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September 19, 2023

Washington State Department of Ecology
Toxics Cleanup Program
3190 160th Avenue SE
Bellevue, Washington 98008-5452

Attention: Donna Musa

Subject: MTCA Notification of Discovery of Historic Hazardous Substance Release at the following Property:

King County Tax Parcel ID: 7000100360
Sound Transit – East Link E320 South Bellevue Station (EL111)
2700 Bellevue Way SE
Bellevue, Washington 98004
GeoEngineers File No. 4082-071-00

INTRODUCTION

This letter provides notification to the Washington State Department of Ecology (Ecology) of the discovery of a historical hazardous substance release and cleanup of fill soil during construction of the East Link South Bellevue Station located at 2700 Bellevue Way SE (this parcel is also identified as 2500 Bellevue Way SE in environmental documents attached to this letter). This notification is submitted in accordance with release reporting requirements of Model Toxics Control Act (MTCA) Washington Administrative Code (WAC) 173-340-300.

The current property owner contact is as follows:

- Name: Ross Stainsby, Sr. Environmental Planner, Sound Transit
- Mailing address: 401 S. Jackson Street, Seattle, WA 98104-2826
- Email address: ross.stainsby@soundtransit.org
- Phone number: 206-553-3607

BACKGROUND

Supporting documents attached to this letter and referenced in this Background summary include the following:



- Environmental Site Assessment Data Report, Sound Transit East Link E320, WSDOT South Bellevue Park and Ride, EL111, East Link South Bellevue Station, Bellevue, Washington. Prepared by GeoEngineers, Inc., July 15, 2015.
- Independent Remedial Action and Drilled Shaft Observation Report, South Bellevue Station (EL111), 2500 Bellevue Way SE, Bellevue, Washington. Prepared by INNOVEX Environmental Management, June 18, 2019.

Prior to construction of the East Link South Bellevue Station which began in 2017, environmental studies identified possible demolition debris and imported fill of unknown origin on the property. The fill is believed to have been deposited when the parcel was developed as a park and ride lot in the 1980s.

In 2015 environmental investigation was performed on the parcel (GeoEngineers 2015) that included 11 soil borings advanced to depths ranging between 2 and 23 feet below ground surface (bgs). The investigation identified the presence of widespread fill with select samples exhibiting carcinogenic polycyclic aromatic hydrocarbons (cPAHs) and lube oil concentrations less than MTCA cleanup levels. cPAHs were also detected in two native soil samples during the investigation. In one boring, lube oil range hydrocarbons were identified at depths of 7 to 8 and 14 to 15 feet bgs at concentrations greater than the MTCA cleanup level of 2,000 milligrams per kilogram (mg/kg).

Limited groundwater sampling performed in 2015 included chemical analysis of petroleum hydrocarbons, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), priority pollutant metals, cyanide, pH and flash point. Total arsenic was the only analyte detected in groundwater samples analyzed at concentrations ranging from 5 micrograms per liter ($\mu\text{g/l}$) to 43 $\mu\text{g/l}$, concentrations that exceed the MTCA cleanup level of 5 $\mu\text{g/l}$.

In 2017, environmental investigation performed by the construction contractor included 13 test pits with soil sampling to depths up to 16 feet bgs. Polycyclic aromatic hydrocarbons (PAHs) were detected in three of 15 soil samples analyzed at concentrations exceeding MTCA cleanup levels. No other contaminants (petroleum hydrocarbons and VOCs) exceeding MTCA cleanup levels were reported. These data were not summarized in a report; however, chemical analytical data packages for the 2017 soil sampling are included as an attachment to the Innovex 2019 report.

Also in 2017, a contaminated debris soil area encountered during construction for the parking garage was remediated as part of an Independent Remedial Action. Confirmation soil samples indicated the presence of cPAHs in two of four confirmation soil samples at concentrations greater than MTCA Method A cleanup levels.

Ten drilled shafts were completed in 2017 across the parcel as part of the East Link guideway construction. Shafts were completed in the locations where lube oil and cPAHs were previously detected in investigation soil samples. Drill spoils were visually screened for evidence of contamination and potentially contaminated soils from two of the shafts were segregated for off-site disposal.



In total, 1,523 tons of impacted and contaminated soil were disposed of as part of the Independent Remedial Actions performed during construction (disposal of soil from two drilled shafts and one debris area). Conclusions from the remedial actions reported by INNOVEX were that cPAH concentrations in soil above the MTCA Method A cleanup level remain in the northern portion of the site (contaminated debris soil area) which is now covered by the parking garage, an access drive and landscaping. No groundwater was encountered during remedial actions.

The property also has an Initial Investigation No Further Action dated September 4, 2018 from a gasoline UST decommissioning performed during construction. The UST was located in the south-central portion of the former Park and Ride facility. This incident is documented in Ecology records: ERTS 678301, FSID 267786, CSID 14727.

Based on the investigations and remedial actions performed and the presence of the garage and link light rail, parking and landscaping areas capping the parcel, Sound Transit is prepared to execute an environmental covenant for the area of the property where contamination remains in support of a property-specific no further action and requests Ecology's concurrence with the site closure.

Sincerely,
GeoEngineers, Inc.



Marsi M. Beeson
Senior Environmental Scientist



Dana L. Carlisle PE
Principal

MMB:DLC:ch

Attachments:

Environmental Site Assessment Data Report, Sound Transit East Link E320, WSDOT South Bellevue Park and Ride, EL111, East Link South Bellevue Station, Bellevue, Washington. Prepared by GeoEngineers, Inc., July 15, 2015
Independent Remedial Action and Drilled Shaft Observation Report, South Bellevue Station (EL111), 2500 Bellevue Way SE, Bellevue, Washington. Prepared by INNOVEX Environmental Management, June 18, 2019

cc:

Ross Stainsby, Sr. Environmental Planner, Sound Transit

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



**Environmental Site Assessment Data Report,
Sound Transit East Link E320, WSDOT South Bellevue
Park and Ride, EL111, East Link South Bellevue Station,
Bellevue, Washington. Prepared by GeoEngineers, Inc.,
July 15, 2015**



Environmental Site Assessment Data Report

Sound Transit - East Link Alignment E320
WSDOT South Bellevue Park and Ride, EL111
East Link South Bellevue Station
Bellevue, Washington

for

Sound Transit

July 15, 2015



GEOENGINEERS 
Earth Science + Technology

Environmental Site Assessment Data Report

Sound Transit - East Link Alignment E320
WSDOT South Bellevue Park and Ride, EL111
East Link South Bellevue Station
Bellevue, Washington

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**Environmental Site Assessment Data Report
Sound Transit - East Link Alignment E320
WSDOT South Bellevue Park and Ride, EL111
East Link South Bellevue Station
Bellevue, Washington**

File No. 4082-044-01

July 15, 2015

Prepared for:

Sound Transit, Inc.
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Seattle, Washington 98104-2826

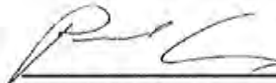
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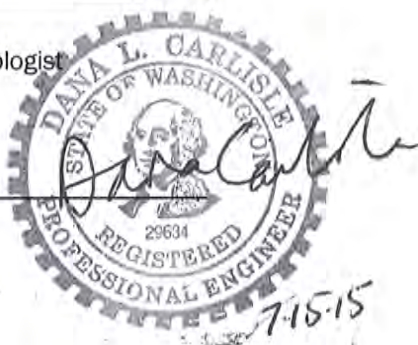
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1.0 INTRODUCTION AND BACKGROUND

This report presents the results of the environmental site assessment completed for Sound Transit at the Washington State Department of Transportation (WSDOT) Park and Ride site (EL111), the future East Link South Bellevue Station ("site"). The site location is shown on Figure 1.

GeoEngineers completed due diligence studies for Sound Transit for the E320 contract segment which includes the site. Subsurface investigations were recommended for the site to evaluate the potential for contamination in soil or groundwater that could affect right-of-way acquisition, project design or construction, as presented in the following due diligence reports:

- "Alignment Hazardous Materials Report, Sound Transit East Link E320 and a Portion of E335, Interstate 90 to SE 1st Place, Bellevue, Washington," dated January 8, 2015
- "Phase I Environmental Site Assessment, Sound Transit East Link E320, EL111 - King County Tax Parcel 7000100360, WSDOT Park and Ride, 2700 Bellevue Way SE, Bellevue, Washington," dated February 12, 2015

A single-family residence and greenhouse were constructed on the site in 1922 (see Figure 2 for approximate locations). The house reportedly used oil heat, but no information was identified by Phase I ESA research to confirm where the residential heating oil tank was located.

In the 1980s the site was developed into a park and ride lot; surface water runoff from the paved areas flows to an existing stormwater pond located on the site (Figure 2). Based on use of the site as a park and ride, the findings of due diligence indicated a potential that oil or other automotive fluids may have leaked, spilled or otherwise been released onto the parking lot at times in the past and may have flowed into the stormwater collection features on the site.

Previous geotechnical borings at the site noted fill that included possible demolition debris, described as fragments of wood, brick, and/or asphalt. The source(s) of fill imported to the site in the past were not identified during the recent Phase I ESA.

Six monitoring wells were installed on the property as part of the previous geotechnical investigation. One of the wells, identified as B-B-BPR-8p, is located in an area known as DWR #2 where significant dewatering will occur during construction. Well B-B-BPR-8P has a screened interval between 35 and 45 feet below ground surface (bgs).

Based on our recent discussion with Sound Transit and review of available 100 percent design plans for E320, the following construction activities are planned within EL111:

- Substantial dewatering in the area of the existing stormwater pond, as noted above.
- Construction of drilled shafts for track structure (up to 90 feet bgs).
- Construction of parking structure (mass excavation up to 16.5 feet bgs and piles up to 80 feet bgs).
- Expansion of the existing stormwater pond to include excavation up to 3 feet bgs in the base of the existing pond and 10 feet bgs on the sides of the existing pond. A detention pond will be constructed at the location of the existing stormwater pond. The footprint of the detention pond will be larger than the existing pond.

The scope of this site assessment was developed to evaluate the following potential environmental concerns that may affect future Sound Transit construction activities:

- Fill material to be excavated;
- Sediment excavation at the existing stormwater pond; and,
- Disposal considerations for groundwater generated during future dewatering activities at DWR #2.

2.0 CONTAMINANTS OF CONCERN

2.1. Fill Material

The specific source(s) of fill imported to the site in the past is unknown; typical contaminants associated with fill of unknown origin and demolition debris are: petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), metals, polychlorinated biphenyls (PCBs), and asbestos and pH related to building materials.

The chemical analytical data for samples obtained during this investigation were compared to the respective Model Toxics Control Act (MTCA) Method A unrestricted land use (ULU) levels for soil. MTCA Method B cleanup levels were used for analytes where MTCA Method A cleanup levels are not established. Detected concentrations of metals also were compared to naturally occurring background metals concentrations in Puget Sound region soil (Washington State Department of Ecology [Ecology], 1994). Soil screening criteria are included in Tables 1 through 3.

2.2. Sediment in Stormwater Pond

Potential contaminants in soil/sediment associated with the existing stormwater pond are related to stormwater runoff that may have been impacted by vehicle fluids or agricultural chemicals. Specific contaminants of concern include petroleum hydrocarbons, PAHs, metals, pesticides and herbicides. The chemical analytical data for samples obtained during this investigation were compared to the same criteria as described in Section 2.1 Fill Material.

2.3. Groundwater/DWR #2

Based on the findings of due diligence, there is a potential for groundwater at the site to be impacted by contaminants associated with fill or with potentially contaminated soil. Sound Transit plans extensive dewatering during future construction activities at the site. Groundwater quality at the site was evaluated during this investigation for construction planning purposes. We understand that this information may be used by Sound Transit's contractors to determine the most cost-effective options for discharge/disposal of construction dewatering fluids, and related permitting considerations. A discharge plan for dewatering fluids has not yet been developed. Typical options for water discharge/disposal are permitted discharge to a sanitary sewer and discharge to surface water under a National Pollutant Discharge Elimination System (NPDES) permit.

Criteria for construction dewatering discharge to the King County Metro sanitary sewer and to surface water were reviewed and typical analytes were tested for in the groundwater samples obtained from the site during this investigation. Groundwater analytical results were compared in this report to the respective sewer discharge criteria and the lowest of the surface water discharge criteria, as explained below. Additionally, MTCA cleanup levels were identified for potential groundwater contaminants of concern and

used as screening levels in this study to determine if groundwater is likely to be contaminated from a release reportable under MTCA.

The surface water criteria listed in Table 4 of this report include the following:

- United States Environmental Protection Agency (EPA) National Toxic Rule (NTR) Code of Federal Regulations 40 CFR Part 131. Based on our experience, the EPA NTR criteria are applicable to construction sites with NPDES construction stormwater permits
- Washington Administrative Code (WAC) Chapter 173-201A, Water Quality Standards for Surface Waters of the State of Washington for fresh water
- MTCA surface water criteria (Method B)
- Federal Clean Water Act (CWA) Section 304

The most conservative (lowest) of the surface water criteria in Table 4 are shown in Table 5, which also includes the groundwater analytical results, MTCA groundwater cleanup levels, and King County sewer discharge criteria.

3.0 CRITERIA

For purposes of this project, soil was characterized as follows based on the presence and concentration of contaminants of concern in representative samples obtained from the explorations:

- Impacted Soil: Soil containing detectable concentrations of contaminants that are less than applicable cleanup levels, specifically MTCA Method A Cleanup Levels for Unrestricted Land Use, or other relevant cleanup levels established by state, local, or federal regulation, law, or permit condition, if no Method A level has been developed. Impacted soil is not considered contaminated, but may be subject to restrictions or conditions for end use at off-site facilities.
- Contaminated Soil: Soil containing concentrations of contaminants greater than applicable cleanup levels such as MTCA Method A Cleanup Levels for Unrestricted Use, or other relevant cleanup levels established by state, local, or federal regulation, law, or permit condition, if no Method A level has been developed.

4.0 SCOPE OF SERVICES

The purpose of this investigation is to evaluate the potential for releases of hazardous substances to have impacted soil and/or groundwater that may be encountered during Sound Transit construction activities at the site. The investigation was not designed to characterize the vertical and/or lateral extent of impacted and/or contaminated soil, if any, at the site.

The scope of our Investigation services is listed below.

1. Reviewed available geotechnical reports and 90 percent design plans completed for the site.
2. Communicated with Sound Transit representatives regarding the planned excavation depths for the expanded stormwater pond and foundation plans for the track structure and parking garage.
3. Developed a health and safety plan for use by our field representatives in accordance with WAC 296-24.

4. Coordinated the marking of subsurface utilities at the exploration locations by notifying the one-call locate service for utilities located in the right-of-way and a private utility locate service for on-site utilities.
5. Retained a drilling subcontractor to advance 12 direct-push soil borings, and 2 hollow-stem auger borings completed as monitoring wells to evaluate soil and groundwater conditions in areas that will be excavated.
6. Obtained continuous core soil samples from each of the direct-push explorations and obtained soil samples at approximately 2.5- to 5-foot depth intervals from the hollow-stem auger borings. Field screened the soil samples for evidence of petroleum and volatiles using visual, water sheen and headspace vapor screening methods. Visually classified the samples in general accordance with ASTM D 2488 and maintained a detailed log of each boring.
7. Submitted soil samples for chemical analysis of one or more of the following: petroleum hydrocarbon identification by Northwest Method NWTPH-HCID with follow-up petroleum quantification testing, as needed, using NWTPH methods, Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6000/7000 series, PAHs by EPA Method 8270D/SIM and VOCs by EPA Method 8260.
8. Advanced three hand augers to a depth of approximately 2 feet bgs within the existing stormwater pond to evaluate potential impacts to surface and near surface soil/sediment in the pond from stormwater runoff.
9. Submitted pond sediment samples for chemical analysis of diesel- and lube oil-range petroleum hydrocarbons by NWTPH-Dx, gasoline-range petroleum hydrocarbons by NWTPH-Gx, RCRA metals by EPA Method 6000/7000, PAHs by EPA Method 8270D/SIM, organochlorine pesticides by EPA Method 8081A and chlorinated acid herbicides by EPA Method 8151A.
10. Developed the two new groundwater monitoring wells prior to sampling to stabilize the sand pack and formation materials surrounding the well screen, and restore the hydraulic connection between the well screen and the surrounding soil.
11. Collected two rounds of groundwater samples from the two new monitoring wells (DWR2-MW1 and DWR2-MW2) and one existing monitoring well (B-B-BPR-8p) using low-flow purging and sampling methodology.
12. Submitted six groundwater samples for the following chemical analyses: petroleum hydrocarbon identification by Northwest Method NWTPH-HCID; priority pollutant metals (total arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc) by EPA Methods 200.7/245.1; VOCs by EPA Method 624; SVOCs by EPA Method 625; pH by EPA Method SM 4500-H B; cyanide amenable by SM 4500 CN-G; and closed cup flash point by ASTM D 93 PMCC.
13. Evaluated the soil and groundwater sampling field and chemical analytical data relative to MTCA cleanup levels or surface water/sewer discharge criteria.

5.0 SUBSURFACE EXPLORATIONS AND SAMPLING

5.1. General

The explorations consisted of three hand auger borings, twelve direct-push soil borings and two hollow-stem auger borings completed as monitoring wells. The field explorations were completed between February 28 and March 7, 2015. Subsurface exploration logs and the field exploration program are presented in Appendix A. The Site Investigation Plan is presented in Appendix B. Subsurface exploration locations relative to existing site features are shown on Figure 2. Subsurface exploration locations relative to Sound Transit construction plans are shown on Figure 3.

The subsurface explorations were monitored by a representative of GeoEngineers who visually classified and performed field screening tests on soil samples collected from the subsurface explorations for evidence of petroleum and volatiles. Subsurface conditions and field screening results are shown on the subsurface exploration logs presented in Appendix A.

Soil and groundwater samples were submitted to OnSite Environmental Laboratories (OnSite) in Redmond, Washington for chemical analysis. The soil chemical analytical results are summarized in Tables 1 through 3. The groundwater chemical analytical results are summarized in Table 5. Copies of the laboratory reports are presented in Appendix C.

Based on geotechnical borings completed at the site, subsurface conditions generally consist of fill overlying the following geologic units: recessional outwash consisting of dense to very dense, sandy gravel with occasional cobbles (Qvro); glacial till consisting of very dense silty fine to coarse sand with fine to coarse gravel (Qvt); pre-Vashon lacustrine deposits consisting of silt and clay with trace gravel (Qpnl); and pre-Vashon fluvial deposits consisting of silty fine sand and fine sand (Qpnf).

Fill soils observed in the explorations generally were fine to medium sand with gravel and silt, or fine to medium sand with silt and occasional gravel. The fill ranged up to about 5 feet in thickness in borings advanced on the south side of the site (EL111-DP1 through EL111-DP5) and up to about 23 feet in thickness in borings advanced on the north side of the site (EL111-DP6 through EL111-DP12). The fill was presumed to have been imported during construction of the park and ride facility. Construction debris, which was identified in subsurface investigations completed during the previous geotechnical investigation, was not observed in the subsurface explorations completed for this investigation. Native soils observed in the explorations generally consisted of interbedded layers of silty sand, silt, and peat with occasional roots.

Groundwater was measured on March 6, 2015 in monitoring wells constructed at DWR2-MW1 and DWR2-MW2 at elevations of approximately 27.3 feet (8.2 feet bgs) and 24.2 feet (1.3 feet bgs), respectively. DWR2-MW1 is screened between approximately 5 and 25 feet bgs, and DWR2-MW2 is screened between approximately 3 and 18 feet bgs. Groundwater was measured in existing monitoring well B-B-BPR-8p on March 6, 2015 at an elevation of approximately 31 feet (0.8 feet bgs). According to geotechnical reports provided by Sound Transit, the screened interval in B-B-BPR-8p is between approximately 35 feet and 45 feet bgs. The reader is referred to the geotechnical report for the site prepared for Sound Transit for details regarding hydrogeologic conditions (Shannon & Wilson's "Package E320, Geotechnical Design Memorandum GD-2, Geologic and Hydrogeologic Characterization," report dated June 5, 2014).

5.2. Future Parking Garage and Track Areas

5.2.1. Subsurface Explorations

Direct-push borings EL111-DP1 through EL111-DP11 were completed to evaluate fill in the future parking garage and track areas that will be excavated during construction activities at the site. The direct-push borings were advanced to depths ranging from approximately 5 to 25 feet bgs. The borings were advanced to at least a 1 foot below the observed fill/native soil contact, with the exception of boring EL111-DP6, which was advanced to refusal within fill at approximately 13.5 feet bgs.

Seven of the direct-push borings (EL111-DP1 through EL111-DP3, EL111-DP5 and EL111-DP7 through EL111-DP9) were advanced at future parking garage pile locations. Four of the direct-push borings (EL111-DP4, EL111-DP6, EL111-DP10 and EL111-DP11) were advanced within the footprint of the elevated track in the area of the proposed drilled shafts. Borings EL111-DP3 and EL111-DP8 were located in the vicinity of the former greenhouse and house to evaluate potential contamination related to historic heating oil use.

Continuous-core soil samples were collected from each direct-push boring. Discrete soil samples at approximately 2 to 3 feet bgs and at approximate 5 foot depth intervals thereafter were collected for field screening and possible chemical analysis. After the completion of drilling and soil sampling, the direct-push borings were abandoned in accordance with State regulations. Physical evidence of petroleum or volatiles was not observed in soil samples collected from the 12 direct push borings.

Hollow-stem auger boring, DWR2-MW1, was completed to evaluate fill and groundwater conditions in an area of proposed excavation. Boring DWR2-MW1 was advanced to approximately 25 feet bgs to collect soil samples at 5-foot depth intervals. Physical evidence of petroleum or volatiles was not observed in soil samples collected from this boring.

5.2.2. Chemical Analytical Results (Table 1)

A total of 27 soil samples collected from direct-push and hollow-stem auger borings were submitted for chemical analysis of gasoline-, diesel- and lube oil-range petroleum hydrocarbons, VOCs, PAHs and/or RCRA metals.

Total Petroleum Hydrocarbons

Lube oil-range petroleum hydrocarbons were detected at concentrations greater than the MTCA cleanup level (2,000 milligrams per kilogram [mg/kg]) in two soil samples from EL111-DP10:

- The fill sample from 7 to 8 feet bgs (2,700 mg/kg)
- The native soil sample from 14 to 15 feet bgs (3,200 mg/kg)

Based on our interpretation of the chemical analytical data from EL111-DP-10 and the soil boring logs, it is possible that either a release of petroleum hydrocarbons occurred at or near EL111-DP10 that contaminated both fill and native soil beneath the fill, or that contaminated fill brought onto the site may have impacted native soil over which it was placed.

Lube oil-range petroleum hydrocarbons were detected at concentrations less than the MTCA cleanup level in soil samples from three of the borings:

- EL111-DP6: The fill sample from 2 to 3 feet bgs (270 mg/kg) and the fill sample from 12 to 13 feet bgs (1,200 mg/kg)
- EL111-DP8: The fill sample from 2 to 3 feet bgs (190 mg/kg)
- EL111-DP9: The fill sample from 2 to 3 feet bgs (130 mg/kg)

Gasoline- and diesel-range petroleum hydrocarbons were not detected in the soil samples analyzed.

VOCs

Benzene was detected in only one of the soil samples tested (DWR2-MW1-18.5-20), but at a concentration significantly less than the MTCA cleanup level. Although the detection was in a native soil sample from a depth of approximately 18.5 to 20 feet bgs, benzene was not detected in the fill sample from the same boring at a depth interval between approximately 5 and 5.5 feet bgs.

Three VOC analytes (2-butanone, acetone and/or carbon disulfide) were detected in 21 of the 25 samples submitted for chemical analysis; the detected concentrations were significantly less than the corresponding MTCA Method B cleanup levels. These three compounds are common laboratory contaminants.

Other VOCs were not detected in the remaining soil samples analyzed. PAHs

PAHs (both non-carcinogenic and carcinogenic) were detected in seven of the direct-push/augered borings in this area; in each case, detected concentrations were less than the corresponding MTCA cleanup levels. See Table 1 for a summary of the analytes detected. The following is a list of the borings with detectable concentrations of PAHs and the depths at which the impacted soil samples were obtained:

- DWR2-MW1: The fill sample from 5 to 5.5 feet bgs
- EL111-DP1: The native soil sample from 5 to 6 feet bgs
- EL111-DP6: The fill sample from 12 to 13 feet bgs
- EL111-DP7: The native soil sample from 7 to 8 feet bgs
- EL111-DP8: The fill sample from 2 to 3 feet bgs
- EL111-DP10: The fill sample from 7 to 8 feet bgs and the native soil sample from 14 to 15 feet bgs
- EL111-DP11: The fill sample from 22 to 23 feet bgs

Metals

Metals either were not detected or were detected at concentrations less than the respective MTCA cleanup levels and/or Puget Sound region background concentrations in the soil samples analyzed.

5.3. Future Detention Pond Area

5.3.1. Subsurface Explorations

Three hand augers (EL111-HA1 through EL111-HA3) were completed to evaluate potential stormwater runoff impacts to existing stormwater pond sediment. The sampling data may be used for waste profiling/end use considerations. The hand augers were advanced within the stormwater pond to approximately 2 feet bgs. Soil samples were collected from each hand auger at approximate 0.5 foot depth intervals. The hand auger borings were backfilled after sample collection using soil cuttings from the boring.

Slight to heavy sheens were observed during water sheen screening of pond sediment samples at EL111-HA2 from approximately 0 to 1 foot bgs. Physical evidence of volatiles was not observed in soil samples collected from the hand auger borings.

Direct-push boring, EL111-DP12, was completed within the expansion footprint of the future detention pond area to evaluate possible contaminants in fill to be excavated. The direct-push boring was advanced to a depth of approximately 10 feet bgs, a depth which corresponds to approximately 3 feet below the observed fill/native soil contact. Physical evidence of petroleum or volatiles was not observed in soil samples collected from EL111-DP12.

Hollow-stem auger boring, DWR2-MW2, was completed to evaluate fill in an area of the future detention pond excavation. DWR2-MW2 was advanced to approximately 18 feet bgs. Soil samples were collected at 5-foot depth intervals. Physical evidence of petroleum or volatiles was not observed in soil samples collected from DWR2-MW2.

5.3.2. Chemical Analytical Results (Tables 2 and 3)

Seven pond sediment samples collected from the hand augers advanced within the existing stormwater pond were submitted for chemical analysis of gasoline-, diesel- and lube oil-range petroleum hydrocarbons, PAHs, RCRA metals, organochlorine pesticides and/or chlorinated acid herbicides (see Table 2). A total of four soil samples were collected from borings DWR2-MW2 and EL111-DP12, within the expanded footprint of the proposed stormwater pond. Soil samples from these two borings were submitted for chemical analysis of gasoline-, diesel- and lube oil-range petroleum hydrocarbons, VOCs, PAHs and/or RCRA metals. (See Table 3)

Total Petroleum Hydrocarbons

Lube oil-range petroleum hydrocarbons were detected at concentrations greater than the MTCA cleanup level (2,000 mg/kg) in two pond sediment samples:

- EL111-HA-2-0-0.5 (8,000 mg/kg), collected between 0 and 0.5 feet bgs in hand auger HA2;
- EL111-HA-3-1.5-2 (2,400 mg/kg), collected between 1.5 and 2 feet bgs in hand auger HA3

Lube oil-range petroleum hydrocarbons were detected in the remaining pond sediment samples submitted for chemical analysis, but at concentrations less than the MTCA cleanup level. Gasoline- and diesel-range petroleum hydrocarbons were not detected in the pond sediment samples analyzed.

Petroleum hydrocarbons were not detected in samples obtained from DWR2-MW2 or EL111-DP12.

VOCs

2-Butanone and/or acetone were detected at concentrations less than the respective MTCA criteria in soil samples from DWR2-MW2 or EL111-DP12. 2-Butanone and acetone are common laboratory contaminants.

VOCs were not analyzed in the pond sediment samples.

PAHs

cPAHs were detected at a concentration (0.21 mg/kg) greater than the MTCA Method A cleanup level of 0.1 mg/kg in pond sediment sample, EL111-HA2-0.5-1, collected between approximately 0.5 and 1 feet bgs at hand auger EL111-HA2. cPAHs and/or PAHs were detected at concentrations less than the MTCA cleanup levels in soil samples submitted for chemical analysis from EL111-HA1 (1.5 to 2 feet bgs) and EL111-HA3 (0 to 0.5 feet bgs). cPAHs and PAHs were not detected in soil samples from DWR2-MW2 or EL111-DP12.

Metals

Lead was detected at concentrations less than the MTCA Method A cleanup level (250 mg/kg), but greater than the naturally occurring Puget Sound region background concentration (24 mg/kg) in two pond sediment samples, EL111-HA-2-0-0.5 and EL111-HA-2-0.5-1, collected between 0 and 1 feet bgs in hand auger EL111-HA2. Lead either was not detected or was detected at concentrations less than the MTCA cleanup level and Puget Sound region background concentration in the remaining analyzed pond sediment samples.

Other metals were either not detected or were detected at concentrations less than the respective MTCA cleanup levels and Puget Sound region background concentration in the remaining analyzed pond sediment samples.

Organochlorine Pesticides

Organochlorine pesticides (4-4-DDD and 4-4-DDE) were detected in five sediment samples collected from the three hand augers at depths ranging between the base of the pond and 2 feet bgs, but at concentrations that are significantly less than the MTCA Method B cleanup levels for the analytes. Other pesticides were not detected in the sediment samples analyzed.

Chlorinated Acid Herbicides

Chlorinated acid herbicides were not detected in the analyzed pond sediment samples.

5.4. Groundwater Dewatering at DWR #2

5.4.1. Monitoring Well Installation

Borings DWR2-MW1 and DWR2-MW2 were completed as permanent monitoring wells screened within the shallow aquifer. The well screen at DWR2-MW1 was installed between approximately 5 and 25 feet bgs. The well screen at DWR2-MW2 was installed between approximately 3 and 18 feet bgs.

The two new monitoring wells were developed at least 72 hours prior to groundwater sampling. Well development for the new monitoring wells was completed to remove water that may have been introduced into the well during drilling, to stabilize the filter pack and formation materials surrounding the well screen, and to restore the hydraulic connection between the well screen and the surrounding soil. Well installation and development methodology are summarized in Appendix A.

5.4.2. Groundwater Sampling

Two rounds of groundwater samples was collected from the two new wells (DWR2-MW1 and DWR2-MW2) and the existing monitoring well (B-B-BPR-8p) on March 6 and May 6, 2015. Depth to groundwater was measured and recorded upon initiation of sampling at each well using an electronic water level indicator. No visible sheen was observed on the groundwater during sampling activities. Groundwater purging and sample collection were completed using low-flow/low-turbidity sampling techniques to minimize the suspension of sediment in the samples. Groundwater was removed from the wells for purging and sampling using disposable polyethylene tubing and a peristaltic pump at a rate of 0.5 liters per minute or less.

A water quality measuring system (i.e., Horiba U-22) with a flow-through cell was used to monitor water quality parameters during purging including pH, electrical conductivity, dissolved oxygen, temperature, and oxidation-reduction potential. Turbidity was measured using a separate turbidimeter (Hach 2100P or LaMotte 2020e). Samples were collected from the wells after the water quality parameter measurements varied by less than 10 percent on three consecutive, 3-minute interval readings. The water quality parameters measured in the field were documented on field logs.

5.4.3. Chemical Analytical Results – Groundwater (Table 5)

Groundwater samples were collected from DWR2-MW1, DWR2-MW2 and B-B-BPR-8p on March 6, and May 6, 2015 and submitted for chemical analysis of total petroleum hydrocarbons, VOCs, SVOCs, priority pollutant metals, cyanide, pH, and flash point. The purpose of the testing was to provide groundwater quality data for Sound Transit's use in evaluating options for future discharge/disposal of groundwater generated during construction dewatering activities at the site. Groundwater analytical results are summarized in Table 5; analytical data reports are included in Appendix C. The groundwater results were compared to MTCA cleanup levels, surface water criteria and sanitary sewer discharge criteria, as discussed below.

MTCA Groundwater Cleanup Levels

Total arsenic was the only analyte detected in groundwater samples obtained from the site on March 6 and May 6, 2015 that exceeded the MTCA cleanup level. Concentrations of arsenic in groundwater samples collected from two wells (B-B-BPR-8p and DWR2-MW1) exceeded the MTCA cleanup level of 5 micrograms per liter ($\mu\text{g/L}$) as follows during the March and May events respectively:

- B-B-BPR-8p (12 $\mu\text{g/L}$ on both sample dates)
- DWR2-MW1 (34 and 43 $\mu\text{g/L}$).

The concentration of arsenic detected in the groundwater samples collected on March 6, 2015 from well DWR2-MW2 was 5.0 $\mu\text{g/L}$, which is equal to the cleanup level.

Surface Water Criteria

The following analytes were detected in the March and May 2015 groundwater samples at concentrations greater than the lowest surface water criteria:

- The concentration of arsenic in each of the three groundwater samples was greater than the lowest surface water criteria of 0.018 $\mu\text{g/L}$.

- Dissolved oxygen (DO) was measured using field instruments (see Appendix A). Groundwater DO concentrations at each of the three monitoring wells were 2.4 milligrams per liter (mg/L) and did not meet the minimum value of 9.5 mg/L for surface water.

King County Sewer Discharge Criteria

The March and May 2015 groundwater chemical analytical results from the three monitoring wells met King County sewer (Metro) discharge criteria summarized in Table 5.

6.0 CONCLUSIONS

6.1. Future Parking Garage and Track Areas

Eleven direct-push borings were completed in the parking garage and track areas. Impacted or contaminated soil were identified in eight of the borings (EL111-DP1, EL111-DP6, EL111-DP7, EL111-DP8, EL111-DP9, EL111-DP10, EL111-DP11 and DWR2-MW1) in the parking garage and track areas.

The concentrations of lube oil-range petroleum hydrocarbons in two soil samples from EL111-DP10 at approximate depths of 7 to 8 feet bgs and 14 to 15 feet bgs were greater than MTCA cleanup levels. Soil represented by these two samples is considered contaminated. The source of the petroleum-contaminated soil in boring EL111-DP10 is not known; however the contaminated soil extends into the native material, which was observed at approximately 13 feet bgs in the boring.

The concentrations of lube oil-range petroleum hydrocarbons and/or cPAH-s were less than corresponding MTCA cleanup levels in eight soil samples collected from seven different borings (DWR2-MW1, EL111-DP1, EL111-DP6, EL111-DP7, EL111-DP8, EL111-DP9 and EL111-DP11) at depths ranging between 2 and 23 feet bgs and benzene was detected in DWR2-MW1 at a depth 18.5 to 20 feet bgs at a concentration less than the MTCA cleanup level. Soil represented by these samples is considered impacted.

Chemical analytical testing and field screening observations did not indicate the presence of heating oil contamination in soil in the samples tested.

The borings with detectable concentrations of lube oil-range petroleum hydrocarbons, cPAHs, PAHs and/or benzene are indicated on Figure 3 (see explorations marked with a prominent red label). This includes all of the borings completed in the northern portion of the site and one boring (EL111-DP1) located in the southeast corner of the site.

6.2. Future Detention Pond Area

Sound Transit plans to construct a detention pond by expanding the existing stormwater pond, which would include soil excavation up to 3 feet bgs in the existing pond and 10 feet bgs on the perimeter of the existing pond. The results of this investigation indicate that sediment within the existing stormwater pond is contaminated with lube oil-range petroleum hydrocarbons and cPAHs. Lube oil-range petroleum hydrocarbons were detected at concentrations greater than the MTCA Method A cleanup level in pond sediment samples collected from hand auger HA2 between 0 to 0.5 feet bgs and hand auger HA3 between 1.5 and 2 feet bgs. cPAHs were detected at a concentration greater than the MTCA Method A cleanup level in the sample collected from hand auger HA2 from between 0.5 and 1 feet bgs. The vertical extent of the petroleum and cPAH-contaminated soil was not identified however it likely extends to the depth of the sediment accumulated in the base of the pond.

6.3. Groundwater Dewatering at DWR #2

Substantial dewatering is planned in the area of the proposed detention pond. Total arsenic concentrations in the groundwater samples were equal to or greater than the MTCA Method A cleanup level. The total arsenic concentrations in the groundwater samples were greater than the lowest applicable surface water criteria, but less than King County sanitary sewer disposal criteria. The dissolved oxygen level was lower than the minimum surface water criteria.

7.0 LIMITATIONS

GeoEngineers has performed this environmental site assessment completed for Sound Transit at the Washington State Department of Transportation (WSDOT) park and ride facility. This report has been prepared for use by Sound Transit. Our services were completed in accordance with Work Order 21 and Contract No. RTA/LR 164-09 B. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix D titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.

Table 1

Summary of Soil Chemical Analytical Results¹ - Future Parking Garage and Track Areas

WSDOT South Bellevue Park & Ride, EL111

Sound Transit East Link Alignment E320

Bellevue, Washington

Boring Identification	DWR2-MW1		EL111-DP1		EL111-DP2		EL111-DP3		EL111-DP4		EL111-DP5		EL111-DP6		MTCA Method A ULU Cleanup Level	Naturally Occurring Background Metals in Puget Sound Soils ¹²	
Sample Identification ²	DWR2- MW1-5-5.5	DWR2- MW1-18.5-20	EL111- DP1-2-3	EL111- DP1-5-6	EL111- DP2-2-3	EL111- DP2-4.5-5.5	EL111- DP3-2-3	EL111- DP3-4.5-5.5	EL111- DP4-2-3	EL111- DP4-4-5	EL111- DP5-2-3	EL111- DP5-5-6	EL111- DP6-2-3	EL111- DP6-12-13			
Sample Depth (feet bgs)	5 to 5.5	18.5 to 20	2 to 3	5 to 6	2 to 3	4.5 to 5.5	2 to 3	4.5 to 5.5	2 to 3	4 to 5	2 to 3	5 to 6	2 to 3	12 to 13			
Water Sheen Screening	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
Headspace Vapors (ppm)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
Criteria Designation	Impacted	Not Impacted	Not Impacted	Impacted	Not Impacted	Not Impacted	Not Impacted	Not Impacted	Not Impacted	Not Impacted	Not Impacted	Not Impacted	Impacted	Impacted			
Soil Designation	Fill	Native	Fill	Native	Fill	Native	Fill	Native	Fill	Native	Fill	Native	Fill	Fill			
NWTPH-HCID ³ (mg/kg)																	
Gasoline-Range Petroleum Hydrocarbons	22 U	26 U	22 U	28 U	22 U	24 U	22 U	23 U	22 U	24 U	24 U	22 U	22 U	23 U	30/100 ⁹	N/A	
Diesel-Range Petroleum Hydrocarbons	55 U	64 U	55 U	70 U	54 U	61 U	55 U	58 U	54 U	60 U	59 U	55 U	54 U	56 U	2,000		
Lube Oil-Range Petroleum Hydrocarbons	110 U	130 U	110 U	140 U	110 U	120 U	110 U	120 U	110 U	120 U	120 U	110 U	DET	DET	2,000		
NWTPH-Dx ⁴ (mg/kg)																	
Diesel-Range Petroleum Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--	--	--	27 U	140 U	2,000	N/A
Lube Oil-Range Petroleum Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--	--	--	270	1,200	2,000	
VOCs ⁵ (mg/kg)																	
Tetrachloroethene (PCE)	0.00070 U	0.00077 U	0.00062 U	0.00084 U	0.00063 U	0.00070 U	0.00058 U	0.00077 U	0.00058 U	0.00075 U	0.00076 U	0.00064 U	0.00067 U	0.00063 U	0.05	N/A	
Trichloroethene (TCE)	0.00070 U	0.00077 U	0.00062 U	0.00084 U	0.00063 U	0.00070 U	0.00058 U	0.00077 U	0.00058 U	0.00075 U	0.00076 U	0.00064 U	0.00067 U	0.00063 U	0.03		
Benzene	0.00070 U	0.00090	0.00062 U	0.00084 U	0.00063 U	0.00070 U	0.00058 U	0.00077 U	0.00058 U	0.00075 U	0.00076 U	0.00064 U	0.0013 U	0.0013 U	0.03		
2-Butanone (MEK) ⁶	0.0047	0.020	0.0031 U	0.010	0.0031 U	0.0035 U	0.0029 U	0.0038 U	0.0029 U	0.0038 U	0.0038 U	0.0032 U	0.0034 U	0.010	48,000 ¹⁰		
Acetone ⁶	0.034	0.12	0.0031 U	0.068	0.015	0.018	0.0039	0.0099	0.0052	0.0083	0.0038 U	0.0039	0.014	0.056	72,000 ¹⁰		
Carbon Disulfide ⁶	0.00070 U	0.00077 U	0.00062 U	0.00084 U	0.00063 U	0.00070 U	0.00058 U	0.00077 U	0.00058 U	0.00075 U	0.00076 U	0.00064 U	0.00067 U	0.00063 U	8,000 ¹⁰		
PAHs ⁷ (mg/kg)																	
Naphthalenes	0.0074 U	0.0085 U	0.0073 U	0.028	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0090	5	N/A	
Acenaphthene	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U	4,800 ¹⁰		
Anthracene	0.0074 U	0.0085 U	0.0073 U	0.028	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U	24,000 ¹⁰		
Benzo[g,h,i]perylene	0.0088	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0088	NE		
Fluoranthene	0.0074 U	0.0085 U	0.0073 U	0.04	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U	3,200 ¹⁰		
Fluorene	0.0074 U	0.0085 U	0.0073 U	0.027	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U	3,200 ¹⁰		
Phenanthrene	0.0074 U	0.0085 U	0.0073 U	0.12	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.028	NE		
Pyrene	0.0074 U	0.0085 U	0.0073 U	0.024	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.025	2,400 ¹⁰		
Carcinogenic PAHs ⁷ (mg/kg)																	
Benzo (a) anthracene (TEF 0.1)	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.028	MTCA ULU cleanup level for the sum of all cPAHs is 0.1 mg/kg	N/A	
Benzo (a) pyrene (TEF 1)	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0079			
Benzo (b) fluoranthene (TEF 0.1)	0.009	0.0085 U	0.0073 U	0.0093	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.012			
Benzo (J,k) fluoranthene (TEF 0.1)	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U			
Chrysene (TEF 0.01)	0.011	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.031			
Dibenz (a,h) anthracene (TEF 0.1)	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U			
Indeno (1,2,3-cd) pyrene (TEF 0.1)	0.0074 U	0.0085 U	0.0073 U	0.0093 U	0.0073 U	0.0081 U	0.0074 U	0.0078 U	0.0072 U	0.0080 U	0.0078 U	0.0073 U	0.0073 U	0.0075 U			
TTEC of cPAHs	0.0062	ND	ND	0.0075	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	0.1		
Metals ⁸ (mg/kg)																	
Arsenic	11 U	13 U	11 U	14 U	11 U	12 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	11 U	20	7	
Barium	54	62	42	160	47	85	49	44	52	64	110	65	41	57	16,000 ¹⁰	NE	
Cadmium	0.55 U	0.64 U	0.55 U	0.70 U	0.54 U	0.61 U	0.55 U	0.58 U	0.54 U	0.60 U	0.59 U	0.55 U	0.54 U	0.56 U	2	1	
Chromium	38	44	26	70	35	45	33	24	35	36	61	32	31	63	2,000 ¹¹	48	
Lead	5.5 U	24	5.5 U	18	5.4 U	6.1 U	5.5 U	5.8 U	5.4 U	6.0 U	6.2	5.5 U	5.4 U	5.6 U	250	24	
Mercury	0.28 U	0.32 U	0.27 U	0.35 U	0.27 U	0.30 U	0.28 U	0.29 U	0.27 U	0.30 U	0.29 U	0.27 U	0.27 U	0.28 U	2	0.07	
Selenium	11 U	13 U	11 U	14 U	11 U	12 U	11 U	12 U	11 U	12 U	12 U	11 U	11 U	11 U	400 ¹⁰	NE	
Silver	1.1 U	1.3 U	1.1 U	1.4 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	400 ¹⁰	NE	

Boring Identification	EL111-DP7		EL111-DP8		EL111-DP9		EL111-DP10			EL111-DP11				MTCA Method A ULU Cleanup Level	Naturally Occurring Background Metals in Puget Sound Soils ¹²
Sample Identification ²	EL111- DP7-2-3	EL111- DP7-7-8	EL111- DP8-2-3	EL111- DP8-4.5-5.5	EL111- DP9-2-3	EL111- DP9-8-9	EL111- DP10-2-3	EL111- DP10-7-8	EL111- DP10-14-15	EL111- DP11-2-3	EL111- DP11-12-13	EL111- DP11-22-23	EL111- DP11-23-24		
Sample Depth (feet bgs)	2 to 3	7 to 8	2 to 3	4.5 to 5.5	2 to 3	8 to 9	2 to 3	7 to 8	14 to 15	2 to 3	12 to 13	22 to 23	23 to 24		
Water Sheen Screening	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
Headspace Vapors (ppm)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Criteria Designation	Not Impacted	Impacted	Impacted	Not Impacted	Impacted	Not Impacted	Not Impacted	Contaminated	Contaminated	Not Impacted	Not Impacted	Impacted	Not Impacted		
Soil Designation	Fill	Native	Fill	Native	Fill	Native	Fill	Fill	Native	Fill	Fill	Fill	Native		
NWTPH-HCID ³ (mg/kg)															
Gasoline-Range Petroleum Hydrocarbons	22 U	23 U	21 U	23 U	22 U	24 U	--	23 U	23 U	22 U	22 U	23 U	--	30/100 ⁹	N/A
Diesel-Range Petroleum Hydrocarbons	54 U	57 U	53 U	58 U	54 U	60 U	--	56 U	150 U	56 U	55 U	57 U	--	2,000	
Lube Oil-Range Petroleum Hydrocarbons	DET	110 U	DET	120 U	DET	120 U	--	DET	DET	110 U	110 U	110 U	--	2,000	
NWTPH-Dx ⁴ (mg/kg)															
Diesel-Range Petroleum Hydrocarbons	27 U	--	27 U	--	27 U	--	--	480 U	510 U	--	--	--	--	2,000	N/A
Lube Oil-Range Petroleum Hydrocarbons	54 U	--	190	--	130	--	--	2,700	3,200	--	--	--	--	2,000	
VOCs ⁵ (mg/kg)															
Tetrachloroethene (PCE)	0.00071 U	0.00065 U	0.00069 U	0.00088 U	0.00066 U	0.00069 U	--	0.00077 U	0.00069 U	0.00064 U	0.00038 U	0.00062 U	--	0.05	N/A
Trichloroethene (TCE)	0.00071 U	0.00065 U	0.00069 U	0.00088 U	0.00066 U	0.00069 U	--	0.00077 U	0.00069 U	0.00064 U	0.00038 U	0.00062 U	--	0.03	
Benzene	0.0014 U	0.0013 U	0.0014 U	0.0018 U	0.0013 U	0.0014 U	--	0.0015 U	0.0014 U	0.0013 U	0.00076 U	0.0012 U	--	0.03	
2-Butanone (MEK) ⁶	0.0035 U	0.0032 U	0.0034 U	0.0044 U	0.0052	0.0046	--	0.017	0.014	0.0032 U	0.0046	0.0037	--	48,000 ¹⁰	
Acetone ⁶	0.0072	0.018	0.0034 U	0.021	0.029	0.057	--	0.094	0.083	0.0032 U	0.033	0.025	--	72,000 ¹⁰	
Carbon Disulfide ⁶	0.00071 U	0.00065 U	0.00069 U	0.00088 U	0.00066 U	0.00069 U	--	0.0011	0.0010	0.00064 U	0.00038 U	0.00062 U	--	8,000 ¹⁰	
PAHs ⁷ (mg/kg)															
Naphthalenes	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.046	0.047	0.0074 U	0.0074 U	0.0076 U	0.0080 U	5	N/A
Acenaphthene	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.0076	0.0090	0.0074 U	0.0074 U	0.0076 U	0.0080 U	4,800 ¹⁰	
Anthracene	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.0075 U	0.0076 U	0.0074 U	0.0074 U	0.0076 U	0.0080 U	24,000 ¹⁰	
Benzo[g,h,i]perylene	0.0072 U	0.0076 U	0.0096	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.019	0.016	0.0074 U	0.0074 U	0.0076 U	0.0080 U	NE	
Fluoranthene	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.026	0.025	0.0074 U	0.0074 U	0.011	0.0080 U	3,200 ¹⁰	
Fluorene	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.011	0.012	0.0074 U	0.0074 U	0.0076 U	0.0080 U	3,200 ¹⁰	
Phenanthrene	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.10	0.094	0.0074 U	0.0074 U	0.019	0.0080 U	NE	
Pyrene	0.0072 U	0.0076 U	0.0076	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.072	0.068	0.0074 U	0.0074 U	0.019	0.0080 U	2,400 ¹⁰	
Carcinogenic PAHs ⁷ (mg/kg)															
Benzo (a) anthracene (TEF 0.1)	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.014	0.015	0.0074 U	0.0074 U	0.0076 U	0.0080 U	MTCA ULU cleanup level for the sum of all cPAHs is 0.1 mg/kg	N/A
Benzo (a) pyrene (TEF 1)	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.012	0.013	0.0074 U	0.0074 U	0.0076 U	0.0080 U		
Benzo (b) fluoranthene (TEF 0.1)	0.0072 U	0.0076 U	0.0096	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.023	0.021	0.0074 U	0.0074 U	0.0076 U	0.0080 U		
Benzo (J,k) fluoranthene (TEF 0.1)	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.0075 U	0.0076 U	0.0074 U	0.0074 U	0.0076 U	0.0080 U		
Chrysene (TEF 0.01)	0.0072 U	0.012	0.022	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.07	0.068	0.0074 U	0.0074 U	0.022	0.0080 U		
Dibenz (a,h) anthracene (TEF 0.1)	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.0075 U	0.0076 U	0.0074 U	0.0074 U	0.0076 U	0.0080 U		
Indeno (1,2,3-cd) pyrene (TEF 0.1)	0.0072 U	0.0076 U	0.0071 U	0.0077 U	0.0072 U	0.0080 U	0.0073 U	0.0075 U	0.0084	0.0074 U	0.0074 U	0.0076 U	0.0080 U		
TTEC of cPAHs	ND	0.0058	0.0062	ND	ND	ND	ND	0.018	0.019	ND	ND	0.0059	ND	0.1	
Metals ⁸ (mg/kg)															
Arsenic	11 U	11 U	11 U	11 U	11 U	12 U	--	11 U	11 U	11 U	11 U	11 U	--	20	7
Barium	34	39	63	47	57	71	--	46	54	44	50	54	--	16,000 ¹⁰	NE
Cadmium	0.54 U	0.57 U	0.53 U	0.57 U	0.54 U	0.60 U	--	0.56 U	0.57 U	0.56 U	0.55 U	0.57 U	--	2	1
Chromium	25	23	45	34	57	54	--	30	38	44	36	50	--	2,000 ¹¹	48
Lead	5.4 U	5.7 U	17	5.7 U	11	6.0 U	--	5.6 U	16	5.6 U	5.5 U	18	--	250	24
Mercury	0.27 U	0.29 U	0.27 U	0.29 U	0.27 U	0.30 U	--	0.28 U	0.29 U	0.28 U	0.28 U	0.28 U	--	2	0.07
Selenium	11 U	11 U	11 U	11 U	11 U	12 U	--	11 U	11 U	11 U	11 U	11 U	--	400 ¹⁰	NE
Silver	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	--	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	--	400 ¹⁰	NE

Notes on next page

Notes:

¹Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Sample ID = Area number - boring number - starting depth of sample [feet bgs] -end depth [feet bgs], EL111 Boring 1 collected 2-3 feet bgs = EL111-DP1-2-3.

³ Northwest method NWTPH-HCID.

⁴ Northwest method NWTPH-Dx.

⁵ Volatile organic compounds (VOCs) analyzed by United States Environmental Protection Agency (EPA) method 8260B. Only detected analytes shown. See lab report in Appendix C for full list of analytes.

⁶ Acetone, 2-Butanone and Carbon Disulfide are common laboratory contaminants.

⁷ Polycyclic aromatic hydrocarbons (PAHs) and carcinogenic PAHs (cPAHs) analyzed by EPA method 8270D/SIM. Only detected analytes shown. See lab report in Appendix C for full list of analytes.

⁸ Resource Conservation Recovery Act (RCRA) metals analyzed by EPA 6000/7000 series method.

⁹ Model Toxics Control Act (MTCA) Method A cleanup level for gasoline is 30 mg/kg if benzene is detected or if the sum of toluene, ethylbenzene and xylenes are greater than or equal to 1% of the total gasoline detection.

¹⁰ MTCA Method B cleanup level used because Method A cleanup level has not been established.

¹¹MTCA Method A cleanup level for Trivalent Chromium.

¹² 90th Percentile for natural background soil metals concentrations in Puget Sound region, Department of Ecology, publication #94-115, dated October 1994.

– = not tested

ULU = unrestricted land use

NE = not established

< = less than

mg/kg = milligrams per kilogram

bgs = below ground surface

DET = detected greater than laboratory reporting limits

ppm = parts per million

MTCA = Model Toxics Control Act

N/A = not applicable

ND = not detected

U = Analyte was not detected at or greater than the listed reporting limit.

NS = no sheen

TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2.

TTEC = total toxicity equivalent concentration; the sum of each individual cPAH concentration multiplied by its corresponding TEF. If the analyte was not detected, 1/2 of the analyte's reporting limit was used for the calculation.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates that the detected concentration is greater than the respective MTCA cleanup level.

Table 2
Summary of Chemical Analytical Results¹ - Future Detention Pond Area (Hand Auger Borings)
WSDOT South Bellevue Park & Ride, EL111
Sound Transit East Link Alignment E320
Bellevue, Washington

Boring Identification	EL111-HA1		EL111-HA2			EL111-HA3		MTCA Method A ULU Cleanup Level	Naturally Occurring Background Metals in Puget Sound Soils ¹²
Sample Identification ²	EL111- HA-1-0-0.5	EL111- HA-1-1.5-2	EL111- HA-2-0-0.5	EL111- HA-2-0.5-1	EL111- HA-2-1-1.5	EL111- HA-3-0-0.5	EL111- HA-3-1.5-2		
Sample Depth (feet bgs)	0 to 0.5	1.5 to 2	0 to 0.5	0.5 to 1	1.5 to 2	0 to 0.5	1.5 to 2		
Water Sheen Screening	NS	NS	HS	SS	NS	NS	NS		
Headspace Vapors (ppm)	<1	<1	<1	<1	<1	<1	<1		
Soil Designation	Pond Sediment								
NWTPH-Gx ³ (mg/kg)									
Gasoline-Range Petroleum Hydrocarbons	12 U	59 U	23 U	14 U	13 U	22 U	62 U	30/100 ⁹	N/A
NWTPH-Dx ⁴ (mg/kg)									
Diesel-Range Petroleum Hydrocarbons	83 U	250 U	1100 U	150 U	130 U	110 U	360 U	2,000	N/A
Lube Oil-Range Petroleum Hydrocarbons	360	1,800	8,000	1,200	820	630	2,400	2,000	
PAHs ⁵ (mg/kg)									
Benzo[g,h,i]perylene	--	0.043 U	--	0.15	--	0.019 U	--	NE	
Fluoranthene	--	0.080	--	0.39	--	0.024	--	3,200 ¹⁰	
Phenanthrene	--	0.068	--	0.24	--	0.025	--	NE	
Pyrene	--	0.074	--	0.36	--	0.026	--	2,400 ¹⁰	
Carcinogenic PAHs ⁵ (mg/kg)									
Benzo (a) anthracene (TEF 0.1)	--	0.043 U	--	0.14	--	0.019 U	--	MTCA ULU cleanup level for the sum of all cPAHs is 0.1 mg/kg	N/A
Benzo (a) pyrene (TEF 1)	--	0.043 U	--	0.15	--	0.019 U	--		
Benzo (b) fluoranthene (TEF 0.1)	--	0.060	--	0.24	--	0.019 U	--		
Benzo (J,k) fluoranthene (TEF 0.1)	--	0.043 U	--	0.091	--	0.019 U	--		
Chrysene (TEF 0.01)	--	0.046	--	0.22	--	0.019 U	--		
Dibenz (a,h) anthracene (TEF 0.1)	--	0.043 U	--	0.070 U	--	0.019 U	--		
Indeno (1,2,3-cd) pyrene (TEF 0.1)	--	0.043 U	--	0.10	--	0.019 U	--		
TTEC of cPAHs	--	0.037	--	0.21	--	ND	--	0.1	
Metals ⁶ (mg/kg)									
Arsenic	17 U	16 U	15 U	10 U	19 U	14 U	16 U	20	7
Barium	100	94	140	76	75	82	91	16,000 ¹⁰	NE
Cadmium	0.86 U	1.6 U	1.5 U	1.0 U	0.93 U	1.4 U	1.6 U	2	1
Chromium	51	16	67	33	35	33	25	2,000 ¹¹	48 ¹⁵
Hexavalent Chromium	--	--	3.0 U	--	--	--	--	19	NE
Lead	12	32 U	73	30	15	14 U	33 U	250	24
Mercury	0.43 U	1.6 U	0.75 U	0.52 U	0.46 U	0.71 U	1.6 U	2	0.07
Selenium	17 U	64 U	30 U	21 U	19 U	28 U	65 U	400 ¹⁰	NE
Silver	1.7 U	6.4 U	3.0 U	2.1 U	1.9 U	2.8 U	6.5 U	400 ¹⁰	NE
Organochlorine Pesticides ⁷ (µg/kg)									
4,4-DDD	190	440	30 U	21 U	37	140	580	4,170 ¹⁰	N/A
4,4-DDE	74	64 U	30 U	21 U	19 U	28 U	65 U	2,940 ¹⁰	
Chlorinated Acid Herbicides ⁸ (µg/kg)									
	ND	ND	ND	ND	ND	ND	ND	N/A	N/A

Notes:

- ¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.
- ² Sample ID = Area number - hand auger number - starting depth of sample [feet bgs] -end depth [feet bgs], EL111 Hand Auger 1 collected 0-0.5 feet bgs = EL111-HA-1-0-0.5.
- ³ Northwest method NWTPH-Gx.
- ⁴ Northwest method NWTPH-Dx.
- ⁵ Polycyclic aromatic hydrocarbons (PAHs) and carcinogenic PAHs (cPAHs) were analyzed by U.S. Environmental Protection Agency (EPA) method 8270D/SIM. Only those analytes detected are shown in this table. See the lab reports in Appendix C for a full list of analytes.
- ⁶ Resource Conservation Recovery Act (RCRA) metals analyzed by EPA 6000/7000 series method.
- ⁷ Organochlorine pesticides analyzed by EPA method 8081A. Only those analytes detected are shown in this table. See the lab reports in Appendix C for a full list of analytes.
- ⁸ Chlorinated acid herbicides analyzed by EPA method 8151A. Only those analytes detected are shown in this table. See the lab reports in Appendix C for a full list of analytes.
- ⁹ MTCA Method A cleanup level for gasoline is 30 mg/kg if benzene is detected or if the sum of toluene, ethylbenzene and xylenes are greater than or equal to 1% of the total gasoline detection.
- ¹⁰ MTCA Method B cleanup level used because Method A cleanup level has not been established.
- ¹¹ MTCA Method A cleanup level for Trivalent Chromium.
- ¹² 90th Percentile for natural background soil metals concentrations in Puget Sound region, Department of Ecology, publication #94-115, dated October 1994.

RL = Reporting Limit

ND = not detected

-- = not tested

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act

U = Analyte was not detected at or greater than the listed reporting limit.

TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2.

µg/kg = micrograms per kilogram

NS = no sheen, SS = slight sheen, HS = heavy sheen

< = less than

ppm = parts per million

N/A = not applicable

TTEC = Calculated total toxicity equivalent concentration; the sum of each individual cPAH concentration multiplied by its corresponding TEF. If the analyte was not detected, 1/2 of the analyte's reporting limit was used for the calculation.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates that the detected concentration is greater than the respective MTCA cleanup level.

Table 3
Summary of Soil Chemical Analytical Results¹ - Future Detention Pond Area
(Hollow-Stem Auger and Direct-Push Borings)
WSDOT South Bellevue Park & Ride, EL111
Sound Transit East Link Alignment E320
Bellevue, Washington

Boring Identification	DWR2-MW2		EL111-DP12		MTCA Method A ULU Cleanup Level	Naturally Occurring Background Metals in Puget Sound Soils ¹¹
Sample Identification ²	DWR2- MW2-2.5-3	DWR2- MW2-16.5-17	EL111- DP12-2-3	EL111- DP12-7-8		
Sample Depth (feet bgs)	2.5 to 3	16.5 to 17	2 to 3	7 to 8		
Water Sheen Screening	NS	NS	NS	NS		
Headspace Vapors (ppm)	<1	<1	<1	<1		
Soil Designation	Fill	Native	Fill	Native		
NWTPH-HCID ³ (mg/kg)						
Gasoline-Range Petroleum Hydrocarbons	24 U	24 U	21 U	24 U	30/100 ⁸	N/A
Diesel-Range Petroleum Hydrocarbons	60 U	60 U	54 U	59 U	2,000	
Lube Oil-Range Petroleum Hydrocarbons	120 U	120 U	110 U	120 U	2,000	
VOCs ⁴ (mg/kg)						
2-Butanone (MEK) ⁵	0.0035 U	0.0031 U	0.0043	0.0033 U	48,000 ⁹	N/A
Acetone ⁵	0.021	0.0056	0.030	0.024	72,000 ⁹	
PAHs ⁶ (mg/kg)						
	ND	ND	ND	ND	N/A	N/A
Carcinogenic PAHs ⁶ (mg/kg)						
TTEC of cPAHs	ND	ND	ND	ND	0.1	N/A
Metals ⁷ (mg/kg)						
Arsenic	12 U	12 U	11 U	12 U	20	7
Barium	100	62	48	54	16,000 ⁹	NE
Cadmium	0.60 U	0.60 U	0.54 U	0.59 U	2.0	1.0
Chromium	51	33	37	43	2,000 ¹⁰	48
Lead	6.1	6.0 U	6.2	8.2	250	24
Mercury	0.30 U	0.30 U	0.27 U	0.30 U	2.0	0.07
Selenium	12 U	12 U	11 U	12 U	400 ⁹	NE
Silver	1.2 U	1.2 U	1.1 U	1.2 U	400 ⁹	NE

Notes:

Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Sample ID = Area number - boring number - starting depth of sample [feet bgs] -end depth [feet bgs], EL111 Boring 1 collected 2-3 feet bgs =EL111-DP1-2-3.

³ Northwest method NWTPH-HCID.

⁴ Volatile organic compounds (VOCs) analyzed by United States Environmental Protection Agency (EPA) method 8260B. Only those analytes detected are shown in this table. See the lab reports in Appendix C for a full list of analytes.

⁵ Acetone and 2-Butanone are common laboratory contaminants.

⁶ Polycyclic aromatic hydrocarbons (PAHs) and carcinogenic PAHs (cPAHs) were analyzed by EPA method 8270D/SIM. The analytes were not detected. See the lab reports in Appendix C for full list of analytes.

⁷ Resource Conservation Recovery Act (RCRA) metals analyzed by EPA 6000/7000 series method.

⁸ Model Toxics Control Act (MTCA) Method A cleanup level for gasoline is 30 mg/kg if benzene is detected or if the sum of toluene, ethylbenzene and xylenes are greater than or equal to 1% of the total gasoline detection.

⁹ MTCA Method B cleanup level used because Method A cleanup level has not been established.

¹⁰ MTCA Method A cleanup level for Trivalent Chromium.

¹¹ 90th Percentile for natural background soil metals concentrations in Puget Sound region, Department of Ecology, publication #94-115, dated October 1994.

ND = not detected NS = no seen < = less than

mg/kg = milligrams per kilogram N/A = not applicable ppm = parts per million

MTCA = Model Toxics Control Act bgs = below ground surface ULU = unrestricted land use

U = Analyte was not detected at or greater than the listed reporting limit.

TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2.

TTEC = Calculated total toxicity equivalent concentration; the sum of each individual cPAH concentration multiplied by its corresponding TEF divided by the number of analytes detected. If only one analyte was detected, 1/2 of the analyte's reporting limit was used for the calculation.

Font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Table 4
Summary of Surface Water Criteria
WSDOT South Bellevue Park & Ride, EL111
Sound Transit East Link Alignment E320
Bellevue, Washington

Analyte	Surface Water Criteria										
	NTR 40 CFR 131 - Criteria ¹			173-201A WAC - Washington State Criteria ²		MTCA Levels ³		Clean Water Act §304 Criteria ⁴			Lowest Applicable Surface Water Criteria (Highlighted in Green)
	Surface Water Aquatic Life Fresh/Acute NTR 40 CFR 131	Surface Water Aquatic Life Fresh/Chronic NTR 40 CFR 131	Surface Water Human Health Fresh Water NTR 40 CFR 131	Surface Water Aquatic Life Fresh/Acute 173-201A WAC	Surface Water Aquatic Life Fresh/Chronic 173-201A WAC	Surface Water Method B (Non Cancer)	Surface Water Method B (Cancer)	Surface Water Aquatic Life Fresh/Acute CWA §304	Surface Water Aquatic Life Fresh/Chronic CWA §304	Surface Water Human Health Fresh Water CWA §304	
NWTPH-HCID (mg/L)											
Gasoline-Range Petroleum Hydrocarbons	NE	NE	NE	No Visible Sheen	No Visible Sheen	NE	NE	NE	NE	NE	No Visible Sheen
Diesel-Range Petroleum Hydrocarbons	NE	NE	NE	No Visible Sheen	No Visible Sheen	NE	NE	NE	NE	NE	No Visible Sheen
Lube Oil-Range Petroleum Hydrocarbons	NE	NE	NE	No Visible Sheen	No Visible Sheen	NE	NE	NE	NE	NE	No Visible Sheen
NWTPH-Dx (mg/L)											
Diesel-Range Petroleum Hydrocarbons	NE	NE	NE	No Visible Sheen	No Visible Sheen	NE	NE	NE	NE	NE	No Visible Sheen
Lube Oil-Range Petroleum Hydrocarbons	NE	NE	NE	No Visible Sheen	No Visible Sheen	NE	NE	NE	NE	NE	No Visible Sheen
VOCs (µg/L)											
Tetrachloroethene (PCE)	NE	NE	0.8	NE	NE	502	99.6	NE	NE	0.69	0.69
Trichloroethene (TCE)	NE	NE	2.7	NE	NE	118	12.8	NE	NE	2.5	2.5
cPAHs (µg/L)											
Benzo (a) anthracene (TEF 0.1)	NE	NE	0.0028	NE	NE	NE	0.296	NE	NE	0.0038	0.0028
Benzo (a) pyrene (TEF 1)	NE	NE	0.0028	NE	NE	NE	0.0296	NE	NE	0.0038	0.0028
Benzo (b) fluoranthene (TEF 0.1)	NE	NE	0.0028	NE	NE	NE	0.296	NE	NE	0.0038	0.0028
Benzo (j,k) fluoranthene (TEF 0.1)	NE	NE	0.0028	NE	NE	NE	2.96	NE	NE	0.0038	0.0028
Chrysene (TEF 0.01)	NE	NE	0.0028	NE	NE	NE	29.6	NE	NE	0.0038	0.0028
Dibenz (a,h) anthracene (TEF 0.1)	NE	NE	0.0028	NE	NE	NE	0.0296	NE	NE	0.0038	0.0028
Indeno (1,2,3-cd) pyrene (TEF 0.1)	NE	NE	0.0028	NE	NE	NE	0.296	NE	NE	0.0038	0.0028
TTEC of cPAHs	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Metals (µg/L)											
Arsenic	360	190	0.018	360	190	17.7	0.0982	340	150	0.018	0.018
Cadmium	3.9	1	NE	0.82	0.37	40.5	NE	2	0.25	NE	0.25
Chromium	15	10	NE	15	10	486	NE	16	11	NE	10
Copper	17	11	NE	4.61	3.47	2,880	NE	13	9	NE	3.47
Lead	65	2.5	NE	13.9	0.54	NE	NE	65	2.5	NE	0.54
Mercury	2.1	0.012	0.14	2.1	0.012	NE	NE	1.4	0.77	NE	0.012
Nickel	1400	160	610	438	48.65	1,100	NE	470	52	610	52
Silver	3.4	NE	NE	0.32	NE	25,900	NE	3.2	NE	NE	0.32
Zinc	110	100	NE	35.4	32.29	16,500	NE	120	120	7,400	32.29
Miscellaneous Parameters											
pH (SU)	NE	NE	NE	6.5 to 8.5		NE	NE	NE	NE	NE	6.5 to 8.5
Dissolved Oxygen (mg/L)	NE	NE	NE	9.5 (Lowest Minimum) ⁵		NE	NE	NE	NE	NE	9.5 (Lowest Minimum) ⁵
Cyanide Amenable (mg/L)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Closed Cup Flash Point (degrees F)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes:

¹ United States Environmental Protection Agency (EPA) National Toxic Rule (NTR) Code of Federal Regulations 40 CFR Part 131; <http://water.epa.gov/lawsregs/rulesregs/ntr/>

² Washington Administrative Code (WAC) Chapter 173-201A WAC, Water Quality Standards for Surface Waters of the State of Washington; <http://apps.leg.wa.gov/WAC/default.aspx?cite=173-201a>

³ WAC Chapter 173-340-730 WAC, Surface Water Cleanup Standards; <http://apps.leg.wa.gov/WAC/default.aspx?cite=173-340-730>

⁴ Federal Clean Water Act (CWA) Section 304

⁵ Mercer Slough is located in the WRIA 8 (Cedar - Sammamish). The area is listed as Core Summer Habitat for Aquatic Use per Table 602 of Water Quality Standards for Surface Water of the State of Washington (Chapter 173-201a WAC). The "Lowest 1-Day Minimum" for Aquatic Life Dissolved Oxygen Criteria in Fresh Water Core Summer Salmonid Habitat is 9.5 mg/L. When a water body's D.O. is lower than the criteria in Table 200 (1)(d) (or within 0.2 mg/L of the criteria) and that condition is due to natural conditions, then human actions considered cumulatively may not cause the D.O. of that water body to decrease more than 0.2 mg/L.

TTEC = Calculated total toxicity equivalent concentration.

MTCA = Model Toxics Control Act

VOCs = Volatile Organic Compounds

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

Green highlighting = Lowest Applicable Surface Water Criteria

SU = standard unit

µg/L = micrograms per liter

mg/L = milligrams per liter

degrees F = degrees Fahrenheit

Table 5
Summary of Chemical Analytical Results¹ - Groundwater
WSDOT South Bellevue Park & Ride, EL111
Sound Transit East Link Alignment E320
Bellevue, Washington

Boring Identification/Sample ID ²	B-B-BPR-8P		DWR2-MW1		DWR2-MW2		Surface Water Criteria	Groundwater Water Criteria	Selected King County Sewer Discharge Criteria	
Sample Date	March 6, 2015	May 6, 2016	March 6, 2015	May 6, 2016	March 6, 2015	May 6, 2016			Daily Average	Instantaneous Maximum
Approximate Depth to Groundwater (feet BTOC) ³	0.81	0.71	8.18	7.77	1.28	1.65	Lowest Applicable Surface Water Criteria (See Table 1)	MTCA Method A Cleanup Level	Daily Average	Instantaneous Maximum
Approximate Well Screen Depth Interval (feet bgs)	35 to 45	35 to 45	5 to 25	5 to 25	3 to 18	3 to 18				
NWTPH-HCID ⁴ (µg/L)										
Gasoline-Range Petroleum Hydrocarbons	100 U	100 U	100 U	100 U	100 U	100 U	No Visible Sheen	800/1,000 ¹³	100,000 ¹⁶	NE
Diesel-Range Petroleum Hydrocarbons	260 U	260 U	DET	260 U	250 U	250 U	No Visible Sheen	500		NE
Lube Oil-Range Petroleum Hydrocarbons	410 U	410 U	410 U	410 U	410 U	410 U	No Visible Sheen	500		NE
NWTPH-Dx ⁵ (µg/L)										
Diesel-Range Petroleum Hydrocarbons	--	--	400	--	--	--	No Visible Sheen	500	100,000 ¹⁶	NE
Lube Oil-Range Petroleum Hydrocarbons	--	--	410 U	--	--	--	No Visible Sheen	500		NE
VOCs ⁵ (µg/L)										
Methylene Chloride	2 U	2 U	2 U	2 U	2 U	5	NE	5	NE	NE
Tetrachloroethene (PCE)	1 U	1 U	1 U	1 U	1 U	1 U	0.69	5	NE	NE
Trichloroethene (TCE)	1 U	1 U	1 U	1 U	1 U	1 U	2.5	5	NE	NE
cPAHs ⁶ (µg/L)										
Benzo (a) anthracene (TEF 0.1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028	MTCA cleanup level for cPAHs is 0.1 µg/L	NE	NE
Benzo (a) pyrene (TEF 1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
Benzo (b) fluoranthene (TEF 0.1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
Benzo (j,k) fluoranthene (TEF 0.1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
Chrysene (TEF 0.01)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
Dibenz (a,h) anthracene (TEF 0.1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
Indeno (1,2,3-cd) pyrene (TEF 0.1)	2 U	2 U	2 U	2 U	2 U	2 U	0.0028		NE	NE
TTEC of cPAHs	ND	ND	ND	ND	ND	ND	NE	0.1	NE	NE
Metals ⁷ (µg/L)										
Arsenic	12	12	34	43	5.0	3.3 U	0.018	5	1,000	4,000
Cadmium	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	0.25	5	500	600
Chromium	11 U	11 U	11 U	11 U	11 U	11 U	10	50 ¹⁴	2,750	5,000
Copper	11 U	11 U	11 U	11 U	11 U	11 U	3.47	320 ¹⁵	3,000	8,000
Lead	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.54	15	2,000	4,000
Mercury	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.012	2	100	200
Nickel	22 U	22 U	22 U	22 U	22 U	22 U	52	320 ¹⁵	2,500	5,000
Silver	11 U	11 U	11 U	11 U	11 U	11 U	0.32	80 ¹⁵	1,000	3,000
Zinc	28 U	28 U	28 U	28 U	28 U	28 U	32.29	4,800 ¹⁵	5,000	10,000

Boring Identification/Sample ID ²	B-B-BPR-8P		DWR2-MW1		DWR2-MW2		Surface Water Criteria	Groundwater Water Criteria	Selected King County Sewer Discharge Criteria	
Sample Date	March 6, 2015	May 6, 2016	March 6, 2015	May 6, 2016	March 6, 2015	May 6, 2016			Daily Average	Instantaneous Maximum
Approximate Depth to Groundwater (feet BTOC) ³	0.81	0.71	8.18	7.77	1.28	1.65	Lowest Applicable Surface Water Criteria (See Table 1)	MTCA Method A Cleanup Level	Daily Average	Instantaneous Maximum
Approximate Well Screen Depth Interval (feet bgs)	35 to 45	35 to 45	5 to 25	5 to 25	3 to 18	3 to 18				
Miscellaneous Parameters										
pH ⁸ (SU)	8.2	8.2	6.3	6.5	7.9	8.0	6.5 to 8.5	NE	Between 5.5 and 12	5 (minimum)
Dissolved Oxygen (mg/L) ⁹	2.4	2.5	2.4	2.4	2.4	1.7	9.5 (Lowest Minimum) ¹²	NE	NE	NE
Cyanide Amenable ¹⁰ (mg/L)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NE	NE	2	3
Closed Cup Flash Point ¹¹ (degrees F)	>200	>200	>200	>200	>200	>200	NE	NE	NE	140.2 (minimum)
Hexane Extractable Material (mg/L)	–	5.3 U	–	5.3 U	–	5.3 U	NE	NE	NE	NE

Notes:

- ¹ Chemical analysis performed by OnSite Environmental, Inc. in Redmond, Washington.
- ² Sample ID = Monitoring well identification-yymmdd (i.e., DWR2-MW1-150306 was a water sample collected from well MW1 on March 3, 2015)
- ³ Groundwater level was measured below the top of the casing in the monitoring wells.
- ⁴ Washington State Department of Ecology (Ecology)-approved method NWTPH-HCID.
- ⁵ Volatile organic compounds (VOCs) were analyzed by Environmental Protection Agency (EPA) Method 624. Only detected analytes shown. See lab report in Appendix B for full list of analytes.
- ⁶ Semivolatile organic compounds (SVOCs) were analyzed by EPA Method 625. Only detected analytes shown. See lab report in Appendix B for full list of analytes.
- ⁷ Metals analyzed by EPA Methods 200.7/245.1
- ⁸ pH analyzed by EPA Method SM 4500- H B
- ⁹ Based on field measurements obtained during sampling.
- ¹⁰ Cyanide analyzed by SM 4500 CN-G.
- ¹¹ Closed cup flash point analyzed by ASTM D 93 PMCC.
- ¹² Mercer Slough is located in the WRIA 8 (Cedar - Sammamish). The area is listed as Core Summer Habitat for Aquatic Use per Table 602 of Water Quality Standards for Surface Water of the State of Washington (Chapter 173-201a WAC). The "Lowest 1-Day Minimum" for Aquatic Life Dissolved Oxygen Criteria in Fresh Water Core Summer Salmonid Habitat is 9.5 mg/L. When a water body's D.O. is lower than the criteria in Table 200 (1)(d) (or within 0.2 mg/L of the criteria) and that condition is due to natural conditions, then human actions considered cumulatively may not cause the D.O. of that water body to decrease more than 0.2 mg/L.
- ¹³ MTCA Method A cleanup level for gasoline-range petroleum hydrocarbons is 800 µg/L if benzene is present and 1,000 µg/L if benzene is not present.
- ¹⁴ MTCA Method A cleanup level for total chromium shown. Cleanup level for hexavalent chromium is 48 µg/L.
- ¹⁵ MTCA Method B cleanup level used because Method A cleanup level has not been established.
- ¹⁶ King County sanitary sewer discharge criteria for nonpolar fats, oil and grease (FOG), including petroleum origin.

MTCA = Model Toxics Control Act

bgs = below ground surface

NE = Not established

DET = Detected greater than laboratory reporting limits

cPAH = Carcinogenic PAHs

BTOC - below top of casing

µg/L = micrograms per liter

mg/L = milligrams per Liter

U = Analyte was not detected

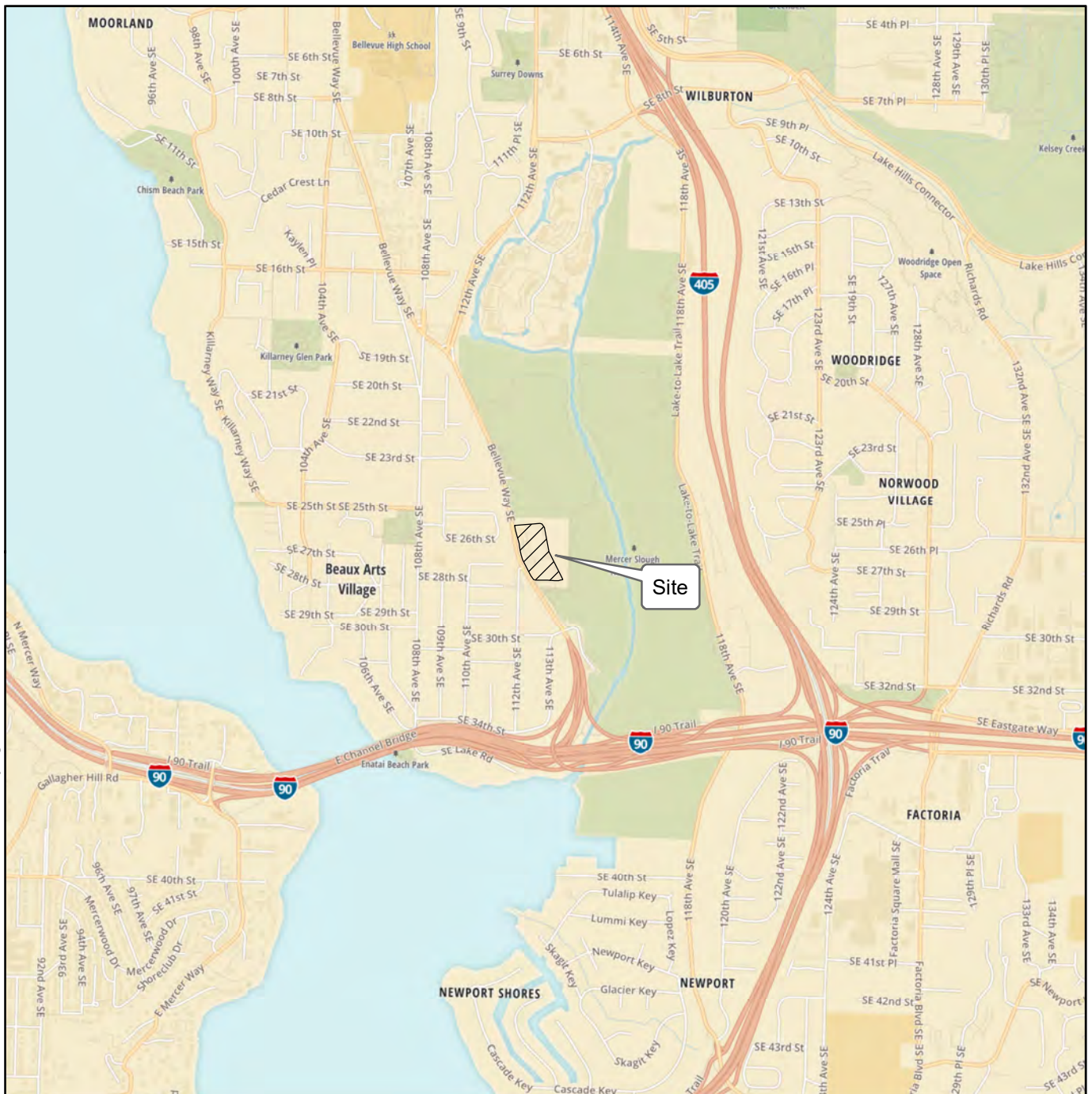
TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2

Total Toxic Equivalent Concentration (TTEC) is the sum of each individual cPAH concentration multiplied by its corresponding TEF. If the analyte was not detected, 1/2 of the analyte's reporting limit was used for the calculation.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates analyte is detected at a concentration greater than the MTCA Method A/B groundwater cleanup level.

Dashed outlined indicates the analyte detected or measured at a concentration that does not meet the lowest applicable surface water criteria.



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north



2,000 0 2,000
Feet

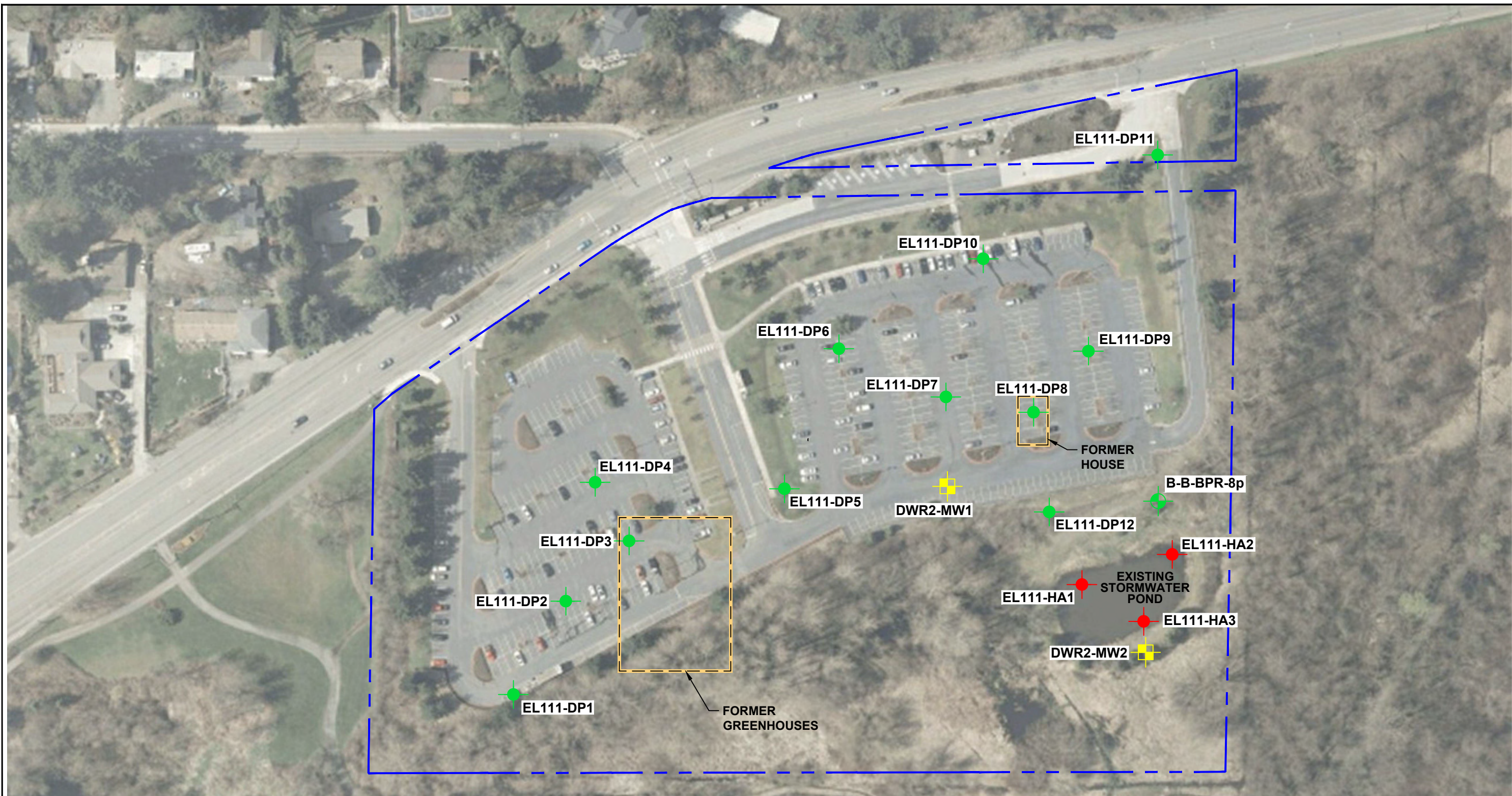
Vicinity Map

Environmental Site Assessment Data Report
Sound Transit - East Link Alignment E320
WSDOT South Bellevue Park & Ride, EL111
Bellevue, Washington



Figure 1

Office: TAC \\TAC\Projects\4\4082044\CAD\CAD Files from ST\03_Sheet Files\408204401_EL111 F2 Data Report.dwg TAB:Figure 2 - Boring locations cvansly/ke July 15, 2015

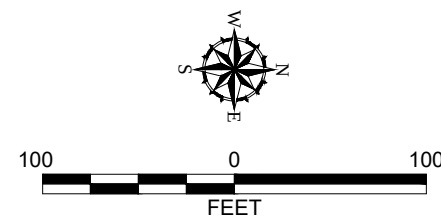


Legend

- DWR2-MW1  New Monitoring Well
- EL111-HA1  Sediment Sample
- B-B-BPR-8p  Existing Monitoring Well
- EL111-DP1  Direct Push Boring
-  Property Boundary

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source:

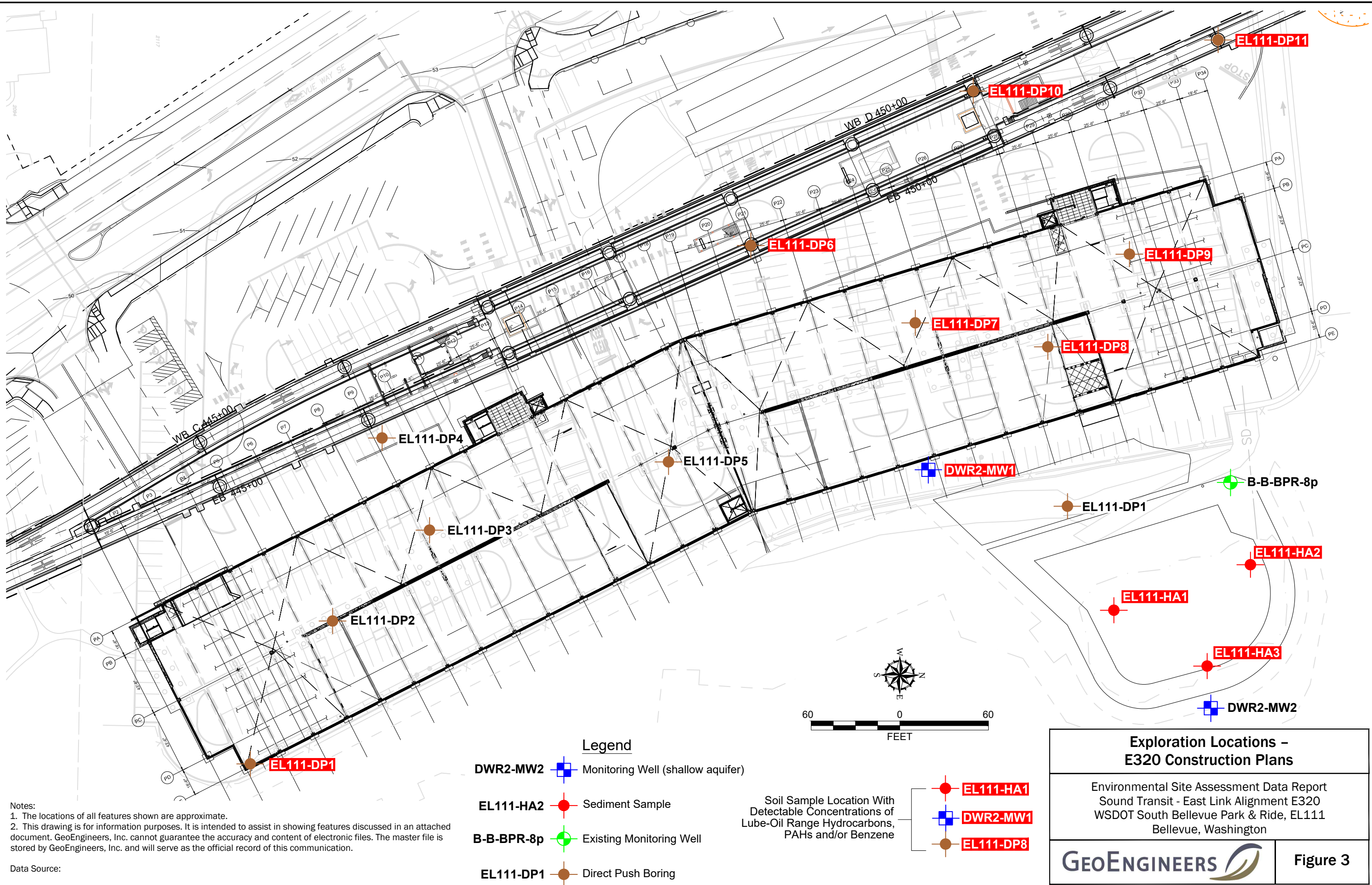


Exploration Locations - Existing Conditions and Former Structures

Environmental Site Assessment Data Report
Sound Transit - East Link Alignment E320
WSDOT South Bellevue Park & Ride, EL111
Bellevue, Washington



Figure 2



APPENDIX A

Field Exploration Program

APPENDIX A

FIELD PROCEDURES AND BORING LOGS

Underground Utility Locate

Prior to drilling activities, an underground utility locate was conducted in the areas of the proposed boring locations to identify subsurface utilities and/or potential underground physical hazards. The underground utility check consisted of contacting a local utility alert service (one-call) and hiring a private utility locating service.

Soil Sampling

Hand-Auger and Hand-Dug Explorations

The hand-auger explorations were completed using a manually operated sampling auger. The auger bucket is approximately 2.5 inches in diameter and 6 inches long and is extended into the ground using a series of 3-foot rods. The auger was advanced into the soil by hand. A representative from our staff selected the exploration locations and observed and classified the soil encountered. Soil in the explorations was visually classified in general accordance with ASTM D 2488-94.

The sampling equipment was decontaminated before each sampling attempt with a Liqui-Nox® wash solution and a distilled water rinse. Soil samples were obtained from continuous cores for field screening and possible chemical analysis.

Soil samples obtained from the hand-auger and hand-dug explorations were collected from the sampler or directly from the exploration with a stainless steel knife, a stainless steel trowel and/or new gloves. A portion of each sample was placed in laboratory-prepared sample jars for possible chemical analysis. The remaining portion of each sample was used for field screening.

The samples collected from the three hand augers were identified using the following identification system: EL111-HA-#[start depth]-[end depth], where EL111 is the EL111 project area, HA-# is the hand auger boring number and start depth-end depth is the depth interval of specific sample (e.g., EL111-HA-1-0-0.5 was collected from the EL111 project area at boring HA1 from 0 to 0.5 feet bgs).

Selected samples from the explorations were submitted for chemical analysis based on field screening results. The soil samples were placed in a cooler with ice for transport to the laboratory. Standard chain-of-custody procedures were followed in transporting the soil samples to the laboratory.

Direct-Push Explorations

The direct-push explorations were completed using direct-push drilling equipment. Soil samples were obtained using a 5-foot-long core sampler. The sampler was driven into the soil using a pneumatic hammer. Upon retrieval, the sampler was opened and a GeoEngineers representative examined the soil and performed field screening tests. The boring logs are presented in Figures A-4 through A-15.

Selected soil samples were obtained in glass jars (supplied by the analytical laboratory), labeled and stored in a cooler with ice pending delivery to the laboratory. VOC samples were collected first, directly from the sample sleeve using the 5035A sampling method. Following the VOC sample collection, the remaining soil was placed in the remaining sample containers provided by the analytical laboratory. All sampling equipment was decontaminated between samples using a Liqui-Nox® wash solution and distilled water rinse.

Soil samples obtained from the direct-push explorations were collected from the sampler with a stainless steel knife, a stainless steel trowel and/or new gloves. A portion of each sample was placed in laboratory-prepared sample jars for possible chemical analysis. The remaining portion of each sample was used for field screening.

The samples collected from the direct-push borings were identified using the following identification system: EL111-DP#[start depth]-[end depth], where EL111 is the EL111 project area, DP# is the direct-push boring number and start depth-end depth is the depth interval of specific sample (e.g., EL111-DP1-2-3 was collected from the EL111 project area at boring DP1 from 2 to 3 feet bgs).

Selected samples from the explorations were submitted for chemical analysis based on field screening results. The soil samples were placed in a cooler with ice for transport to the laboratory. Standard chain-of-custody procedures were followed in transporting the soil samples to the laboratory. Drill cuttings were placed in drums pending disposal.

Hollow Stem-Auger Explorations

Two borings were completed using hollow-stem auger drilling equipment operated by Cascade, Inc. of Woodinville, Washington. Hollow-stem auger drilling was conducted in general accordance with Washington Administrative Code (WAC) 173-760 by a Washington state-licensed drilling company. Discrete soil samples were obtained from the hollow stem-auger exploration locations at approximately 5-foot depth intervals to the base of each exploration using a 2-inch diameter, 18-inch long stainless steel split spoon sampler, driven with 140-pound hammer dropped from a distance of 30 inches. The number of blows needed to advance the sampler the final 12 inches or other specified distance is indicated to the left of the corresponding sample notation on the boring log.

A representative from our staff observed and classified the soil encountered. Soil in the explorations was visually classified in general accordance with ASTM D 2488-94. The boring logs are presented in Figures A-2 through A-3.

The hollow-stem auger borings extended to depths ranging between approximately 18 feet and 25 feet bgs. Using a stainless steel knife and/or new gloves, soil from the middle section of the spit-barrel sampler was placed in containers provided by the testing laboratory for potential chemical analysis. The remaining portion of the sample was placed in a plastic bag for field screening. The sampling equipment was decontaminated before each sampling attempt with a Liqui-Nox® wash solution and a distilled water final rinse.

The samples collected from the hollow-stem auger borings were identified using the following identification system: DWR2-MW#-start depth-end depth, where DWR2 is the dewatering area 2 identifier, MW# is the hollow-stem auger boring number and start depth-end depth is the depth interval of specific sample (e.g., DWR2-MW1-5-5.5 was collected from the DWR2 dewatering area at boring MW1 from 5 to 5.5 feet bgs).

Selected samples from the borings were submitted for chemical analysis based on field screening results. The soil samples were placed in a cooler with ice for transport to the laboratory. Standard chain-of-custody procedures were followed in transporting the soil samples to the laboratory.

Drill cuttings were placed in drums pending disposal.

Groundwater Monitoring Well Installation

Drilling and construction of the monitoring wells was conducted by a Washington State licensed driller in accordance with the Minimum Standards for Construction and Maintenance of Wells (Chapter 173-160 Washington Administrative Code [WAC]). Installation of the monitoring wells was observed by a GeoEngineers representative who maintained a detailed log of the materials and depths of the wells.

A single 8-inch steel casing was used in the shallow aquifer wells as the borings were terminated in the shallow aquifer. The wells were constructed using 2-inch-diameter, flush-threaded Schedule 40 polyvinyl chloride (PVC) casing with machine-slotted PVC screen (0.020 inch). Following placement of the well screen and casing in the borehole, a sand pack was installed around the well screen. Sand pack material consisted of commercially prepared #2/12 silica sand.

A minimum of a 1-foot-thick bentonite seal was placed above the sand pack. The surface of each well was completed with a concrete seal and surface pad extending from the top of the bentonite to slightly above the ground surface. Steel flush-mount monuments were cemented in place.

Field Screening of Soil Samples

Soil samples obtained from the borings were screened in the field for evidence of contamination using: 1) visual examination; 2) sheen screening and 3) vapor headspace screening with a photo-ionization detector (PID). The results of headspace and sheen screening are included in the boring logs and in Tables 1, 2 and 3 for soil samples tested by chemical analysis.

Visual screening consists of inspecting the soil for stains indicative of petroleum-related contamination. Visual screening is generally more effective when contamination is related to heavy petroleum hydrocarbons, such as motor oil or hydraulic oil, or when hydrocarbon concentrations are high. Sheen screening and headspace vapor screening are more sensitive methods that have been effective in detecting contamination at concentrations less than regulatory cleanup guidelines. Sheen screening involves placing soil in a pan of water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen (NS)	No visible sheen on water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly.

Moderate Sheen (MS)	Light to heavy sheen, may have some color/iridescence; spread is irregular to flowing; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic sample bag. Air is captured in the bag and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a PID is inserted in the bag and the instrument measures the concentration of combustible vapor in the air removed from the sample headspace. The PID measures concentrations in ppm (parts per million) and is calibrated to isobutylene. The PID is designed to quantify combustible gas and organic vapor concentrations up to 2,500 ppm. A lower threshold of significance of 1 ppm was used in this application. Field screening results are site-specific and vary with soil type, soil moisture content, temperature and type of contaminant.

Monitoring Well Development

The monitoring wells were developed to stabilize the filter pack and formation materials surrounding the well screens and to establish the hydraulic connection between the well screens and the surrounding soil. The wells were developed using a whale pump. The wells were gently surged and purged with the whale pump starting at the bottom of the well screen interval. Surging continued to the top of the well screen interval. The wells continued to be purged until a minimum of five casing volumes of water were removed and turbidity of the discharged water was relatively low. The goal of well development is to reduce the turbidity content of the water to less than 25 nephelometric turbidity units (NTU). Water that was removed from the well during well development activities was stored in labeled drums at the site.

Low-Flow Sampling

Groundwater samples were obtained using low-flow/low-turbidity sampling techniques to minimize the suspension of particulates in the samples. Groundwater samples were obtained from monitoring wells using a peristaltic pump with disposable tubing. Groundwater was pumped at approximately 0.5 liters per minute from the approximate midpoint of the screened interval. A water quality measuring system with a flow-through-cell was used to monitor the following water quality parameters during purging: electrical conductivity, dissolved oxygen, pH, turbidity, oxidation-reduction potential and temperature. Ambient groundwater conditions were assumed to have been reached once these parameters varied by less than 10 percent on three consecutive measurements. All field measurements were documented on the field logs.

After well purging, the flow-through-cell was disconnected and the groundwater sample was collected in laboratory-prepared containers. The groundwater sample was placed into a cooler with ice and logged on the chain-of-custody record. Purge water was stored in a labeled drum at the site.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
			SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/Quarry Spalls
	TS	Topsoil/Forest Duff/Sod

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Material Description Contact



Distinct contact between soil strata or geologic units



Approximate location of soil strata change within a geologic soil unit

Laboratory / Field Tests

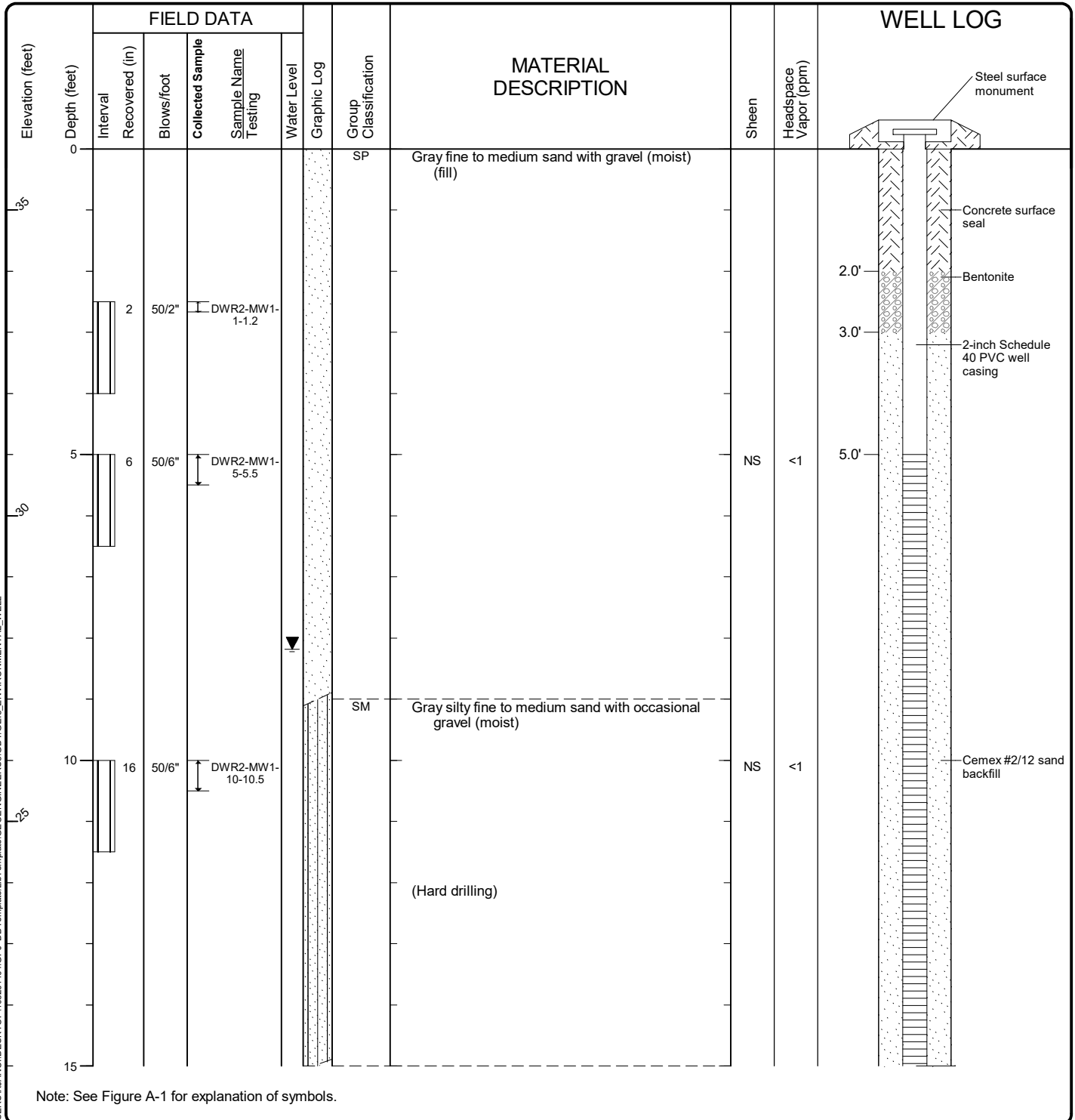
%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

KEY TO EXPLORATION LOGS

Start Drilled 2/28/2015	End 2/28/2015	Total Depth (ft) 25	Logged By Checked By DMS	Driller Cascade	Drilling Method Hollow-Stem Auger
Hammer Data 140 (lbs) / 30 (in) Drop		Drilling Equipment Track Mounted Hollow-Stem Auger LAR		A 2 (in) well was installed on 2/28/2015 to a depth of 25 (ft).	
Surface Elevation (ft) Vertical Datum 36		Top of Casing Elevation (ft) 35.50		Groundwater Date Measured 3/16/2015	
Latitude 47° 35' 12.82" N Longitude 122° 11' 23.19" W		Horizontal Datum Geographic		Depth to Water (ft) 8.2 Elevation (ft) 27.3	
Notes:					



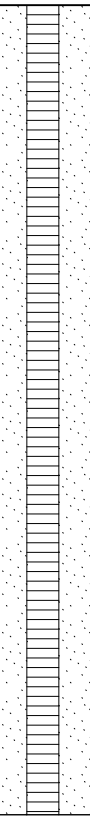
Log of Monitoring Well DWR2-MW1



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-2
 Sheet 1 of 2

Tacoma Date: 4/26/15 Path: C:\Users\KJ\OneDrive\Documents\408204401\GPJ_DB\Template\LOT\template\GEOENGINEERS\GDT\GEIR_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					
15	6	50/6"		DWR2-MW1-15-15.5		Dark brown fine to medium sand with silt and occasional gravel (moist)	NS	<1		25.0'
18	18	60		DWR2-MW1-18.5-20		Becomes wet		<1		
20	18	40		DWR2-MW1-23.5-25		Brown-red peat with stringers of gray fine to medium sand with silt (moist to wet)	NS	<1		
25										

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well DWR2-MW1 (continued)



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-2
 Sheet 2 of 2

Tecoma Date: 4/26/15 Path: C:\Users\KJ\OneDrive\Documents\408204401\GPJ_DB\Template\LOT\template\GEOENGINEERS\GDT\GEIR ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG
	Interval	Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Water Level				
15	5	50/5"		DWR2-MW2-15-15.5			NS	<1	
	6	50/6"		DWR2-MW2-16.5-17			NS	<1	
									18.0'

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well DWR2-MW2 (continued)



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-3
 Sheet 2 of 2

Drilled	Start 3/1/2015	End 3/1/2015	Total Depth (ft)	10	Logged By Checked By	BB	Driller	Cascade	Drilling Method	Direct-Push			
Surface Elevation (ft) Vertical Datum					36		Hammer Data		Drilling Equipment		Track Mounted Hollow-Stem Auger LAR		
Latitude Longitude					47° 35' 08.45" N 122° 11' 20.06" W		System Datum		Geographic		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:													

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0		60						AC	Asphalt concrete pavement	NS	<1	
3								SP	Black fine to medium sand with gravel and trace silt (moist) (fill)			
									Brown fine to medium sand with occasional gravel and trace silt (moist) (fill)			
									Gray fine sand with occasional gravel with trace silt (moist)			
5		60						ML	Gray silt (moist) (native)	NS	<1	
								PT	Brown-red peat with organic debris (moist) (native)			
								ML	Gray silt with ½-inch stringers of brown-red peat (moist) (native)			
10												

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP1



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-4
 Sheet 1 of 1

Start Drilled 3/1/2015	End 3/1/2015	Total Depth (ft) 10	Logged By Checked By BB	Driller Cascade	Drilling Method Direct-Push
Surface Elevation (ft) Vertical Datum 37			Hammer Data		Drilling Equipment Track Mounted Hollow-Stem Auger LAR
Latitude 47° 35' 08.97" N Longitude 122° 11' 21.24" W			System Datum Geographic		Groundwater Date Measured Depth to Water (ft) Elevation (ft)
Notes:					

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Water Level				
Depth (feet)				Sample Name Testing	Graphic Log	Group Classification			
0	60					AC	NS	<1	
						SP			
35				EL111-DP-2-2-3					
						SP-SM			
5	60			EL111-DP-2-4.5-5.5		ML	NS	<1	
						SM			
						PT			
30						ML			
						SM			
10									

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP2



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-5
 Sheet 1 of 1

Drilled	Start 3/1/2015	End 3/1/2015	Total Depth (ft)	10	Logged By Checked By	BB	Driller	Cascade	Drilling Method	Direct-Push			
Surface Elevation (ft) Vertical Datum					38		Hammer Data		Drilling Equipment		Track Mounted Hollow-Stem Auger LAR		
Latitude Longitude					47° 35' 11.15" N 122° 11' 23.02" W		System Datum		Geographic		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:													

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0		48						SM	Brown silty fine to medium sand with fine roots (moist) (fill)	NS	<1	
								SP-SM	Gray fine to medium sand with silt and occasional gravel (moist) (fill)			
35					EL111-DP-5-2-3			SM	Gray to brown fine to coarse sand with gravel (moist) (native)			
5		48			EL111-DP-5-5-6					NS	<1	
60								ML	Light brown silt with sand (moist) (native)			
								SM	Gray silty fine sand with occasional gravel (moist) (native)			
10												

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP5



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-8
 Sheet 1 of 1

Start Drilled 3/7/2015	End 3/7/2015	Total Depth (ft) 10	Logged By Checked By BB	Driller Cascade	Drilling Method Direct-Push
Surface Elevation (ft) Vertical Datum 36			Hammer Data		Drilling Equipment Track Mounted Hollow-Stem Auger LAR
Latitude 47° 35' 14.26" N Longitude 122° 11' 25.01" W			System Datum Geographic		Groundwater Date Measured Depth to Water (ft) Elevation (ft)
Notes:					

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		48								
3							AC	NS	<1	
							SP			
							SP-SM			
5							SP	NS	<1	
3										
							SP-SM			

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP9



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-12
 Sheet 1 of 1

Start Drilled 3/7/2015	End 3/7/2015	Total Depth (ft) 15	Logged By Checked By BB	Driller Cascade	Drilling Method Direct-Push
Surface Elevation (ft) Vertical Datum 39			Hammer Data		Drilling Equipment Track Mounted Hollow-Stem Auger LAR
Latitude 47° 35' 13.18" N Longitude 122° 11' 26.60" W			System Datum Geographic		Groundwater Date Measured Depth to Water (ft) Elevation (ft)
Notes:					

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Water Level Graphic Log	Group Classification			
0	48					AC	NS	<1	
						SP			
						SP-SM			
				EL111-DP-10-2-3					
5	24						NS	<1	
				EL111-DP-10-7-8		SM			
10	24						NS	<1	
				EL111-DP-10-14-15		SM/PT			
15									

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP10



Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

Figure A-13
 Sheet 1 of 1

Tacoma Date: 4/29/15 Path: C:\Users\KJ\OneDrive\Documents\GEOENGINEERS\GDT\GEB\ENVIRONMENTAL_STANDARD DBTemplate\LibTTemplate\GEOENGINEERS\GDT\GEB\ENVIRONMENTAL_STANDARD

Tacoma Date: 4/26/15 Path: C:\Users\KJ\OneDrive\Documents\408204401\GPJ_DB\Template\LOT_Template.GEOENGINEERS.GDT\GEB_ENVIRONMENTAL_STANDARD

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Water Level				
15	40						NS	<1	
20	48					Gray fine to medium sand with silt and occasional gravel	NS	<1	
				EL 111-DP-11-22-23		Becomes wet at 22½ feet			
				EL 111-DP-11-23-24		Gray silt with trace organic debris (roots) (native)			
25									

Note: See Figure A-1 for explanation of symbols.

Log of Direct-Push Boring ELL111-DP11 (continued)



Project: ELINK 320 - EL111 Park and Ride
Project Location: Bellevue, Washington
Project Number: 4082-044-01

Figure A-14
Sheet 2 of 2

APPENDIX B

Site Investigation Plan

To: Mark Menard, Sound Transit
From: Tricia S. DeOme, LG and Dana L. Carlisle, PE
Date: January 28, 2015
File: 4082-044-01
Subject: Site Investigation Plan (SIP)
East Link Alignment E320 – WSDOT South Bellevue Park & Ride, EL111
Bellevue, Washington

Project Information

This Site Investigation Plan (SIP) is for a Phase II Environmental Site Assessment (ESA) to evaluate environmental soil and groundwater conditions at the Washington State Department of Transportation (WSDOT) Park and Ride site (EL111) along Sound Transit's E320 contract section for East Link. The E320 section consists of approximately 2.2 miles of new track extending from the I-90 ramps at the south end of Bellevue Way to SE 1st Place. The EL111 property/WSDOT Park and Ride will be the future South Bellevue Station for East Link.

The site is a park and ride lot with an existing stormwater pond. The park and ride was built/expanded in the 1980s and late 1990s. Based on this use, there is the potential that oil or other automotive fluids leaked, spilled or otherwise were released onto the parking lot at times in the past and may have flowed into the stormwater collection features on the subject property.

An historical single-family residence and greenhouse were constructed on this parcel in 1922. The house reportedly used oil heat, but no information was identified by Phase I ESA research to confirm where the residential heating oil tank was located. Additionally, previous geotechnical borings at the site noted fill that included possible demolition debris described as fragments of wood, brick, and/or asphalt. The source(s) of fill were not identified during the recent Phase I ESA.

Review of Existing Geologic Information

Based on geotechnical borings completed at the Park and Ride site for the E320 project, subsurface conditions are generally anticipated to consist of fill overlying the following geologic units: recessional outwash consisting of dense to very dense, sandy gravel with occasional cobbles (Qvro); glacial till consisting of very dense silty fine to coarse sand with fine to coarse gravel (Qvt); pre-Vashon lacustrine deposits consisting of silt and clay with trace gravel (Qpnl); and pre-Vashon fluvial deposits consisting of silty fine sand and fine sand (Qpnf).

Environmental Explorations, Drilling and Sampling

The purpose of the Phase II ESA subsurface investigation is to evaluate the potential for releases of hazardous substances to have impacted soil and groundwater that may be encountered during Sound Transit construction at EL111. This Phase II ESA subsurface investigation scope was not designed to characterize the vertical and/or lateral extent of impacted and/or contaminated soil at the site; if additional environmental explorations are needed for delineation purposes, they will be proposed under a separate work order.

GeoEngineers will coordinate the utility locate notification request for marking existing underground utilities at and near proposed drilling locations. The Utilities Underground Location Center (One-Call) service will be contacted in accordance with State law. GeoEngineers will subcontract a private underground utility locate

service, Applied Professional Services (APS), to mark underground utilities near proposed drilling locations. If the proposed drilling locations are near marked underground utilities, GeoEngineers will subcontract an air knife (vacuum truck) contractor to verify utilities prior to drilling by excavating at the proposed drilling locations to a depth of approximately 8 feet below ground surface (bgs).

We anticipate the field activities described in this SIP will be completed over five work days; one day for marking proposed boring locations for utility locates and two weekends, assuming working hours that range between 7 am and 6 pm.

- Use a Sound Transit-approved subcontracted driller to complete approximately twelve (12) direct-push borings and two (2) hollow-stem auger borings. The proposed locations of the explorations are shown on the attached drawing, Figure 2. The depth of each boring will extend to just below the corresponding depth of future excavation for that location, to 1 foot below the fill or to refusal, whichever occurs first. Soil samples with visual evidence of impacted fill, debris or field screening indications of possible contamination (e.g., staining, petroleum-like sheen, elevated headspace vapor measurements) may be submitted for chemical analysis.
 - Twelve direct-push borings (DP1 through DP12) are planned to evaluate fill conditions in areas that will be excavated. Continuous-core soil samples will be collected from each exploration. The borings will be backfilled with bentonite in accordance with Washington State Department of Ecology (Ecology) regulations.
 - Four direct-push borings will be completed at station column locations to evaluate potential contamination within the fill for waste profiling/end use considerations. We anticipate the borings will be completed to depths of between approximately 20 and 30 feet bgs.
 - Seven direct-push borings will be completed within the footprint of the future parking garage; two of these borings will be located in the vicinity of a former house and greenhouse to evaluate potential contamination from possible past heating oil storage. We anticipate the borings will be completed to depths of approximately 30 feet bgs.
 - One direct-push boring will be completed within the stormwater pond expansion footprint to evaluate contamination within the fill. We anticipate the boring outside the current pond footprint to be completed to a depth of approximately 12 to 15 feet bgs.
 - Complete two hollow-stem auger borings around the existing pond. The borings will be completed as monitoring wells (DWR2-MW1 and DWR2-MW2) to evaluate groundwater conditions. We anticipate the borings will be completed to depths of approximately 20 feet bgs, with the monitoring well screens set between approximately 5 and 20 feet bgs. Soil samples from the hollow-stem auger borings will be collected at 5-foot depth intervals.
 - Drilling spoils and drilling decontamination water will be placed in drums by the driller. The drums will be stored in a location identified by Sound Transit pending characterization and off-site disposal.
- Up to three samples from each direct-push or hollow-stem auger boring will be submitted for chemical analysis. The selection of samples for chemical analytical testing will be based on the results of field observations and field screening and sample depth in relation to Sound Transit's proposed construction activities.

- Selected soil samples will be submitted to the laboratory for chemical analysis of one or more of the following:
 - Petroleum hydrocarbon identification by Northwest Method NWTPH-HCID and follow-up petroleum quantification testing as needed using NWTPH methods;
 - Resource Conservation and Recovery Act (RCRA) 8 metals by Environmental Protection Agency (EPA) Method 6000/7000 series;
 - Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D/SIM;
 - Volatile organic compounds (VOCs) by EPA Method 8260;
 - Asbestos by EPA-600/R-93/116 where construction debris is observed;
 - pH where construction debris fill is observed; and
 - Polychlorinated biphenyls (PCBs) by EPA Method 8082A will be analyzed as follow-up analysis if mineral oil-range petroleum hydrocarbons are detected.
- Complete three hand augers (GEO-HA-1, GEO-HA-2, and GEO-HA-3) to a depth of approximately 2 feet bgs within the existing stormwater pond to evaluate potential impacts to sediment and near surface soil in the pond from contaminants that may be present in stormwater runoff. The purpose of the sampling is for waste profiling/end use considerations related to future construction activities by Sound Transit. The hand augers will not extend to the full depth of the planned excavation in the area.
 - Two soil samples will be collected from each hand auger.
 - Up to six soil samples will be submitted for chemical analysis of:
 - Diesel and lube oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx with sulfuric acid/silica gel cleanup;
 - Gasoline-range petroleum hydrocarbons by Northwest Method NWTPH-Gx;
 - RCRA (8) metals by EPA Method 6000/7000;
 - Organochlorine pesticides by EPA Method 8081A; and
 - Chlorinated acid herbicides by EPA Method 8151A.
- Develop the two new groundwater monitoring wells prior to sampling to stabilize the sand pack and formation materials surrounding the well screen, and restore the hydraulic connection between the well screen and the surrounding soil. Water that is removed during well development activities will be stored at a WSDOT-approved location on site in drums temporarily before transport off site for disposal.
- Collect two rounds of groundwater samples from an existing monitoring well identified as B-B-BPR-8p and the two new monitoring wells using low-flow purging and sampling methodology. Purge water will be contained in drums with drum handling and storage as noted above.
- Six groundwater samples from two rounds of groundwater samples will be submitted for King County sanitary sewer (Metro) requirements including:
 - Hydrocarbon identification by Northwest Method NWTPH-HCID;
 - Priority pollutant metals (total arsenic, cadmium, chromium, copper, lead, mercury, nickel, silver, zinc) by EPA Methods 200.7/245.1;

- VOCs by EPA Method 624;
- Semivolatile organic compounds (SVOCs) by EPA Method 625;
- pH by EPA Method SM 4500-H B;
- Cyanide amenable by SM 4500 CN-G; and
- Closed cup flash point by ASTM D 93 PMCC.

Summary of Noise Impacts

- The drill rig and support vehicles will generate noise during drilling activities. Noise levels may reach 100 decibels in the immediate vicinity of the drill rig. Noise variances are not expected to be required.
- A well development pump, portable generator, and pickup truck will generate noise during well development.
- A well sampling pump, portable generator, and pickup truck will generate noise during well sampling.

Schedule and Equipment

- Field activities will be completed over four weekend days and one week day, assuming work hours that range between 7 am and 6 pm as summarized in the attached schedule.
 - Private utilities will be marked on Friday, February 27, 2015. The parking stalls will not be blocked to mark utilities.
 - Four days for drilling:
 - The drill crew will mobilize to the site, stage equipment, and install wells DWR2-MW1 and DWR2-MW2 on Saturday, February 28, 2015. Work hours will be between 7 am and 6 pm. Approximately five hours of work time is expected at each well.
 - Borings GEO-DP1, GEO-DP2, GEO-DP3 and GEO-DP4 will be completed on Sunday, March 1, 2015. Work hours will be between 7 am and 6 pm. Approximately two hours of work time is expected for each boring.
 - Borings GEO-DP5, GEO-DP6, GEO-DP7 and GEO-DP8 will be completed on Saturday, March 7, 2015. Work hours will be between 7 am and 6 pm. Approximately two hours of work time is expected for each boring.
 - Borings GEO-DP9, GEO-DP10, GEO-DP11 and GEO-DP12 will be completed on Sunday, March 8, 2015. Work hours will be between 7 am and 6 pm. Approximately two hours of work time is expected for each boring.
 - One day for completing the hand auger borings, to be completed on Sunday, March 1, 2015. Work hours will be between 7 and 9 am. Approximately 0.5 hours of work time is expected at each location.
 - One day for developing the wells DWR2-MW1 and DWR2-MW2, to be completed on Sunday, March 1, 2015. Work hours will be between 7 am and 6 pm. Two to three hours of work time is expected at each well.

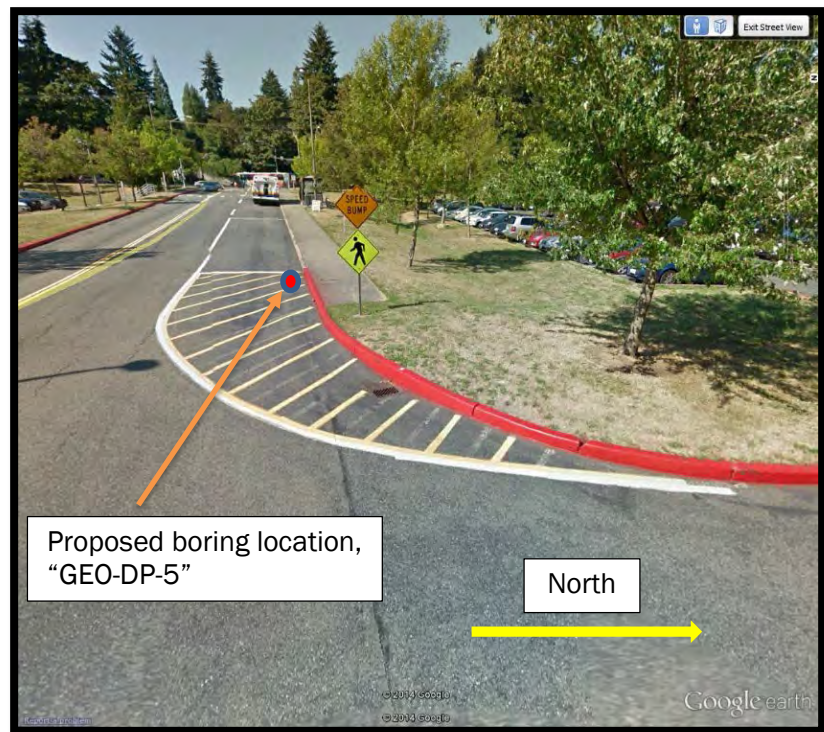
- One day for sampling the wells DWR2-MW1 and DWR2-MW2, and B-B-BPR-8p to be completed on Saturday, March 7, 2015. Work hours will be between 7 am and 6 pm. Two to three hours of work time is expected at each well.

One of the two sampling events to obtain groundwater samples from the two monitoring wells will occur outside of the five work days outlined above; the schedule of that sampling event will be coordinated with WSDOT prior to its completion.

Site Access and Notification

- Informational flyers notifying drivers and commuters of the proposed field activities will be placed in the bus waiting areas approximately one week prior to beginning work.
- We will follow the project notification protocol prior to mobilizing to the site for utility locating and explorations.
- Orange traffic cones will be used to block three to four parking spaces for each proposed boring location. Cones will be positioned several hours prior to beginning the drilling activities. The cones will be removed upon completion of each boring. Traffic control is not planned to redirect traffic.
 - Drilling and support equipment will be staged near the on-site stormwater detention pond at the northeast corner of the site. Equipment will be staged overnight on February 28, 2015 and March 7, 2015.
 - Ten parking stalls will be blocked off on February 28, 2015 between 7 am and 6 pm for drilling of monitoring well DWR2-MW1. The stalls will be blocked off between 7 am and 6 pm or until drilling is completed.
 - A total of 19 parking stalls will be blocked off on March 1, 2015, including four stalls each around borings GEO-DP1, GEO-DP2, GEO-DP3 and GEO-DP4 (drilling) and three stalls around monitoring well GEO-MW1 (well development). The stalls will be blocked off between 7 am and 6 pm or until drilling is completed.
 - A total of 19 parking stalls will be blocked off on March 7, 2015, including four stalls each around borings GEO-DP5, GEO-DP6, GEO-DP7 and GEO-DP8 (drilling) and three stalls around monitoring well DWR2-MW1 (groundwater sampling). The stalls will be blocked off between 7 am and 6 pm or until drilling is completed.
 - A total of 8 parking stalls will be blocked off on March 8, 2015, including four stalls each around borings GEO-DP9 and GEO-DP10 (drilling). The stalls will be blocked off between 7 am and 6 pm or until drilling is completed.

One of the proposed borings (GEO-DP5) is located in the central entrance to the facility at what appears to be a bus turning radius area (see photo at right). Completion of the boring will require approximately two hours. Drilling and support equipment will be staged to the west of the boring throughout the two-hour duration. Orange traffic cones will be used to surround the work area; the cones will be removed upon completion of the boring.



Five proposed borings will be completed near an on-site stormwater detention pond for which access will be required at the locked gate in the northwest corner of the Site for the drilling equipment to enter (see Figure 2 and photo at right). The area around the detention pond will also be used to stage drilling and support equipment during field activities.



Safety

- The field investigation field crew will include up to two HAZWOPER-trained field representatives from GeoEngineers, as well as a licensed drill crew of two or three HAZWOPER-trained people to complete the borings.
- Personnel will wear hard hats, high-visibility vests, protective eyewear, steel toe safety boots, and other appropriate personal protective equipment as needed to safely complete the on-site activities. Personnel will follow Site Safety Plans and participate in daily safety tailgates.

Emergency contacts for Sound Transit are listed below:

1. Mark Menard: 206.398.5227 – Project Manager
2. Luke Lamon: 206.903.7469 – Community Outreach, East Corridor
3. Abby Chazanow: 206.903.7326 – Community Outreach Assistant, East Corridor
4. Kelly Jones: 206.398.5448 – ROW Issues

If you have questions or comments concerning this SIP, please contact Tricia DeOme at 253.722.2415 or tdeome@geoengineers.com.

Attachments:

Figure 1. Vicinity Map

Figure 2. Boring Locations/Access and Staging Plan

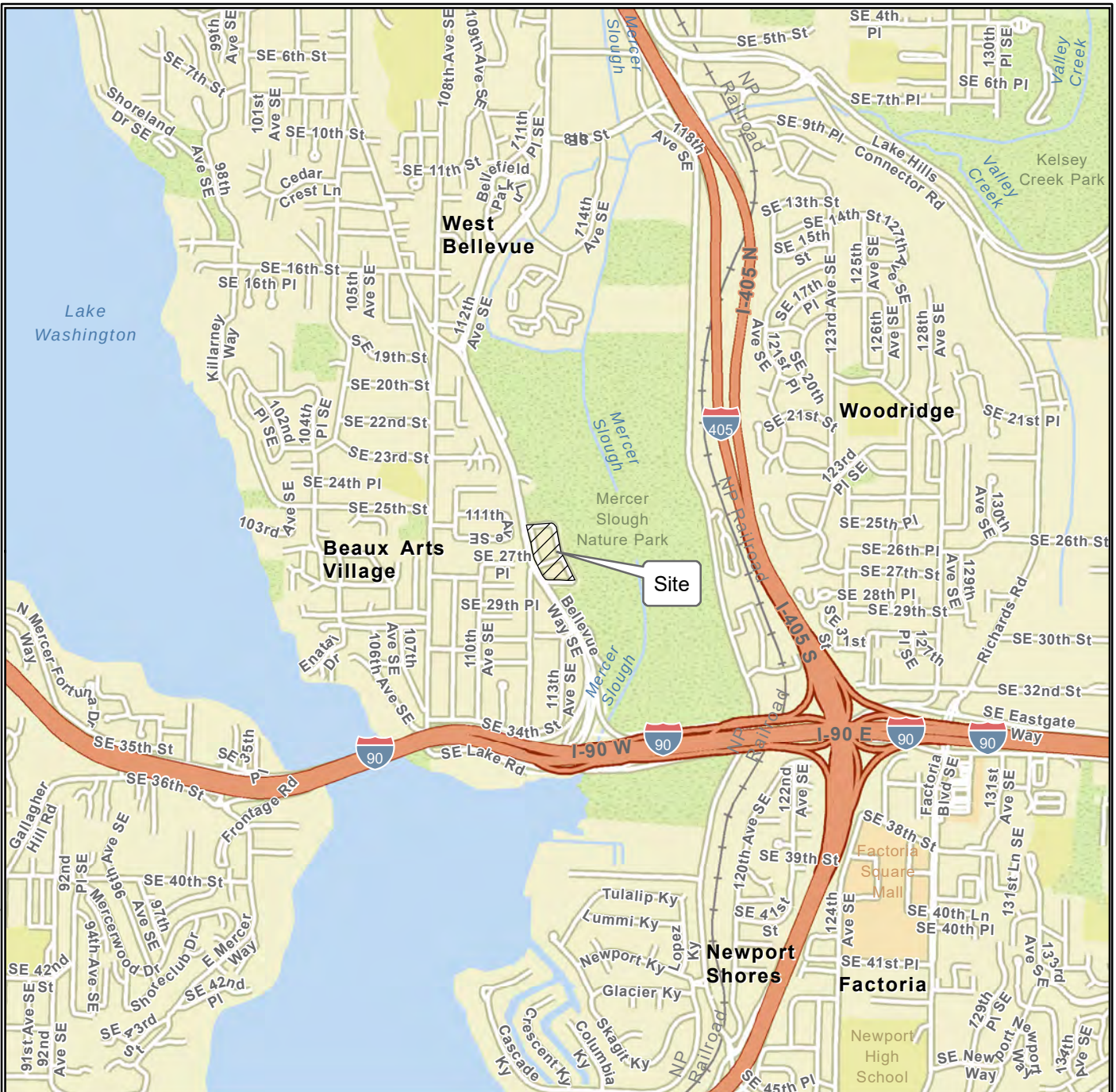
Traffic Statement

Estimated Field Schedule by Boring

Sound Transit Field Protocol Sound Transit Field Protocol Memorandum, dated June 19, 2012

WSDOT Permit

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north



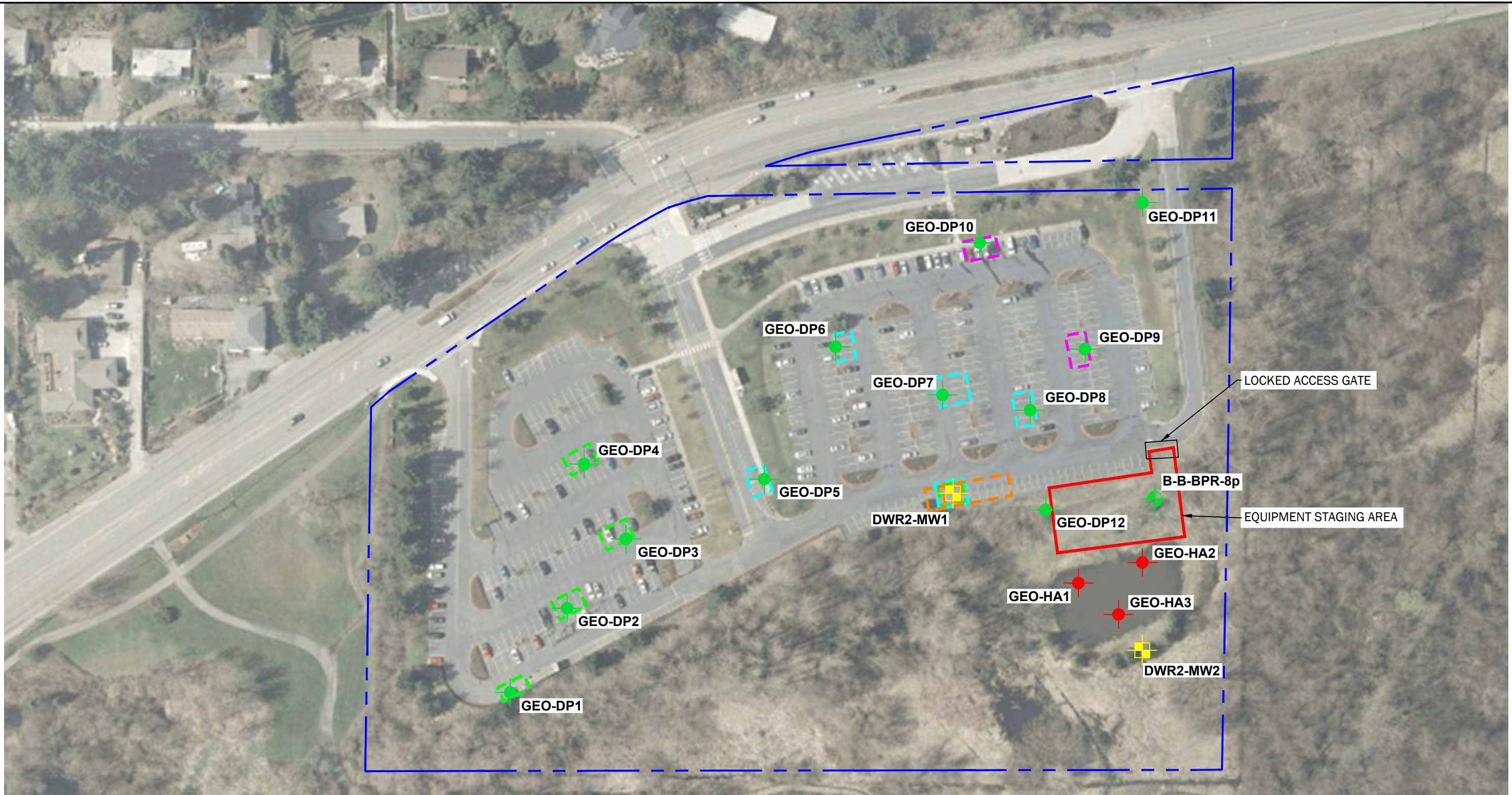
Vicinity Map

Sound Transit, Inc.
WSDOT, South Bellevue Park & Ride
2700 Bellevue Way SE
Bellevue, Washington



Figure 1

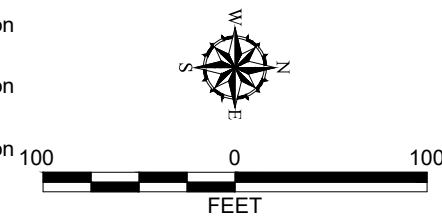
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Legend

- GEO-MW-1** Proposed Monitoring Well (shallow aquifer; Approx. 20 feet Deep)
- GEO-HA-1** Proposed Sediment Sample (Approx. 2 feet Deep)
- B-B-BPR-8p** Existing Monitoring Well
- GEO-DP-1** Proposed Direct Push Boring (Approx. 30 feet Deep)
- Property Boundary

- Parking stalls to be blocked off on 2/28/15 between 7am and 6pm
- Parking stalls to be blocked off on 3/1/15 between 7am and 6pm
- Parking stalls to be blocked off on 3/7/15 between 7am and 6pm
- Parking stalls to be blocked off on 3/8/15 between 7am and 6pm
- Equipment Staging Area



Proposed Boring Locations / Access and Staging Plan

Subsurface Investigation, East Link Alignment E320
Parcel EL111 WSDOT Park and Ride - Bellevue, Washington

GEOENGINEERS

Figure 2

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source:

ESTIMATED FIELD SCHEDULE BY BORING - UPDATED JANUARY 27, 2015

Sound Transit-East Link Alignment E320 – WSDOT South Bellevue Park & Ride, EL111

Bellevue, Washington

	February		March							
Day of Month:	27	28	1	2	3	4	5	6	7	8
Well Installation, Development and Groundwater Sampling of Monitoring Wells (Impacts Include Blocking Lanes and Parking Stalls and Access and Noise Associated With Drilling Rig and Pumps)										
GEO-MW1		W	M						S	
GEO-MW2		W	M						S	
B-B-BPR-8p (existing monitoring well)									S	
Direct Push Soil Borings (Impacts Include Blocking Lanes and Parking Stalls and Access and Noise Associated With Drilling Rig)										
GEO-DP1			D							
GEO-DP2			D							
GEO-DP3			D							
GEO-DP4			D							
GEO-DP5									D	
GEO-DP6									D	
GEO-DP7									D	
GEO-DP8									D	
GEO-DP9										D
GEO-DP10										D
GEO-DP11										D
GEO-DP12										D
Hand Auger Soil Borings (Impacts Include Blocking an Area Approximately 10 by 15 Feet)										
GEO-HA-1			H							
GEO-HA-2			H							
GEO-HA-3			H							

Dates shown are estimated and are subject to change on a daily basis. GeoEngineers will keep Sound Transit apprised of potential changes to the schedule..

D = Direct Push Drilling (Disturbance Includes Traffic Control in ROW and Blocking an Area Approximately 20 by 40 feet)

H = Hand Auger Boring (Disturbance Includes Blocking an Area Approximately 10 by 10 feet)

M = Well Development (Disturbance Includes Blocking an Area Approximately 20 by 30 feet and Noise of a Pump)

S = Well Sampling (Disturbance Includes Blocking an Area Approximately 20 by 30 feet and Noise of a Pump)

W = Well Installation Drilling (Disturbance Includes Blocking an Area Approximately 100 by 20 Feet, Noise of Drill Hammer and Minor Vibrations)

MEMORANDUM

Sound Transit East Link | Bellevue to OTC

Field Work Protocols

June 19, 2012 (updated May 20, 2014)

Purpose:

This memorandum outlines the processes and requirements for Early Work Field Work primarily for survey, geotechnical, traffic collect, environmental, and utility potholing. This document is draft and subject to change.

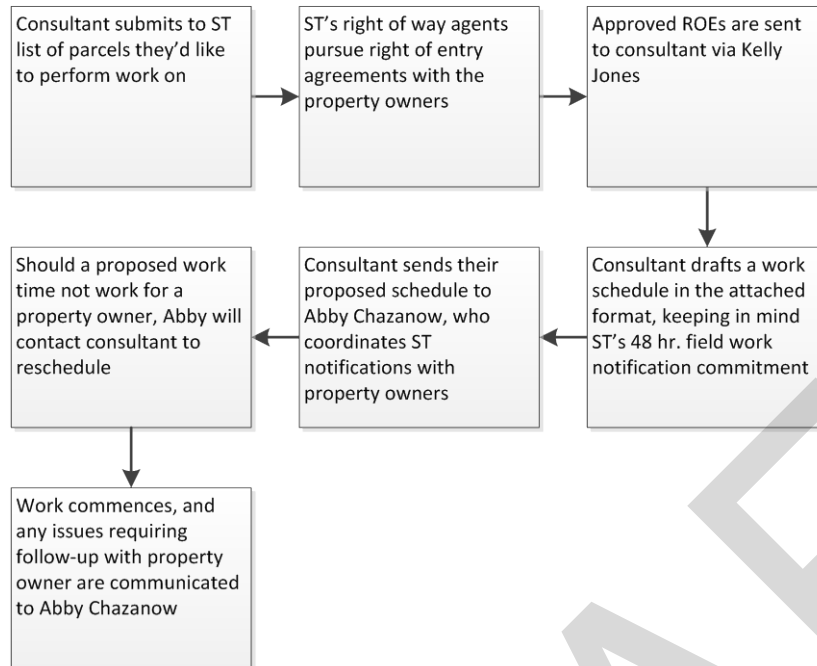
Information:Private Property General Requirements:

- 72 hour notification must be given to Sound Transit Community Outreach staff before work can begin on private property.
- A “Right of Entry” is required.
- Sound Transit Community Outreach staff shall notify the primary contact for the property at least 48 hours in advance of field staff entering property.
- Sound Transit Community Outreach staff may notify neighbors/businesses and/or the general public of field work activities (depending on specific activity) 48 hours in advance of field staff accessing public property.

Public Property General Requirements:

- 72 hours notification must be given to Sound Transit Community Outreach staff before work can begin in the public right-of-way.
- Sound Transit Community Outreach staff may notify neighbors/businesses and/or the general public of field work activities (depending on specific activity) 48 hours in advance of field staff accessing public property.
- A “Right of Entry” and/or permits are required. A “Right of Entry” is also required on Sound Transit-owned property.

Field Work Protocols



Obtaining Permits:

- If work is to occur in a city or state-owned roadway or property, the consultant is responsible for coordinating all necessary permits from the city/state/county on behalf of Sound Transit. Once the permit is obtained, the consultant is to forward the permit, maps and any traffic control plans to Sound Transit Project Management and Community Outreach.

Information needed from consultant prior to any field work:

- Location of work
- Type of work
- Hours of work (ex., 7:30am – 5pm)
- Duration of work (ex., 6/4/12 – 6/8/12)
- Description of work
- What the public should expect as far as noise, visual distractions, parking disruptions, traffic revisions and pedestrian and bicycle access

East Link Field Work Contacts:

- Sound Transit Community Outreach:
 - Point of contact (general project inquiries):
Abby Chazanow, 206.903.7326, email abby.chazanow@soundtransit.org
- Sound Transit Discipline Leads:
 - Katie Kuciemba – East Corridor Community Outreach Supervisor
Phone: 206.398.5459, email: katie.kuciemba@soundtransit.org
 - Geoff Patrick – Media Relations
Phone: 206.398.531, email: geoff.patrick@soundtransit.org

Field Work Protocols

Private Property Notification Protocol:

1. Field work activity is scheduled and coordinated with ST, and project consultants.
2. Consultant emails Abby Chazanow with details of field work activity at least 72 hours in advance of field work activity.
3. Abby Chazanow works with Katie Kuciemba to review rights of entry.
4. Sound Transit Community Outreach staff will provide 48 hours' notice to property owner(s) prior to the start of approved right of entry field work.
5. Sound Transit Community Outreach follows-up with consultant regarding right of entry protocol and reports sensitive issues.
6. When required, Sound Transit Community Outreach staff will schedule a prep-meeting for appropriate field staff and provide updates on issues and concerns related to specific properties.
7. Abby Chazanow works with consultant or sub-consultants to ensure staff are equipped with East Corridor Community Outreach contact card.

In the case of:

- A general project or agency inquiry: contact Abby Chazanow
- A media inquiry: contact Katie Kuciemba and Geoff Patrick
- An on-site emergency: contact 911 and follow-up with Katie Kuciemba
- An on-site safety concern: contact Katie Kuciemba



**Washington State
Department of Transportation**
Paula J. Hammond, P.E.
Secretary of Transportation

Northwest Region
15700 Dayton Avenue North
P.O. Box 330310
Seattle, WA 98133-9710

206-440-4000 / Fax 206-409-7250
TTY: 1-800-833-6388
www.wsdot.wa.gov

January 9, 2015

Mr. Mark Menard
Environmental Compliance Manager
Sound Transit, Inc./ GeoEngineers, Inc.
401 South Jackson Street
Seattle, WA 98104

Subject: I-90, MP 9.17 to MP 9.33
Potholing
Utility Permit No. 20169

Dear Mr. Menard:

Please find enclosed your approved utility general permit application. Construction of your permit must begin within one calendar year and completed within three years of the date of approval shown on the application.

Prior to occupation by any construction equipment or personnel within WSDOT right-of-way, a pre-construction conference is required with Assistant Maintenance Superintendent Lee Fanning. Mr. Fanning can be contacted at:

10833 Northup Way NE
Bellevue, WA 98004
425-739-3734

If you have any questions regarding your application please contact me at (206) 440-4133.

Sincerely,

Al R. Firouzi
Utility Engineer

ARF:arf
Enclosures

Cc: Lee Fanning, Area 5 Maintenance
File



Application for General Permit

Permit No.

20169

Applicant - Please print or type all information

Application is Hereby Made For: ☐ General Permit (No Fee)

☐ General Permit \$2.50 (Subject to RCW 47.12.140(2)) Reimb. Acct.

Intended Use of State Right of Way is to Construct, Operate, and Maintain a: This Phase II Environmental Site Assessment will consist of up to seventeen borings ranging in depth between 2 feet and 30 feet. Twelve borings will be completed using direct-push drilling methods; three borings will be completed using a hand auger; and two borings will be completed using a hollow-stem auger drill rig and constructed as monitoring wells for characterization of groundwater conditions beneath the site (see Figure 2). Drilling spoils will be placed in 55-gallon drums for temporary storage at the site and removed after the soil has been characterized for off-site disposal. Eleven of the proposed borings are located in or near paved portions of the facility and will require blocking parking spaces to complete. Please see the attached "Traffic Statement" for a discussion of traffic control measures proposed for the project. Each boring location will be patched to match the surrounding finish upon completion of the boring.

Approximately ~2,100 feet north of Interstate 90 between Mile Post 9.17 and Mile Post 9.33 in King County, to begin in the SE ¼ NE ¼ Section 8 Township 24 North: Range 5 East W.M. and end in the NE ¼ NE ¼ Section 8 Township 24 North: Range 5 East W.M.

Fees in the amount of \$2.50 are paid to defray the basic administrative expense incident to the processing of this application according to RCW 47.12.140(2) and amendments. The applicant further promises to pay additional costs incurred by the Department on the behalf of the applicant.

Checks or Money Orders are to be made payable to "Washington State Department of Transportation."

Applicant (Referred to as Grantee)

Sound Transit, Inc.

401 South Jackson Street

Seattle, WA 98104

Telephone 206.689.4968

Applicant (WO) Number: 4082-044-01

Applicant Authorized Signature

Print or Type Name Mark Menard

Title Environmental Compliance Manager

Dated this 31st day of December, 2014

Federal Tax ID Number: 91-1628275

Authorization to Occupy Only If Approved Below

The Washington State Department of Transportation referred to as the "Department," hereby grants this Permit subject to the terms and conditions stated in the General Provisions, Special Provisions, and Exhibits attached hereto and by this reference made a part hereof: Construction facilities proposed under this application shall begin within one year and must be completed within three years from date of approval

For Department Use Only

Exhibits Attached

Not on a SR, no Exhibits

Department Approval

By:

Paul D. Lacy

Paul D. Lacy

Title:

NWR Utility/RR Engineer

Date:

1/9/2015

Expiration Date:

To: Mark Menard, Sound Transit
From: Tricia S. DeOme, LG and Dana L. Carlisle, PE
Date: December 31, 2014
File: 4082-044-01
Subject: Site Investigation Plan (SIP)
East Link Alignment E320 – WSDOT South Bellevue Park & Ride, EL111
Bellevue, Washington

Project Information

This Site Investigation Plan (SIP) is for a Phase II Environmental Site Assessment (ESA) to evaluate environmental soil and groundwater conditions at the Washington State Department of Transportation (WSDOT) Park and Ride site (EL111) along Sound Transit's E320 contract section for East Link. The E320 section consists of approximately 2.2 miles of new track extending from the I-90 ramps at the south end of Bellevue Way to SE 1st Place. The EL111 property/WSDOT Park and Ride will be the future South Bellevue Station for East Link.

The site is a park and ride lot with an existing stormwater pond. The park and ride was built/expanded in the 1980s and late 1990s. Based on this use, there is the potential that oil or other automotive fluids leaked, spilled or otherwise were released onto the parking lot at times in the past and may have flowed into the stormwater collection features on the subject property.

An historical single-family residence and greenhouse were constructed on this parcel in 1922. The house reportedly used oil heat, but no information was identified by Phase I ESA research to confirm where the residential heating oil tank was located. Additionally, previous geotechnical borings at the site noted fill that included possible demolition debris described as fragments of wood, brick, and/or asphalt. The source(s) of fill were not identified during the recent Phase I ESA.

Review of Existing Geologic Information

Based on geotechnical borings completed at the Park and Ride site for the E320 project, subsurface conditions are generally anticipated to consist of fill overlying the following geologic units: recessional outwash consisting of dense to very dense, sandy gravel with occasional cobbles (Qvro); glacial till consisting of very dense silty fine to coarse sand with fine to coarse gravel (Qvt); pre-Vashon lacustrine deposits consisting of silt and clay with trace gravel (Qpnl); and pre-Vashon fluvial deposits consisting of silty fine sand and fine sand (Qpnf).

Environmental Explorations, Drilling and Sampling

The purpose of the Phase II ESA subsurface investigation is to evaluate the potential for releases of hazardous substances to have impacted soil and groundwater that may be encountered during Sound Transit construction at EL111. The subsurface investigation scope was not designed to characterize the vertical and/or lateral extent of impacted and/or contaminated soil at the site.

GeoEngineers will coordinate the utility locate notification request for marking existing underground utilities at and near proposed drilling locations. The Utilities Underground Location Center (One-Call) service will be

3. VOCs by EPA Method 624;
4. Semivolatile organic compounds (SVOCs) by EPA Method 625;
5. pH by EPA Method SM 4500-H B;
6. Cyanide amenable by SM 4500 CN-G;
7. Closed cup flash point by ASTM D 93 PMCC.

Schedule, Equipment, Site Access and Notification

- Field activities will be completed over five work days; one day for marking utility locate lines at the site and two weekends to complete the proposed drilling and well installation activities. Work hours will be approximately 7 am to 6 pm. Noise variances are not expected to be required. One of the two sampling events to obtain groundwater samples from the two monitoring wells will occur outside of the five work days discussed here; the schedule of that sampling event will be coordinated with WSDOT prior to its completion.
- Scheduling of field work is contingent upon approval of a WSDOT General Permit.
- Phase II ESA field crew will include one field representative from GeoEngineers, as well as a drill crew of two or three people to complete the borings.
- Personnel will wear hard hats, high-visibility vests, protective eyewear, steel toe safety boots, and other appropriate personal protective equipment as needed to safely complete the on-site activities.
- We will follow the project notification protocol prior to mobilizing to the site for utility locating and explorations.

Emergency contacts for Sound Transit are listed below:

1. Mark Menard: 206.398.5227 – Project Manager
2. Luke Lamon: 206.903.7469 – Community Outreach, East Corridor
3. Abby Chazanow: 206.903.7326 – Community Outreach Assistant, East Corridor
4. Kelly Jones: 206.398.5448 – ROW Issues

If you have questions or comments concerning this SIP, please contact Tricia DeOme at 253.722.2415 or tdeome@geoengineers.com.

Attachments: Vicinity Map (Figure 1)
Boring Locations (Figure 2)
Traffic Statement
Sound Transit Field Protocol Sound Transit Field Protocol Memorandum, dated June 19, 2012

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

To: Mark Menard, Sound Transit, Inc.
From: Tricia S. DeOme, LG and Dana L. Carlisle, PE
Date: December 31, 2014
File: 4082-044-01
Subject: Traffic Statement
East Link Alignment E320 – WSDOT South Bellevue Park & Ride EL111
Bellevue, Washington

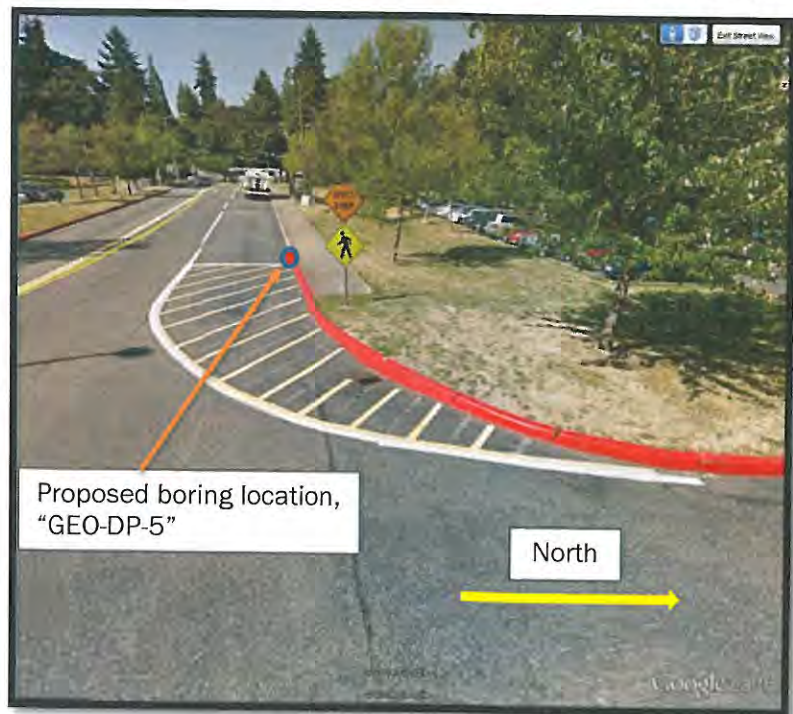
Project Information

This traffic statement accompanies the Washington State Department of Transportation (WSDOT) General Permit Application and describes traffic management details to be implemented during drilling and sampling at 17 proposed environmental exploration locations to be completed at WSDOT's Park and Ride (EL111) site. The EL111 property/WSDOT Park and Ride will be the future *South Bellevue Station* for East Link.

Eleven of the 17 proposed borings are located within the paved portions of the existing WSDOT Park and Ride facility. Based on their locations, drilling activities have the potential to inhibit vehicle movement or will require blocking off parking spaces during their completion (see attached Figure 2 for boring locations). To complete the proposed exploration activities and minimize disruptions to use of the site as a park and ride lot, we propose to complete the work during daylight hours on two weekends. Furthermore, we propose to select weekends in which events in the region aren't likely to result in large numbers of vehicles parking at the facility.

Orange traffic cones will be used to block three to four parking spaces for each proposed boring location. Cones will be positioned several hours prior to beginning the drilling activities. The cones will be removed upon completion of each boring.

One of the proposed borings is located in the central entrance to the facility at what appears to be a bus turning radius area (see photo at right). Completion of the boring will require approximately two hours. Drilling and support equipment will be staged to the west of the boring throughout the two-hour duration. Orange traffic cones will be used to surround the work area; the cones will be removed upon completion of the boring.



Five proposed borings will be completed near an on-site stormwater detention pond for which access will be required at the locked gate in the northwest corner of the Site for the drilling equipment to enter (see Figure 2 and photo below).



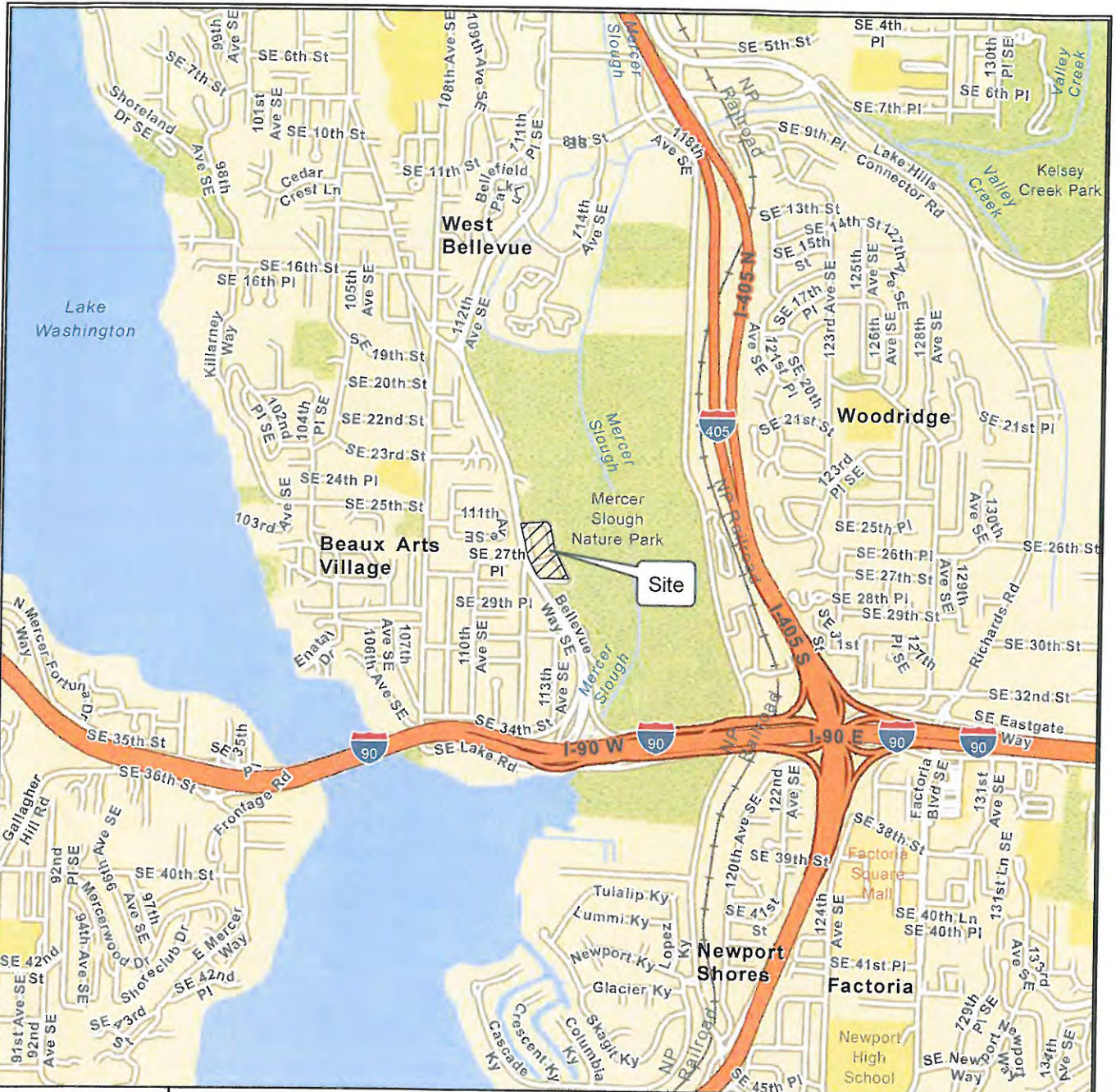
If you have questions or comments concerning this Traffic Statement, please contact Paul Craig at pcraig@geoengineers.com or 206-793-4589.

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Map Revised: 12/16/2014 EL

Path: \\red\projects\414082044\GIS\408204401_F1_VicinityMap.mxd

Office: Redmond



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 10 N North, North American Datum 1983
North arrow oriented to grid north

Vicinity Map

Sound Transit, Inc.
WSDOT, South Bellevue Park & Ride
2700 Bellevue Way SE
Bellevue, Washington

GEOENGINEERS

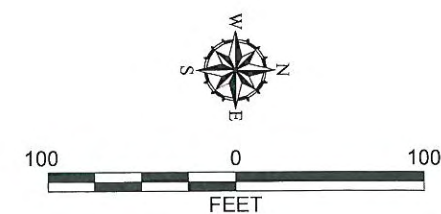
Figure 1



Notes:
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source:

- Legend**
- GEO-MW-1 Proposed Monitoring Well (shallow aquifer; Approx. 20 feet Deep)
 - GEO-HA-1 Proposed Sediment Sample (Approx. 2 feet Deep)
 - B-B-BPR-8p Existing Monitoring Well
 - GEO-DP-1 Proposed Direct Push Boring (Approx. 30 feet Deep)
 - Property Boundary



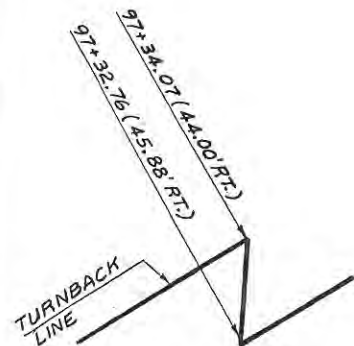
Proposed Boring Locations	
Subsurface Investigation, East Link Alignment E320 Parcel EL111 WSDOT Park and Ride - Bellevue, Washington	
	Figure 2

NOTE: FOR R/W & L/A ON SR 90
SEE SR 90
E CHANNEL BRIDGE TO
RICHARDS RD. APPROVED
AUGUST 17, 1965

T.24N.R.5E.W.M.

SW 1/4 NE 1/4 Sec.8

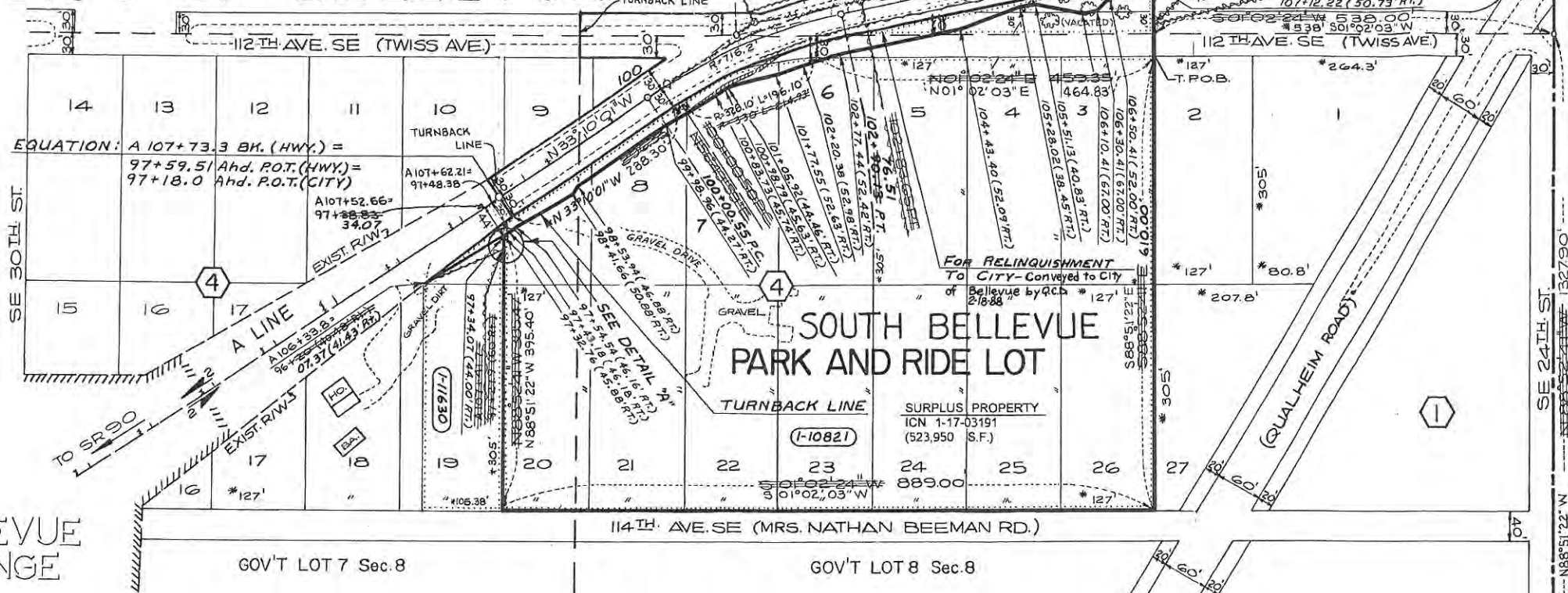
CITY OF BELLEVUE



DETAIL "A"
NO SCALE

SOUTH BELLEVUE
INTERCHANGE
SR 90

EQUATION: $A 107+73.3 \text{ BH. (HWY.)} =$
 $97+59.51 \text{ Ahd. P.O.T. (HWY.)} =$
 $97+18.0 \text{ Ahd. P.O.T. (CITY)}$



ALL PLANS ARE SUBJECT TO CHANGE.
OWNERSHIP SHOULD BE VERIFIED.
PROPOSED PROPERTY RIGHTS SHOWN
MAY NOT HAVE BEEN ACQUIRED.
ENCUMBRANCES MAY OR MAY NOT BE
SHOWN. PARTIES SEEKING CURRENT
PLAN INFORMATION SHOULD CONSULT
THE DEPARTMENT OF TRANSPORTATION
HEADQUARTERS RIGHT OF WAY PLANS
OFFICE FOR THE OFFICIAL PLAN ON FILE.
FOR ENCUMBRANCE INFORMATION CONSULT
THE DEPARTMENT OF TRANSPORTATION
HEADQUARTERS REAL ESTATE SERVICES OFFICE.

LEGEND

PROPERTY OWNERSHIP NUMBERS
PROPERTY LINES
SCALE IN FEET

(I-10821)

100' 50' 0' 100'

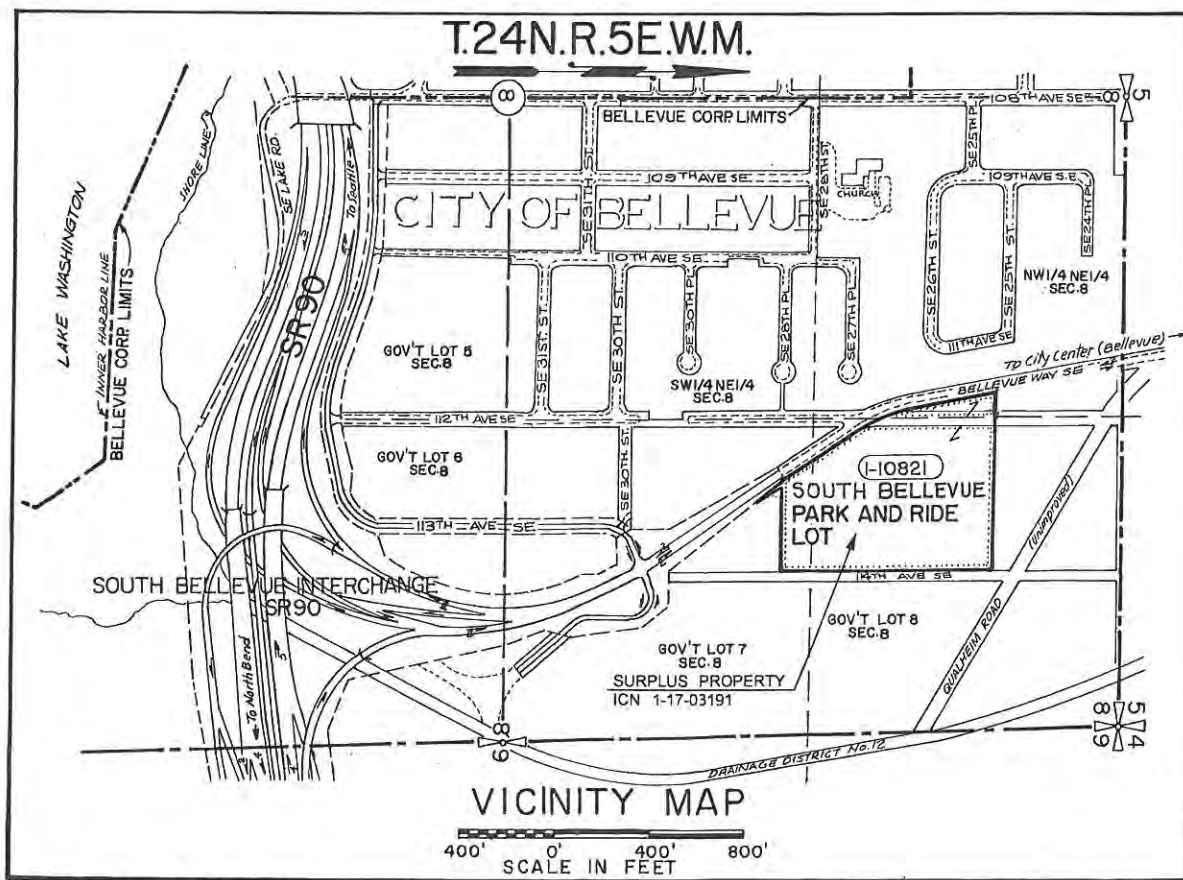
4 QUALHEIM'S LAKE WASHINGTON ACRE TRACTS

PARCEL NO.	NAME	TOTAL AREA	R/W	LT. REMAINDER	RT.	EXCESSEASMT
I-11631			NOT	USED		
I-11630	BALATICO	36,300 S.F.	850 S.F.			35,450 S.F.
I-10821	GIROUX-SMITH	526,285 S.F.	526,285 S.F.			
OWNERSHIPS						

NOTE: ALL BEARINGS AND DISTANCES
PRECEDED BY AN ASTERISK ARE
TAKEN FROM TITLE REPORTS AND
PLAT MAPS.

T.24N.R.5E.W.M.

CITY OF BELLEVUE



VICINITY MAP

400' 0' 400' 800'
SCALE IN FEET

LETTER	DATE	DESCRIPTION	BY
Letter 5-29-14	7-11-14	Added Surplus Property, ICN 1-17-03191, Area and Ownership Verification Notes.	BHB
Letter 11-14-85	7-18-86	Added Turnback Line & Noted Relinquishment Area on Rt. Sta. 97+32.76 to 107+16.30.	SAT
Letter 8-12-88	8-29-80	Revised boundary S. Bellevue Park & Ride 96+20 to 97+38.83, areas parcel I-11630	RL3
Letter 1-9-80	3-7-80	Deleted Parcel No. 1-11631, Revised N.W. Boundary.	WB
Letter 5-8-19	6-1-19	Revised SW 1/4 NW 1/4 boundaries So. Bellevue Park & Ride Lot, added parcels I-11630 & I-11631, turnback lines & relinquishment to city Bellevue Way S.E.	RLS
Letter 2-26-19	3-16-19	Revised boundary So. Bellevue Park & Ride Lot, alignment & R/W of Bellevue Way S.E. as constructed, boundary & areas parcel I-10821	RLS
AUTHORITY	DATE	SUBSEQUENT APPROVAL	BY

REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
10	WASH.		

KING COUNTY
SUNDRY SITE PLANS

SOUTH BELLEVUE PARK & RIDE LOT

WASHINGTON STATE HIGHWAY COMMISSION
DEPARTMENT OF HIGHWAYS
OLYMPIA, WASHINGTON
W. A. BULLEY DIRECTOR OF HIGHWAYS



John H. Cooper
ROADWAY DEVELOPMENT
ENGINEER

APPROVED February 6, 1976

SHEET 30

MEMORANDUM

Sound Transit East Link | Bellevue to OTC

Field Work Protocols

June 19, 2012 (updated May 20, 2014)

Purpose:

This memorandum outlines the processes and requirements for Early Work Field Work primarily for survey, geotechnical, traffic collect, environmental, and utility potholing. This document is draft and subject to change.

Information:

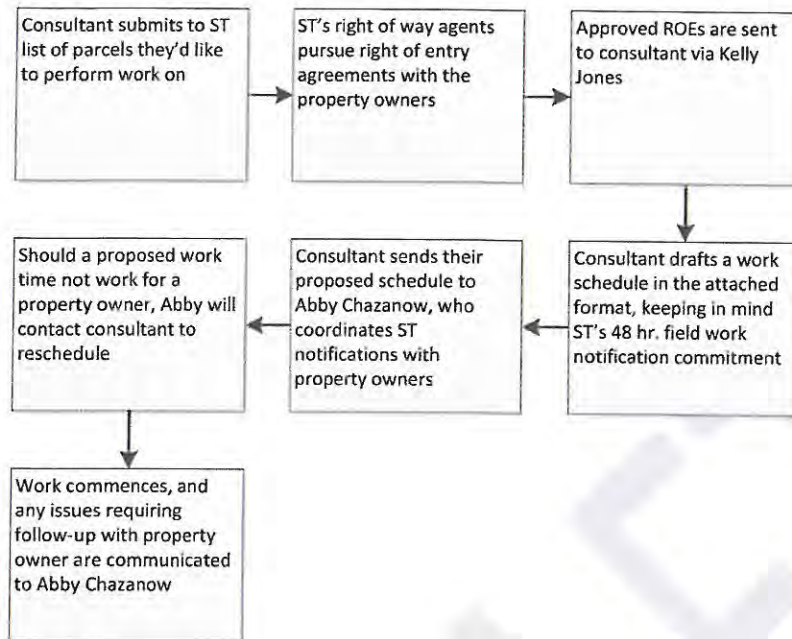
Private Property General Requirements:

- 72 hour notification must be given to Sound Transit Community Outreach staff before work can begin on private property.
- A "Right of Entry" is required.
- Sound Transit Community Outreach staff shall notify the primary contact for the property at least 48 hours in advance of field staff entering property.
- Sound Transit Community Outreach staff may notify neighbors/businesses and/or the general public of field work activities (depending on specific activity) 48 hours in advance of field staff accessing public property.

Public Property General Requirements:

- 72 hours notification must be given to Sound Transit Community Outreach staff before work can begin in the public right-of-way.
- Sound Transit Community Outreach staff may notify neighbors/businesses and/or the general public of field work activities (depending on specific activity) 48 hours in advance of field staff accessing public property.
- A "Right of Entry" and/or permits are required. A "Right of Entry" is also required on Sound Transit-owned property.

Field Work Protocols



Obtaining Permits:

- If work is to occur in a city or state-owned roadway or property, the consultant is responsible for coordinating all necessary permits from the city/state/county on behalf of Sound Transit. Once the permit is obtained, the consultant is to forward the permit, maps and any traffic control plans to Sound Transit Project Management and Community Outreach.

Information needed from consultant prior to any field work:

- Location of work
- Type of work
- Hours of work (ex., 7:30am – 5pm)
- Duration of work (ex., 6/4/12 – 6/8/12)
- Description of work
- What the public should expect as far as noise, visual distractions, parking disruptions, traffic revisions and pedestrian and bicycle access

East Link Field Work Contacts:

- Sound Transit Community Outreach:
 - Point of contact (general project inquiries):
Abby Chazanow, 206.903.7326, email abby.chazanow@soundtransit.org
- Sound Transit Discipline Leads:
 - Katie Kuciemba – East Corridor Community Outreach Supervisor
Phone: 206.398.5459, email: katie.kuciemba@soundtransit.org
 - Geoff Patrick – Media Relations
Phone: 206.398.531, email: geoff.patrick@soundtransit.org

Field Work Protocols

Private Property Notification Protocol:

1. Field work activity is scheduled and coordinated with ST, and project consultants.
2. Consultant emails Abby Chazanow with details of field work activity at least 72 hours in advance of field work activity.
3. Abby Chazanow works with Katie Kuciemba to review rights of entry.
4. Sound Transit Community Outreach staff will provide 48 hours' notice to property owner(s) prior to the start of approved right of entry field work.
5. Sound Transit Community Outreach follows-up with consultant regarding right of entry protocol and reports sensitive issues.
6. When required, Sound Transit Community Outreach staff will schedule a prep-meeting for appropriate field staff and provide updates on issues and concerns related to specific properties.
7. Abby Chazanow works with consultant or sub-consultants to ensure staff are equipped with East Corridor Community Outreach contact card.

In the case of:

- A general project or agency inquiry: contact Abby Chazanow
- A media inquiry: contact Katie Kuciemba and Geoff Patrick
- An on-site emergency: contact 911 and follow-up with Katie Kuciemba
- An on-site safety concern: contact Katie Kuciemba

APPENDIX C

Chemical Analytical Program

APPENDIX C

CHEMICAL ANALYTICAL PROGRAM

Analytical Methods

Chain-of-custody procedures were followed during the transfer of field samples to the analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference and laboratory quality assurance/quality control (QA/QC) records are included in this appendix. The analytical results are also summarized in the text of this report.

Analytical Data Review

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries, and blank spike duplicate recoveries to evaluate the validity of the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report and below:

NWTPH Gx Analysis

The reporting limits for samples EL111-HA-1-1.5-2 and EL111-HA-3-1.5-2 were raised due to the extremely low dry weight of the samples. The analytes were not detected above the reporting limits. Because the adjusted reporting limits were still less than the MTCA Method A cleanup level of 100 ppm for gasoline, it is our opinion that the analytical data are of acceptable quality for their intended use for this study.

Organochlorine Pesticides by EPA 8081B Analysis

The continuing calibration verification standards (CCVs) for pesticide analyses for three samples were low and attributed by the lab to matrix interference. As such, the reported detections for these samples should be considered estimated and biased low. Taking into account the low bias, the detected concentrations are significantly lower than cleanup levels for the analytes tested. It is our opinion that the analytical data are of acceptable quality for their intended use for this study.

PAHs EPA 8270D/SIM Analysis

According to the laboratory, the samples were extracted 1 hour out of holding time. In addition, surrogate recoveries in samples EL111-HA-1-1.5-2 and EL111-HA-3-0-0.5 were outside control limits for one of the surrogates. Other laboratory QA/QC for this method met corresponding control limits. Therefore, it is our opinion that the analytical data are of acceptable quality for their intended use for this study.

Analytical Data Review Summary

It is our opinion that the analytical data are of acceptable quality for their intended use based on our data quality review.

Project: Sound Transit – East Link E320, WSDOT South Bellevue Park & Ride (EL111)
Phase II Environmental Site Assessment
February/March 2015 Soil and Groundwater Samples

GEI File No: 04082-044-01

Date: April 14, 2015

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and groundwater samples collected as part of the February and March 2015 sampling events, and the associated laboratory quality control (QC) samples. The samples were obtained from the EL111 site located at the I-90 ramps at the south end of Bellevue Way to SE 1st Place in Bellevue, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008) and Inorganic Superfund Data Review (USEPA 2010) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

Table 1: Summary of Validated Sample Delivery Groups

Laboratory SDG	Samples Validated
1502-257	EL111-HA-1-0-0.5, EL111-HA-1-1.5-2, EL111-HA-2-0-0.5, EL111-HA-2-0.5-1, EL111-HA-2-1-1.5, EL111-HA-3-0-0.5, EL111-HA-3-1.5-2
1503-001R	DWR2-MW1-5-5.5, DWR2-MW1-18.5-20, DWR2-MW2-2.5-3, DWR2-MW2-16.5-17, EL111-DP1-2-3, EL111-DP1-5-6, EL111-DP2-2-3, EL111-DP2-4.5-5.5, EL111-DP3-2-3, EL111-DP3-4.5-5.5, EL111-DP4-2-3, EL111-DP4-4-5, EL111-DP5-2-3, EL111-DP5-5-6
1503-056	B-B-BPR-8P, DWR2-MW1, DWR2-MW2
1503-061	EL111-DP6-2-3, EL111-DP6-12-13, EL111-DP7-2-3, EL111-DP7-7-8, EL111-DP8-2-3, EL111-DP8-4.5-5.5, EL111-DP9-2-3, EL111-DP9-8-9, EL111-DP10-2-3, EL111-DP10-7-8, EL111-DP10-14-15, EL111-DP11-2-3, EL111-DP11-12-13, EL111-DP11-22-23, EL111-DP11-23-24, EL111-DP12-2-3, EL111-DP12-7-8

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analysis on the soil and groundwater samples using one or more of the following methods:

- Hydrocarbon Identification (NWTPH-HCID) by Method NWTPH-HCID;
- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method SW8260C;
- Polycyclic Aromatic Hydrocarbons (PAHs) by Method SW8270D-SIM;
- Organochlorine Pesticides by Method SW8081B;
- Chlorinated Acid Herbicides by Method SW8151A;
- Total Metals by Methods EPA200.8/6010C/6020A/7470A/7471B;
- Soluble Hexavalent Chromium Water Extraction (Hexavalent Chromium) by Method EPA7196A; and
- pH by Method SM4500-HB

OnSite subcontracted sample analyses to the following labs:

Am Test, Inc. (AmTest), located in Kirkland, Washington, performed laboratory analysis on the groundwater samples using the following methods:

- Volatile Organic Compounds (VOCs) by Method EPA624;

- Semi-volatile Organic Compounds (SVOCs) by Method EPA625; and
- Amenable Cyanide by Method SM4500-CN-G99

Fremont Analytical, Inc. (Fremont), located in Seattle, Washington, performed laboratory analysis on the groundwater samples using the following method:

- Flashpoint by Method EPA1010

Data Validation Summary

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided all required deliverables for the data validation according to the National Functional Guidelines, with exception of the laboratory sample receipt form. The laboratory followed adequate corrective action processes and all identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The laboratory did not include the sample receipt forms that discuss any anomalies with the samples once they are received by the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses, with the exception identified below. The samples were stored at the laboratory at the appropriate temperatures of between two and six degrees Celsius; however, since the laboratory did not include the sample receipt forms, the sample cooler temperatures could not be verified that they were within the control limits upon arrival at the laboratory.

SDG 1503-056: (pH) The 15-minute holding time for pH was exceeded in Samples B-B-BPR-8P, DWR2-MW1, and DWR2-MW2. The results for pH were qualified as estimated (J) in these samples.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. All surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

SDG 1502-257: (PAHs) The percent recovery for surrogate 2-Fluorobiphenyl was greater than the control limits in Samples EL111-HA-1-1.5-2 and EL111-HA-3-0-0.5; however, the samples were spiked with two additional surrogates and in each case the percent recoveries were within their respective control limits. No action was required for these outliers.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in any of the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if any element percent recoveries were outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 1502-257: (Pesticides) The laboratory performed an MS/MSD sample set with percent recovery outliers; however, it was performed on a sample that was not associated with any of the project batch samples. For this reason, no action was required for these outliers.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified

in the laboratory documents. For inorganic analyses, the RPD control limit is 20 percent for water samples and 35 percent for soil samples. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 1503-061: (NWTPH-Dx) The laboratory performed a laboratory duplicate on Sample EL111-DP6-2-3. The RPD for lube-oil range hydrocarbons was greater than the control limit. The positive result for this target analyte was qualified as estimated (J) in this sample.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory RPD values, with the exceptions noted above.

All data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
B-B-BPR-8P	pH	J	Holding Time
DWR2-MW1	pH	J	Holding Time
DWR2-MW2	pH	J	Holding Time
EL111-DP6-2-3	Lube-oil range hydrocarbons	J	Lab Duplicate RPD

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," EPA-540-R-10-011. January 2010.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 23, 2015

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 4082-044-01-T0200
Laboratory Reference No. 1502-257

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on February 27, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

Case Narrative

Samples were collected on February 27, 2015 and received by the laboratory on February 27, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx Analysis

The MTCA Method A clean-up level of 30.0 ppm for fresh gasoline is not achievable for samples EL111-HA-1-1.5-2 and EL111-HA-3-1.5-2 due to the extremely low dry weight of the samples.

Organochlorine Pesticides by EPA 8081B Analysis

Due to negative effects of the matrix from samples EL111-HA-1-1.5-2, EL111-HA-3-0-0.5, and EL111-HA-3-1.5-2 on the instrument, values for Heptachlor, gamma-Chlordane, 4,4'-DDT, Endrin Aldehyde, Methoxychlor, and Endrin Ketone in the closing continuing calibration verification standards (CCVs) were low. Samples EL111-HA-2-0-0.5, EL111-HA-2-0.5-1, and EL111-HA-2-1-1.5 caused significant analytic breakdown in their closing CCVs where all but 4,4'-DDD were low on both columns. Sample EL111-HA-1-0-0.5 caused 4'-DDT and Methoxychlor to be low in its closing CCV. Since the degradation of the CCV standards was reproducible after re-injecting the sample extracts, the CCV degradation problem was attributed to the matrix of these samples.

PAHs EPA 8270D/SIM Analysis

The samples were extracted 1 hour out of holding time.

Samples EL111-HA-1-1.5-2 and EL111-HA-3-0-0.5 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EL111-HA-1-0-0.5	02-257-01	Soil	2-27-15	2-27-15	
EL111-HA-1-1.5-2	02-257-04	Soil	2-27-15	2-27-15	
EL111-HA-2-0-0.5	02-257-05	Soil	2-27-15	2-27-15	
EL111-HA-2-0.5-1	02-257-06	Soil	2-27-15	2-27-15	
EL111-HA-2-1-1.5	02-257-07	Soil	2-27-15	2-27-15	
EL111-HA-3-0-0.5	02-257-09	Soil	2-27-15	2-27-15	
EL111-HA-3-1.5-2	02-257-12	Soil	2-27-15	2-27-15	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-1-0-0.5					
Laboratory ID:	02-257-01					
Gasoline	ND	12	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	103	68-123				
Client ID:	EL111-HA-1-1.5-2					
Laboratory ID:	02-257-04					
Gasoline	ND	59	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	68-123				
Client ID:	EL111-HA-2-0-0.5					
Laboratory ID:	02-257-05					
Gasoline	ND	23	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	71	68-123				
Client ID:	EL111-HA-2-0.5-1					
Laboratory ID:	02-257-06					
Gasoline	ND	14	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	68-123				
Client ID:	EL111-HA-2-1-1.5					
Laboratory ID:	02-257-07					
Gasoline	ND	13	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	68-123				
Client ID:	EL111-HA-3-0-0.5					
Laboratory ID:	02-257-09					
Gasoline	ND	22	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	68-123				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-3-1.5-2					
Laboratory ID:	02-257-12					
Gasoline	ND	62	NWTPH-Gx	3-5-15	3-5-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>108</i>	<i>68-123</i>				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-1-0-0.5					
Laboratory ID:	02-257-01					
Diesel Range Organics	ND	83	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil Range Organics	360	86	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 89	Control Limits 50-150				
Client ID:	EL111-HA-1-1.5-2					
Laboratory ID:	02-257-04					
Diesel Range Organics	ND	250	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil Range Organics	1800	320	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 78	Control Limits 50-150				
Client ID:	EL111-HA-2-0-0.5					
Laboratory ID:	02-257-05					
Diesel Range Organics	ND	1100	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil	8000	750	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 83	Control Limits 50-150				
Client ID:	EL111-HA-2-0.5-1					
Laboratory ID:	02-257-06					
Diesel Range Organics	ND	150	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil	1200	110	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 101	Control Limits 50-150				
Client ID:	EL111-HA-2-1-1.5					
Laboratory ID:	02-257-07					
Diesel Range Organics	ND	130	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil	820	93	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 102	Control Limits 50-150				
Client ID:	EL111-HA-3-0-0.5					
Laboratory ID:	02-257-09					
Diesel Range Organics	ND	110	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil Range Organics	630	140	NWTPH-Dx	3-5-15	3-6-15	
Surrogate: o-Terphenyl	Percent Recovery 87	Control Limits 50-150				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-3-1.5-2					
Laboratory ID:	02-257-12					
Diesel Range Organics	ND	360	NWTPH-Dx	3-5-15	3-6-15	U1
Lube Oil Range Organics	2400	330	NWTPH-Dx	3-5-15	3-6-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-1-1.5-2						
Laboratory ID: 02-257-04						
Naphthalene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
2-Methylnaphthalene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
1-Methylnaphthalene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Acenaphthylene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Acenaphthene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Fluorene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Phenanthrene	0.068	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Anthracene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Fluoranthene	0.080	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Pyrene	0.074	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[a]anthracene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Chrysene	0.046	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[b]fluoranthene	0.060	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[j,k]fluoranthene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[a]pyrene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Indeno(1,2,3-c,d)pyrene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Dibenz[a,h]anthracene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[g,h,i]perylene	ND	0.043	EPA 8270D/SIM	3-13-15	3-20-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	115	32 - 114				Q
Pyrene-d10	79	33 - 121				
Terphenyl-d14	68	31 - 116				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-2-0.5-1						
Laboratory ID: 02-257-06						
Naphthalene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
2-Methylnaphthalene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
1-Methylnaphthalene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Acenaphthylene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Acenaphthene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Fluorene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Phenanthrene	0.24	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Anthracene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Fluoranthene	0.39	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Pyrene	0.36	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Benzo[a]anthracene	0.14	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Chrysene	0.22	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Benzo[b]fluoranthene	0.24	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Benzo[j,k]fluoranthene	0.091	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Benzo[a]pyrene	0.15	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	0.10	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
Benzo[g,h,i]perylene	0.15	0.070	EPA 8270D/SIM	3-13-15	3-19-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	66	32 - 114				
Pyrene-d10	75	33 - 121				
Terphenyl-d14	102	31 - 116				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-3-0-0.5						
Laboratory ID: 02-257-09						
Naphthalene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
2-Methylnaphthalene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
1-Methylnaphthalene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Acenaphthylene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Acenaphthene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Fluorene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Phenanthrene	0.025	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Anthracene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Fluoranthene	0.024	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Pyrene	0.026	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[a]anthracene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Chrysene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[b]fluoranthene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[j,k]fluoranthene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[a]pyrene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Indeno(1,2,3-c,d)pyrene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Dibenz[a,h]anthracene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Benzo[g,h,i]perylene	ND	0.019	EPA 8270D/SIM	3-13-15	3-20-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	120	32 - 114				Q
Pyrene-d10	77	33 - 121				
Terphenyl-d14	72	31 - 116				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-1-0-0.5					
Laboratory ID:	02-257-01					
alpha-BHC	ND	8.6	EPA 8081B	3-6-15	3-9-15	
gamma-BHC	ND	8.6	EPA 8081B	3-6-15	3-9-15	
beta-BHC	ND	8.6	EPA 8081B	3-6-15	3-9-15	
delta-BHC	ND	8.6	EPA 8081B	3-6-15	3-9-15	
Heptachlor	ND	8.6	EPA 8081B	3-6-15	3-9-15	
Aldrin	ND	8.6	EPA 8081B	3-6-15	3-9-15	
Heptachlor Epoxide	ND	8.6	EPA 8081B	3-6-15	3-9-15	
gamma-Chlordane	ND	17	EPA 8081B	3-6-15	3-9-15	
alpha-Chlordane	ND	17	EPA 8081B	3-6-15	3-9-15	
4,4'-DDE	74	17	EPA 8081B	3-6-15	3-9-15	
Endosulfan I	ND	8.6	EPA 8081B	3-6-15	3-9-15	
Dieldrin	ND	17	EPA 8081B	3-6-15	3-9-15	
Endrin	ND	17	EPA 8081B	3-6-15	3-9-15	
4,4'-DDD	190	17	EPA 8081B	3-6-15	3-9-15	
Endosulfan II	ND	17	EPA 8081B	3-6-15	3-9-15	
4,4'-DDT	ND	17	EPA 8081B	3-6-15	3-9-15	
Endrin Aldehyde	ND	17	EPA 8081B	3-6-15	3-9-15	
Methoxychlor	ND	17	EPA 8081B	3-6-15	3-9-15	
Endosulfan Sulfate	ND	17	EPA 8081B	3-6-15	3-9-15	
Endrin Ketone	ND	17	EPA 8081B	3-6-15	3-9-15	
Toxaphene	ND	86	EPA 8081B	3-6-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	37-112				
DCB	80	37-129				

Date of Report: March 23, 2015
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-1-1.5-2					
Laboratory ID:	02-257-04					
alpha-BHC	ND	32	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	32	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	32	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	32	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	32	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	32	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	32	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	64	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	64	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	64	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	32	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	64	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	64	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	440	64	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	64	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	64	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	64	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	64	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	64	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	64	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	320	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	55	37-112				
DCB	62	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-2-0-0.5					
Laboratory ID:	02-257-05					
alpha-BHC	ND	15	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	15	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	15	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	15	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	15	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	15	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	15	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	30	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	30	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	30	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	15	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	30	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	30	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	ND	30	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	30	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	30	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	30	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	30	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	30	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	30	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	150	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	51	37-112				
DCB	66	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-2-0.5-1					
Laboratory ID:	02-257-06					
alpha-BHC	ND	10	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	10	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	10	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	10	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	10	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	10	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	10	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	21	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	21	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	21	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	10	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	21	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	21	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	ND	21	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	21	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	21	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	21	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	21	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	21	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	21	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	100	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	58	37-112				
DCB	66	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-2-1-1.5					
Laboratory ID:	02-257-07					
alpha-BHC	ND	9.3	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	9.3	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	9.3	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	9.3	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	9.3	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	9.3	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	9.3	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	19	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	19	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	19	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	9.3	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	19	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	19	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	37	19	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	19	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	19	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	19	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	19	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	19	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	19	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	93	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	60	37-112				
DCB	67	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-3-0-0.5					
Laboratory ID:	02-257-09					
alpha-BHC	ND	14	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	14	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	14	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	14	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	14	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	14	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	14	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	28	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	28	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	28	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	14	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	28	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	28	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	140	28	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	28	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	28	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	28	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	28	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	28	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	28	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	140	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	37-112				
DCB	72	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-3-1.5-2					
Laboratory ID:	02-257-12					
alpha-BHC	ND	33	EPA 8081B	3-6-15	3-10-15	
gamma-BHC	ND	33	EPA 8081B	3-6-15	3-10-15	
beta-BHC	ND	33	EPA 8081B	3-6-15	3-10-15	
delta-BHC	ND	33	EPA 8081B	3-6-15	3-10-15	
Heptachlor	ND	33	EPA 8081B	3-6-15	3-10-15	
Aldrin	ND	33	EPA 8081B	3-6-15	3-10-15	
Heptachlor Epoxide	ND	33	EPA 8081B	3-6-15	3-10-15	
gamma-Chlordane	ND	65	EPA 8081B	3-6-15	3-10-15	
alpha-Chlordane	ND	65	EPA 8081B	3-6-15	3-10-15	
4,4'-DDE	ND	65	EPA 8081B	3-6-15	3-10-15	
Endosulfan I	ND	33	EPA 8081B	3-6-15	3-10-15	
Dieldrin	ND	65	EPA 8081B	3-6-15	3-10-15	
Endrin	ND	65	EPA 8081B	3-6-15	3-10-15	
4,4'-DDD	580	65	EPA 8081B	3-6-15	3-10-15	
Endosulfan II	ND	65	EPA 8081B	3-6-15	3-10-15	
4,4'-DDT	ND	65	EPA 8081B	3-6-15	3-10-15	
Endrin Aldehyde	ND	65	EPA 8081B	3-6-15	3-10-15	
Methoxychlor	ND	65	EPA 8081B	3-6-15	3-10-15	
Endosulfan Sulfate	ND	65	EPA 8081B	3-6-15	3-10-15	
Endrin Ketone	ND	65	EPA 8081B	3-6-15	3-10-15	
Toxaphene	ND	330	EPA 8081B	3-6-15	3-10-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	56	37-112				
DCB	68	37-129				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-1-0-0.5						
Laboratory ID: 02-257-01						
Dalapon	ND	390	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	16	EPA 8151A	3-9-15	3-9-15	
MCP	ND	1600	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	1600	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	120	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	16	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	8.2	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	16	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	16	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	16	EPA 8151A	3-9-15	3-9-15	

Surrogate: Percent Recovery Control Limits
 DCAA 53 20-105

Client ID: EL111-HA-1-1.5-2						
Laboratory ID: 02-257-04						
Dalapon	ND	1500	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	60	EPA 8151A	3-9-15	3-9-15	
MCP	ND	6000	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	6000	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	450	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	60	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	30	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	61	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	61	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	61	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	61	EPA 8151A	3-9-15	3-9-15	

Surrogate: Percent Recovery Control Limits
 DCAA 48 20-105

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-2-0-0.5						
Laboratory ID: 02-257-05						
Dalapon	ND	680	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	28	EPA 8151A	3-9-15	3-9-15	
MCP	ND	2800	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	2800	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	210	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	28	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	14	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	28	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	28	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	28	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	28	EPA 8151A	3-9-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
DCAA	49	20-105				
Client ID: EL111-HA-2-0.5-1						
Laboratory ID: 02-257-06						
Dalapon	ND	480	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	20	EPA 8151A	3-9-15	3-9-15	
MCP	ND	2000	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	2000	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	150	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	20	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	10	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	20	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	20	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	20	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	20	EPA 8151A	3-9-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
DCAA	55	20-105				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-HA-2-1-1.5						
Laboratory ID: 02-257-07						
Dalapon	ND	430	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	17	EPA 8151A	3-9-15	3-9-15	
MCP	ND	1700	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	1700	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	130	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	17	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	8.8	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	18	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	18	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	18	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	18	EPA 8151A	3-9-15	3-9-15	

Surrogate: Percent Recovery Control Limits
 DCAA 64 20-105

Client ID: EL111-HA-3-0-0.5						
Laboratory ID: 02-257-09						
Dalapon	ND	650	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	27	EPA 8151A	3-9-15	3-9-15	
MCP	ND	2700	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	2700	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	200	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	27	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	14	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	27	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	27	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	27	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	27	EPA 8151A	3-9-15	3-9-15	

Surrogate: Percent Recovery Control Limits
 DCAA 68 20-105

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-HA-3-1.5-2					
Laboratory ID:	02-257-12					
Dalapon	ND	1500	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	62	EPA 8151A	3-9-15	3-9-15	
MCPD	ND	6100	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	6100	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	460	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	62	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	31	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	62	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	62	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	62	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	62	EPA 8151A	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	79	20-105				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
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 Project: 4082-044-01-T0200

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	02-257-01					
Client ID:	EL111-HA-1-0-0.5					
Arsenic	ND	17	6010C	3-6-15	3-6-15	
Barium	100	4.3	6010C	3-6-15	3-6-15	
Cadmium	ND	0.86	6010C	3-6-15	3-6-15	
Chromium	51	0.86	6010C	3-6-15	3-6-15	
Lead	12	8.6	6010C	3-6-15	3-6-15	
Mercury	ND	0.43	7471B	3-6-15	3-6-15	
Selenium	ND	17	6010C	3-6-15	3-6-15	
Silver	ND	1.7	6010C	3-6-15	3-6-15	

Lab ID:	02-257-04				
Client ID:	EL111-HA-1-1.5-2				
Arsenic	ND	16	6020A	3-10-15	3-10-15
Barium	94	16	6010C	3-6-15	3-6-15
Cadmium	ND	1.6	6020A	3-10-15	3-10-15
Chromium	16	3.2	6010C	3-6-15	3-6-15
Lead	ND	32	6010C	3-6-15	3-6-15
Mercury	ND	1.6	7471B	3-6-15	3-6-15
Selenium	ND	64	6010C	3-6-15	3-6-15
Silver	ND	6.4	6010C	3-6-15	3-6-15

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-257-05					
Client ID:	EL111-HA-2-0-0.5					
Arsenic	ND	15	6010C	3-6-15	3-6-15	
Barium	140	7.5	6010C	3-6-15	3-6-15	
Cadmium	ND	1.5	6010C	3-6-15	3-6-15	
Chromium	67	1.5	6010C	3-6-15	3-6-15	
Lead	73	15	6010C	3-6-15	3-6-15	
Mercury	ND	0.75	7471B	3-6-15	3-6-15	
Selenium	ND	30	6010C	3-6-15	3-6-15	
Silver	ND	3.0	6010C	3-6-15	3-6-15	

Lab ID:	02-257-06					
Client ID:	EL111-HA-2-0.5-1					
Arsenic	ND	10	6010C	3-6-15	3-6-15	
Barium	76	5.2	6010C	3-6-15	3-6-15	
Cadmium	ND	1.0	6010C	3-6-15	3-6-15	
Chromium	33	1.0	6010C	3-6-15	3-6-15	
Lead	30	10	6010C	3-6-15	3-6-15	
Mercury	ND	0.52	7471B	3-6-15	3-6-15	
Selenium	ND	21	6010C	3-6-15	3-6-15	
Silver	ND	2.1	6010C	3-6-15	3-6-15	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-257-07					
Client ID:	EL111-HA-2-1-1.5					
Arsenic	ND	19	6010C	3-6-15	3-6-15	
Barium	75	4.6	6010C	3-6-15	3-6-15	
Cadmium	ND	0.93	6010C	3-6-15	3-6-15	
Chromium	35	0.93	6010C	3-6-15	3-6-15	
Lead	15	9.3	6010C	3-6-15	3-6-15	
Mercury	ND	0.46	7471B	3-6-15	3-6-15	
Selenium	ND	19	6010C	3-6-15	3-6-15	
Silver	ND	1.9	6010C	3-6-15	3-6-15	

Lab ID:	02-257-09					
Client ID:	EL111-HA-3-0-0.5					
Arsenic	ND	14	6010C	3-6-15	3-6-15	
Barium	82	7.1	6010C	3-6-15	3-6-15	
Cadmium	ND	1.4	6010C	3-6-15	3-6-15	
Chromium	33	1.4	6010C	3-6-15	3-6-15	
Lead	ND	14	6010C	3-6-15	3-6-15	
Mercury	ND	0.71	7471B	3-6-15	3-6-15	
Selenium	ND	28	6010C	3-6-15	3-6-15	
Silver	ND	2.8	6010C	3-6-15	3-6-15	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	02-257-12					
Client ID:	EL111-HA-3-1.5-2					
Arsenic	ND	16	6020A	3-10-15	3-10-15	
Barium	91	16	6010C	3-6-15	3-6-15	
Cadmium	ND	1.6	6020A	3-10-15	3-10-15	
Chromium	25	3.3	6010C	3-6-15	3-6-15	
Lead	ND	33	6010C	3-6-15	3-6-15	
Mercury	ND	1.6	7471B	3-6-15	3-6-15	
Selenium	ND	65	6010C	3-6-15	3-6-15	
Silver	ND	6.5	6010C	3-6-15	3-6-15	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A**

Matrix: Soil
Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	02-257-05					
Client ID:	EL111-HA-2-0-0.5					
Hexavalent Chromium	ND	3.0	7196A mod	3-20-15	3-20-15	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S1					
Gasoline	ND	5.0	NWTPH-Gx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	68-123				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-031-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				89	92	68-123		

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S1					
Diesel Range Organics	ND	25	NWTPH-Dx	3-5-15	3-5-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-243-02									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						107	94	50-150		

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0313S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	3-13-15	3-13-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	83	32 - 114				
Pyrene-d10	94	33 - 121				
Terphenyl-d14	94	31 - 116				

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0313S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0775	0.0724	0.0833	0.0833	93	87	63 - 113	7	19	
Acenaphthylene	0.0747	0.0707	0.0833	0.0833	90	85	61 - 125	6	16	
Acenaphthene	0.0758	0.0722	0.0833	0.0833	91	87	66 - 113	5	16	
Fluorene	0.0751	0.0720	0.0833	0.0833	90	86	60 - 117	4	16	
Phenanthrene	0.0871	0.0851	0.0833	0.0833	105	102	63 - 116	2	12	
Anthracene	0.113	0.107	0.0833	0.0833	136	128	66 - 141	5	19	
Fluoranthene	0.0835	0.0807	0.0833	0.0833	100	97	60 - 125	3	13	
Pyrene	0.0865	0.0834	0.0833	0.0833	104	100	66 - 126	4	15	
Benzo[a]anthracene	0.0938	0.0899	0.0833	0.0833	113	108	60 - 128	4	15	
Chrysene	0.0934	0.0896	0.0833	0.0833	112	108	60 - 117	4	13	
Benzo[b]fluoranthene	0.0831	0.0802	0.0833	0.0833	100	96	60 - 131	4	16	
Benzo(j,k)fluoranthene	0.0840	0.0775	0.0833	0.0833	101	93	57 - 126	8	20	
Benzo[a]pyrene	0.0862	0.0824	0.0833	0.0833	103	99	62 - 136	5	16	
Indeno(1,2,3-c,d)pyrene	0.0862	0.0865	0.0833	0.0833	103	104	60 - 127	0	19	
Dibenz[a,h]anthracene	0.0859	0.0878	0.0833	0.0833	103	105	62 - 133	2	22	
Benzo[g,h,i]perylene	0.0966	0.103	0.0833	0.0833	116	124	63 - 129	6	22	
Surrogate:										
2-Fluorobiphenyl					88	84	32 - 114			
Pyrene-d10					99	97	33 - 121			
Terphenyl-d14					97	93	31 - 116			

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0306S2					
alpha-BHC	ND	5.0	EPA 8081B	3-6-15	3-9-15	
gamma-BHC	ND	5.0	EPA 8081B	3-6-15	3-9-15	
beta-BHC	ND	5.0	EPA 8081B	3-6-15	3-9-15	
delta-BHC	ND	5.0	EPA 8081B	3-6-15	3-9-15	
Heptachlor	ND	5.0	EPA 8081B	3-6-15	3-9-15	
Aldrin	ND	5.0	EPA 8081B	3-6-15	3-9-15	
Heptachlor Epoxide	ND	5.0	EPA 8081B	3-6-15	3-9-15	
gamma-Chlordane	ND	10	EPA 8081B	3-6-15	3-9-15	
alpha-Chlordane	ND	10	EPA 8081B	3-6-15	3-9-15	
4,4'-DDE	ND	10	EPA 8081B	3-6-15	3-9-15	
Endosulfan I	ND	5.0	EPA 8081B	3-6-15	3-9-15	
Dieldrin	ND	10	EPA 8081B	3-6-15	3-9-15	
Endrin	ND	10	EPA 8081B	3-6-15	3-9-15	
4,4'-DDD	ND	10	EPA 8081B	3-6-15	3-9-15	
Endosulfan II	ND	10	EPA 8081B	3-6-15	3-9-15	
4,4'-DDT	ND	10	EPA 8081B	3-6-15	3-9-15	
Endrin Aldehyde	ND	10	EPA 8081B	3-6-15	3-9-15	
Methoxychlor	ND	10	EPA 8081B	3-6-15	3-9-15	
Endosulfan Sulfate	ND	10	EPA 8081B	3-6-15	3-9-15	
Endrin Ketone	ND	10	EPA 8081B	3-6-15	3-9-15	
Toxaphene	ND	50	EPA 8081B	3-6-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
TCMX	82	37-112				
DCB	97	37-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES								
Laboratory ID:	03-002-05							
	MS	MSD	MS	MSD	MS	MSD		
gamma-BHC	56.5	54.8	50.0	50.0	ND	113 110	44-106	3 19 I,I
Heptachlor	48.8	47.2	50.0	50.0	ND	98 94	34-109	3 20
Aldrin	54.7	54.5	50.0	50.0	ND	109 109	41-109	0 21
Dieldrin	128	126	125	125	ND	102 101	34-111	2 21
Endrin	142	138	125	125	ND	113 110	38-116	3 20
4,4'-DDT	NA	NA	125	125	1210	NA NA	31-110	NA 22 A
Surrogate:								
TCMX					75	75	37-112	
DCB					84	86	37-129	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**CHLORINATED ACID
 HERBICIDES EPA 8151A
 QUALITY CONTROL**

Matrix: Soil
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309S1					
Dalapon	ND	230	EPA 8151A	3-9-15	3-9-15	
Dicamba	ND	9.4	EPA 8151A	3-9-15	3-9-15	
MCP	ND	940	EPA 8151A	3-9-15	3-9-15	
MCPA	ND	940	EPA 8151A	3-9-15	3-9-15	
Dichlorprop	ND	71	EPA 8151A	3-9-15	3-9-15	
2,4-D	ND	9.4	EPA 8151A	3-9-15	3-9-15	
Pentachlorophenol	ND	4.8	EPA 8151A	3-9-15	3-9-15	
2,4,5-TP (Silvex)	ND	9.5	EPA 8151A	3-9-15	3-9-15	
2,4,5-T	ND	9.5	EPA 8151A	3-9-15	3-9-15	
2,4-DB	ND	9.5	EPA 8151A	3-9-15	3-9-15	
Dinoseb	ND	9.5	EPA 8151A	3-9-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
DCAA	42	20-105				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	03-006-01									
	MS	MSD	MS	MSD		MS	MSD			
Dicamba	60.7	67.0	100	100	ND	61	67	24-89	10	21
2,4-D	50.2	52.7	100	100	ND	50	53	10-88	5	23
Pentachlorophenol	6.29	6.89	10.0	10.0	ND	63	69	25-118	9	26
2,4,5-T	56.5	61.5	100	100	ND	57	61	27-78	8	19
2,4-DB	53.6	54.7	100	100	ND	54	55	22-89	2	23
Surrogate:										
DCAA						65	66	20-105		

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-6-15
Date Analyzed: 3-6-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0306SM2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	5.0
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL METALS
EPA 6020A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-10-15
Date Analyzed: 3-10-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0306SM2

Analyte	Method	Result	PQL
Arsenic	6020A	ND	2.5
Cadmium	6020A	ND	0.25

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-6-15
Date Analyzed: 3-6-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0306S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 3-6-15

Date Analyzed: 3-6-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 02-262-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	5.0	
Barium	37.0	39.3	6	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	8.95	8.90	1	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL METALS
EPA 6020A
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-10-15

Date Analyzed: 3-10-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 02-262-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	2.5	
Cadmium	ND	ND	NA	0.25	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-6-15

Date Analyzed: 3-6-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-037-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	

Date of Report: March 23, 2015
 Samples Submitted: February 27, 2015
 Laboratory Reference: 1502-257
 Project: 4082-044-01-T0200

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 3-6-15

Date Analyzed: 3-6-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 02-262-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	96.8	97	97.2	97	0	
Barium	100	151	114	141	104	6	
Cadmium	50.0	49.4	99	49.4	99	0	
Chromium	100	106	97	105	96	1	
Lead	250	252	101	251	100	0	
Selenium	100	96.5	96	94.1	94	3	
Silver	25.0	25.1	100	25.1	100	0	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**TOTAL METALS
EPA 6020A
MS/MSD QUALITY CONTROL**

Date Extracted: 3-10-15

Date Analyzed: 3-10-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 02-262-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	2.5	
Cadmium	ND	ND	NA	0.25	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL

Date Extracted: 3-6-15

Date Analyzed: 3-6-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-037-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.486	97	0.486	97	0	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-20-15
Date Analyzed: 3-20-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0320S1

Analyte	Method	Result	PQL
Hexavalent Chromium	7196A mod	ND	1.0

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-20-15
Date Analyzed: 3-20-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-257-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Hexavalent Chromium	ND	ND	NA	1.0	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

**SOLUBLE HEXAVALENT CHROMIUM
WATER EXTRACTION
EPA 7196A
MS/MSD QUALITY CONTROL**

Date Extracted: 3-20-15
Date Analyzed: 3-20-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-257-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Hexavalent Chromium	5.00	5.08	102	4.89	98	4	

Date of Report: March 23, 2015
Samples Submitted: February 27, 2015
Laboratory Reference: 1502-257
Project: 4082-044-01-T0200

% MOISTURE

Date Analyzed: 3-5-15

Client ID	Lab ID	% Moisture
EL111-HA-1-0-0.5	02-257-01	42
EL111-HA-1-1.5-2	02-257-04	84
EL111-HA-2-0-0.5	02-257-05	67
EL111-HA-2-0.5-1	02-257-06	52
EL111-HA-2-1-1.5	02-257-07	46
EL111-HA-3-0-0.5	02-257-09	65
EL111-HA-3-1.5-2	02-257-12	85



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Analytical Laboratory Testing Services
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Chain of Custody

Page 1 of 2

[illegible]

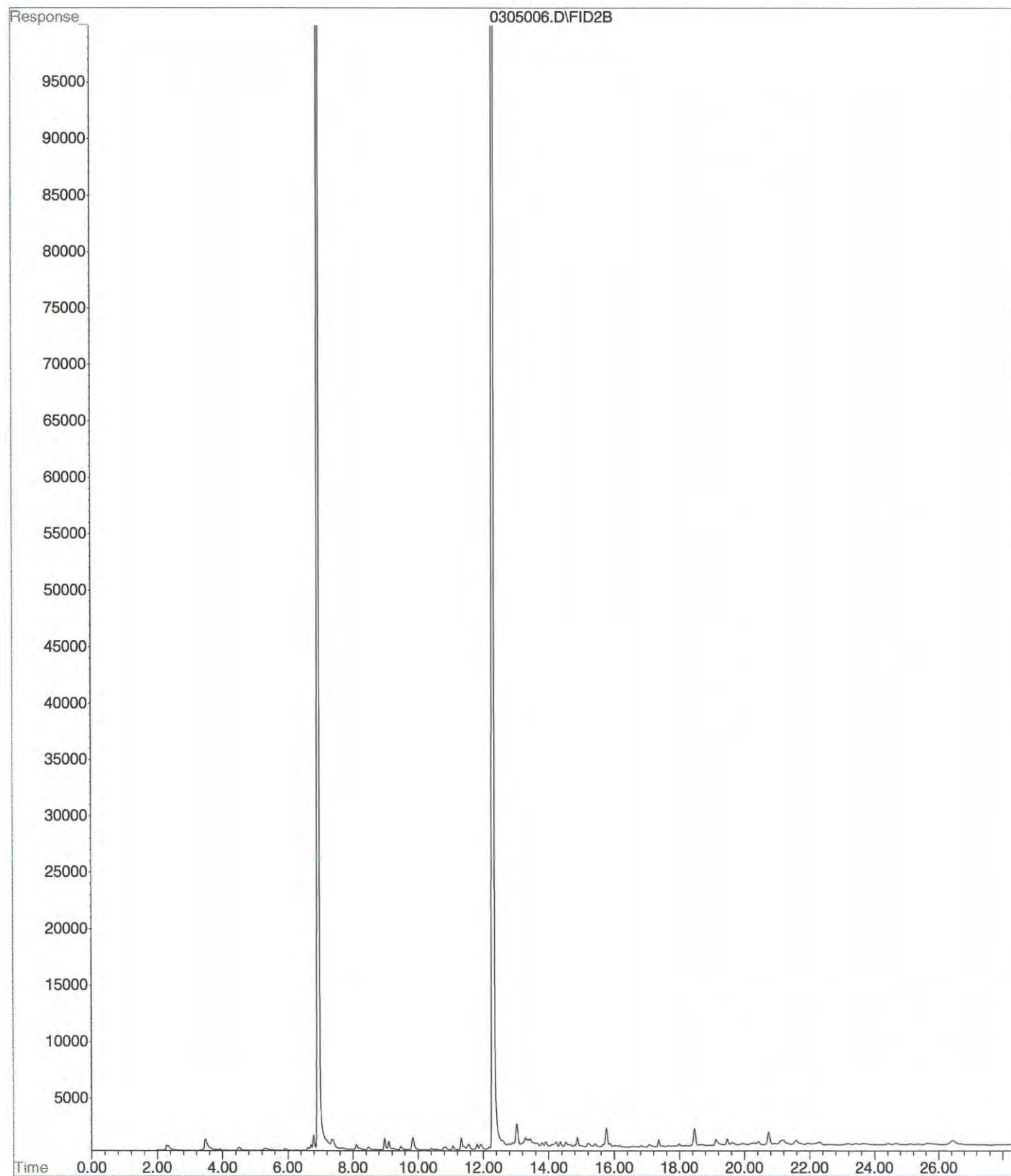


Chain of Custody

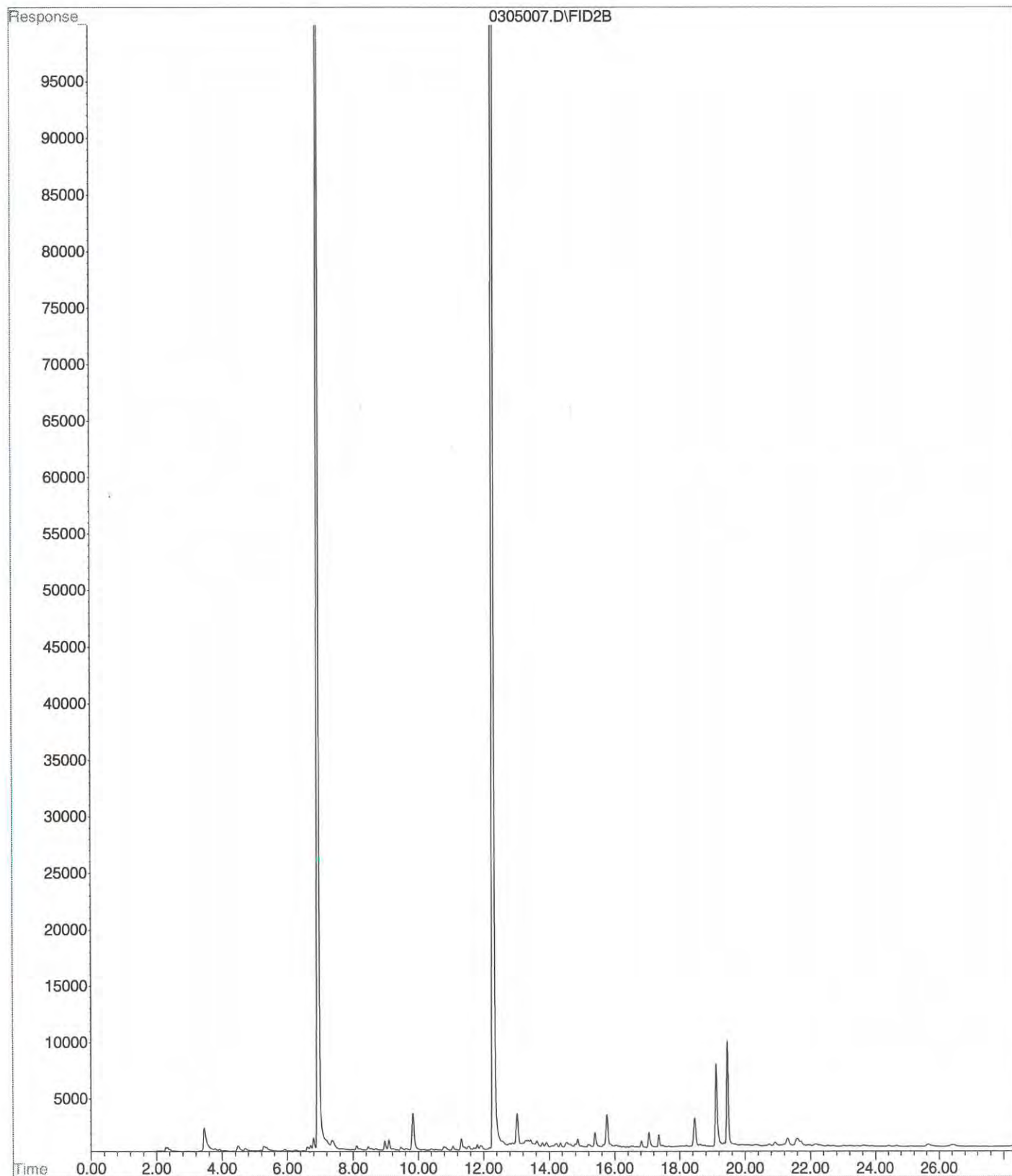
Page 2 of 2

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com					
Company: GeoEngineers					
Project Number: 4082-044-01 TD200					
Project Name: Sound Transit - Bellevue Parkland Rd					
Project Manager: Ticia DeOme					
Sampled by: Hannah McDonough					
☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) (TPH analysis 5 Days)					
(other) _____					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	GTD-HA-3-1-1.5	2/27/15	1450	Soil	5
12	GTD-HA-3-1.5-2	I	1500	I	5
					NWTPH-HCID
					NWTPH-Gx/BTEX
					NWTPH-Gx
					NWTPH-Dx
					Volatiles 8260C
					Halogenated Volatiles 8260C
					Semivolatiles 8270D/SIM (with low-level PAHs)
					PAHs 8270D/SIM (low-level)
					PCBs 8082A
					Organochlorine Pesticides 8081B
					Organophosphorus Pesticides 8270D/SIM
					Chlorinated Acid Herbicides 8151A
					Total RCRA Metals
					Total MTCA Metals
					TCLP Metals
					HEM (oil and grease) 1664A
					% Moisture
Turnaround Request (in working days)					
(Check One)					
Reviewed/Date					

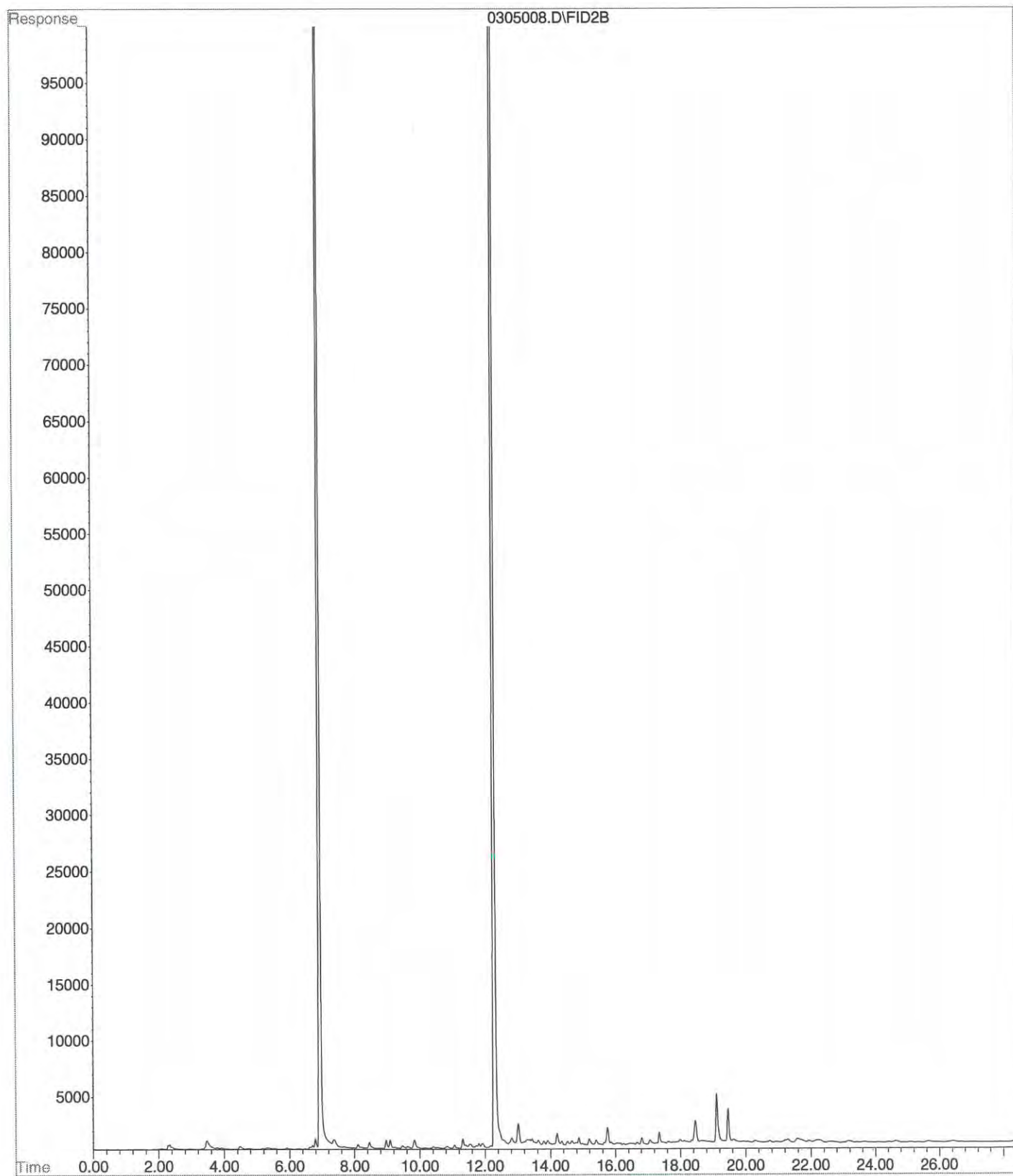
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Acquired : 5 Mar 2015 15:16 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-01s
Misc Info : V2-36-17
Vial Number: 6



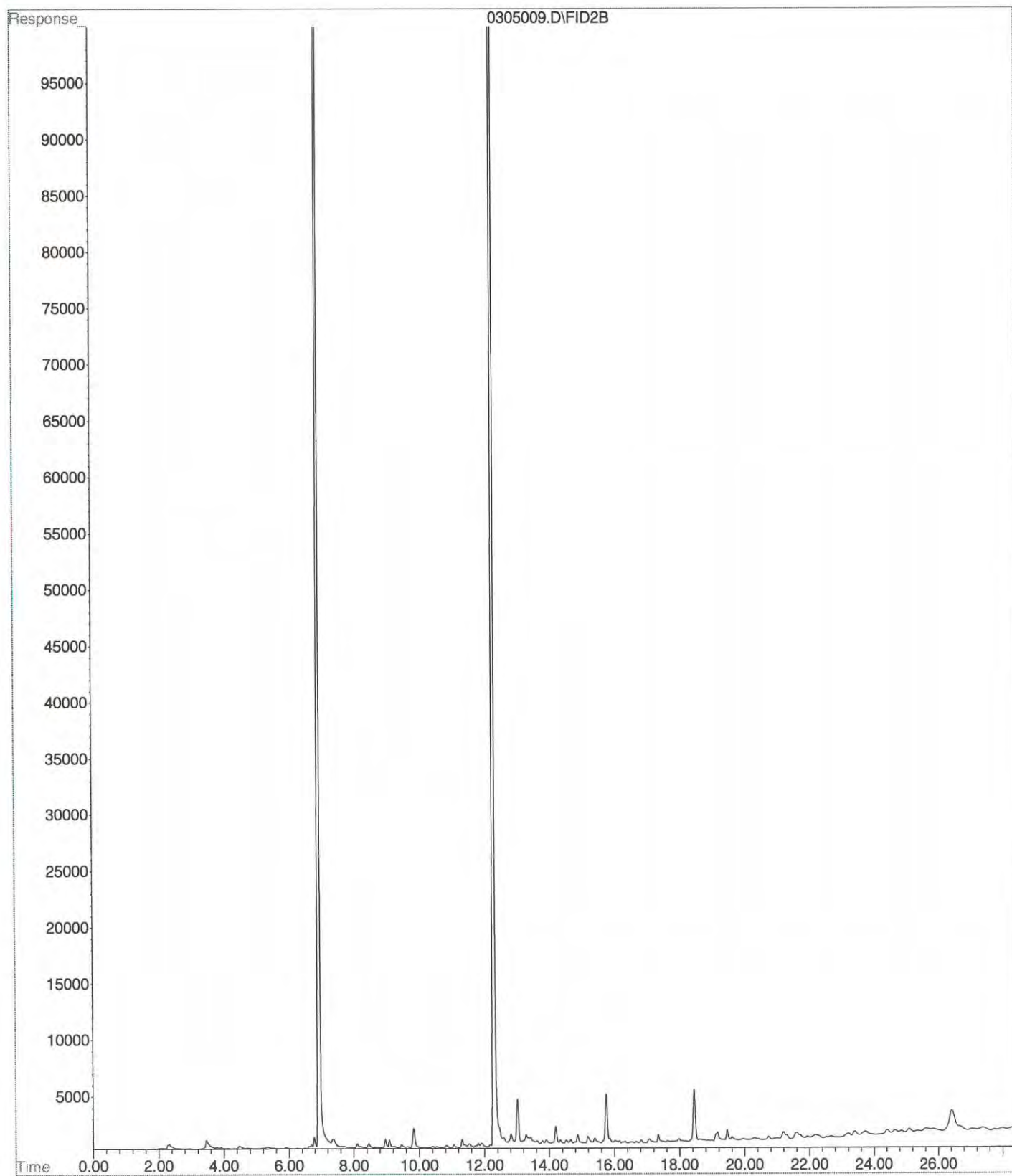
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Instrument : Daryl
Sample Name: 02-257-04s
Misc Info : V2-36-17
Vial Number: 7



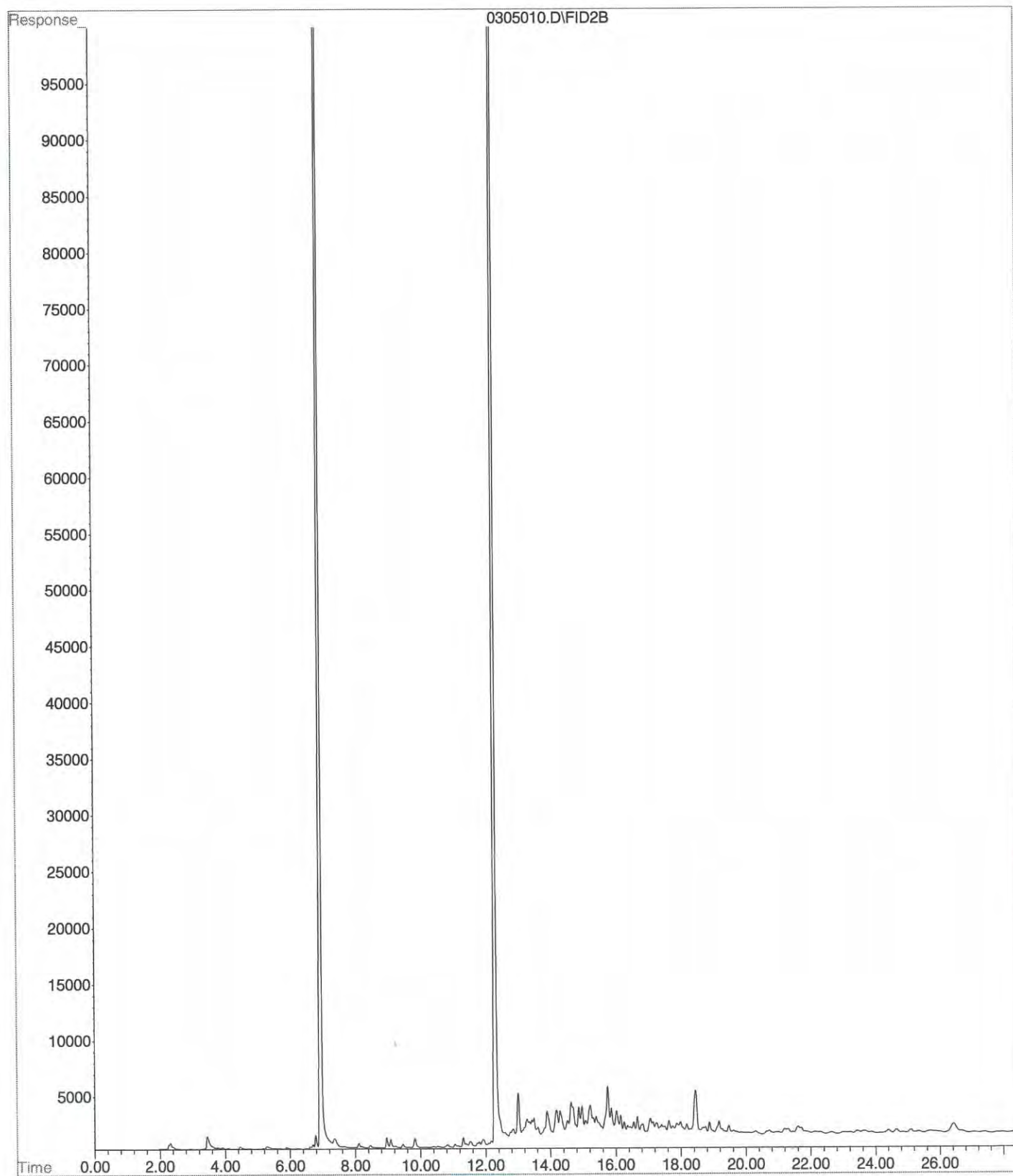
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Instrument : Daryl
Sample Name: 02-257-05s
Misc Info : V2-36-17
Vial Number: 8



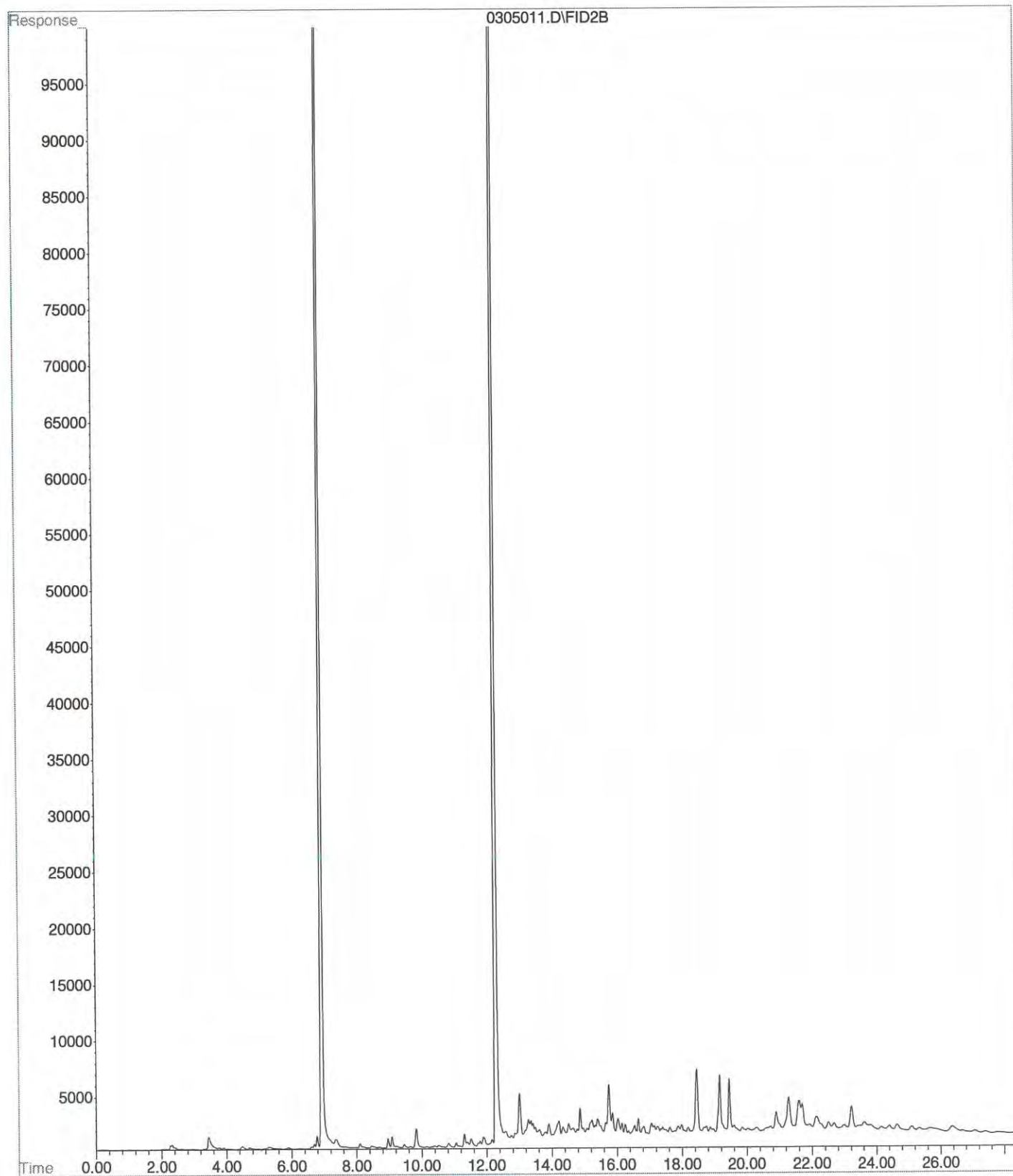
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Acquired : 5 Mar 2015 16:56 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-06s
Misc Info : V2-36-17
Vial Number: 9



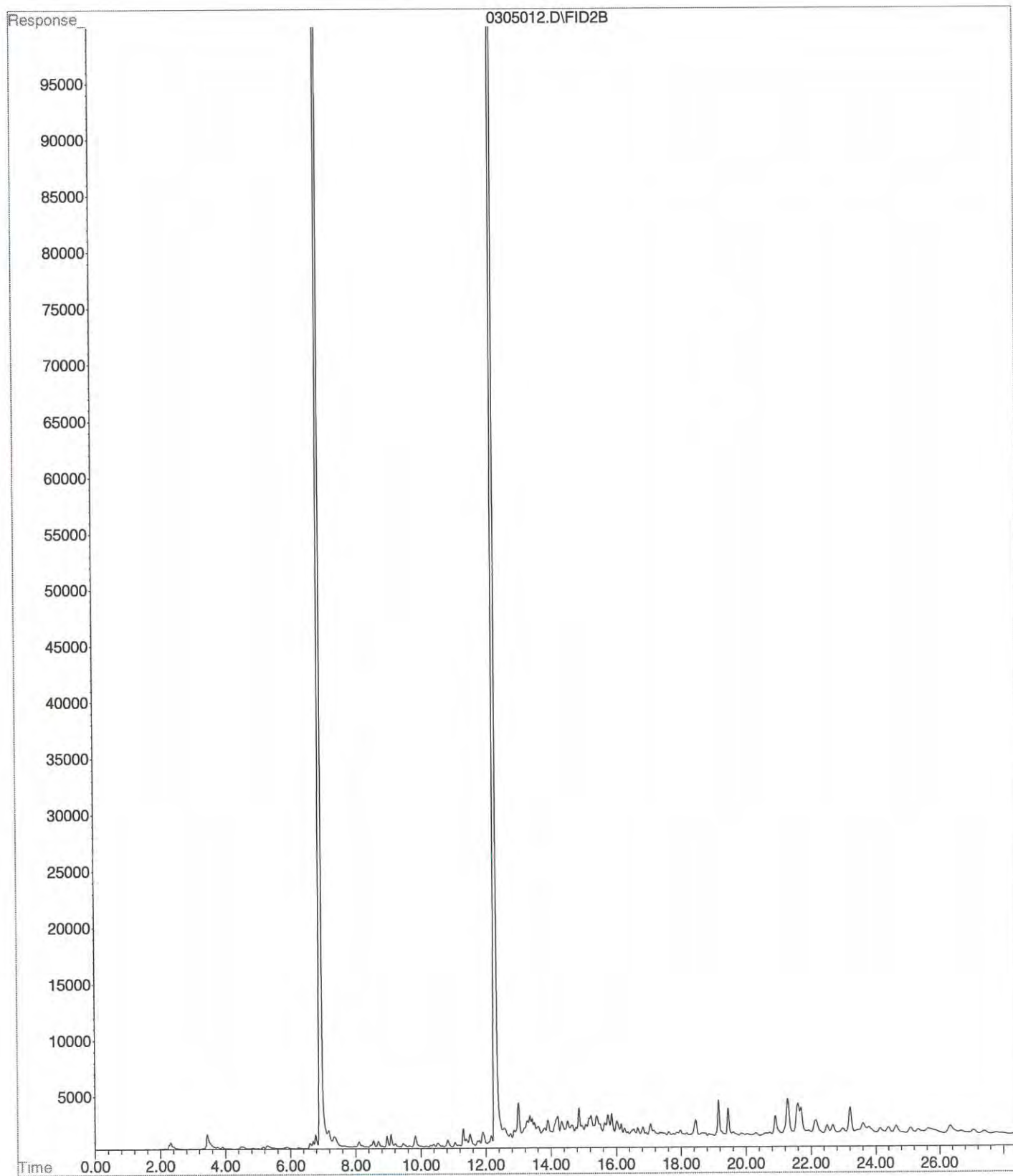
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Instrument : Daryl
Sample Name: 02-257-07s
Misc Info : V2-36-17
Vial Number: 10



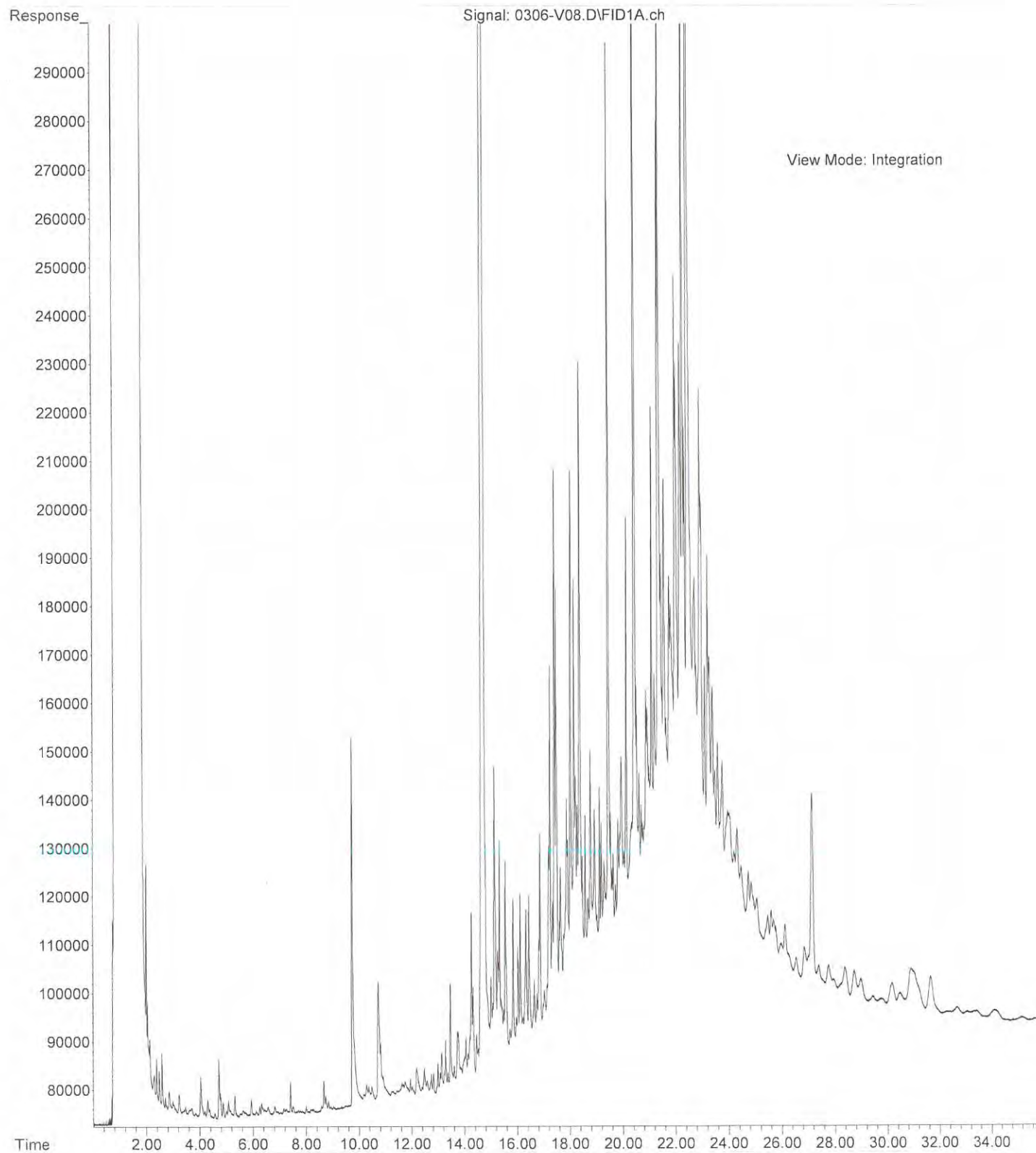
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Acquired : 5 Mar 2015 18:03 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-09s
Misc Info : V2-36-17
Vial Number: 11



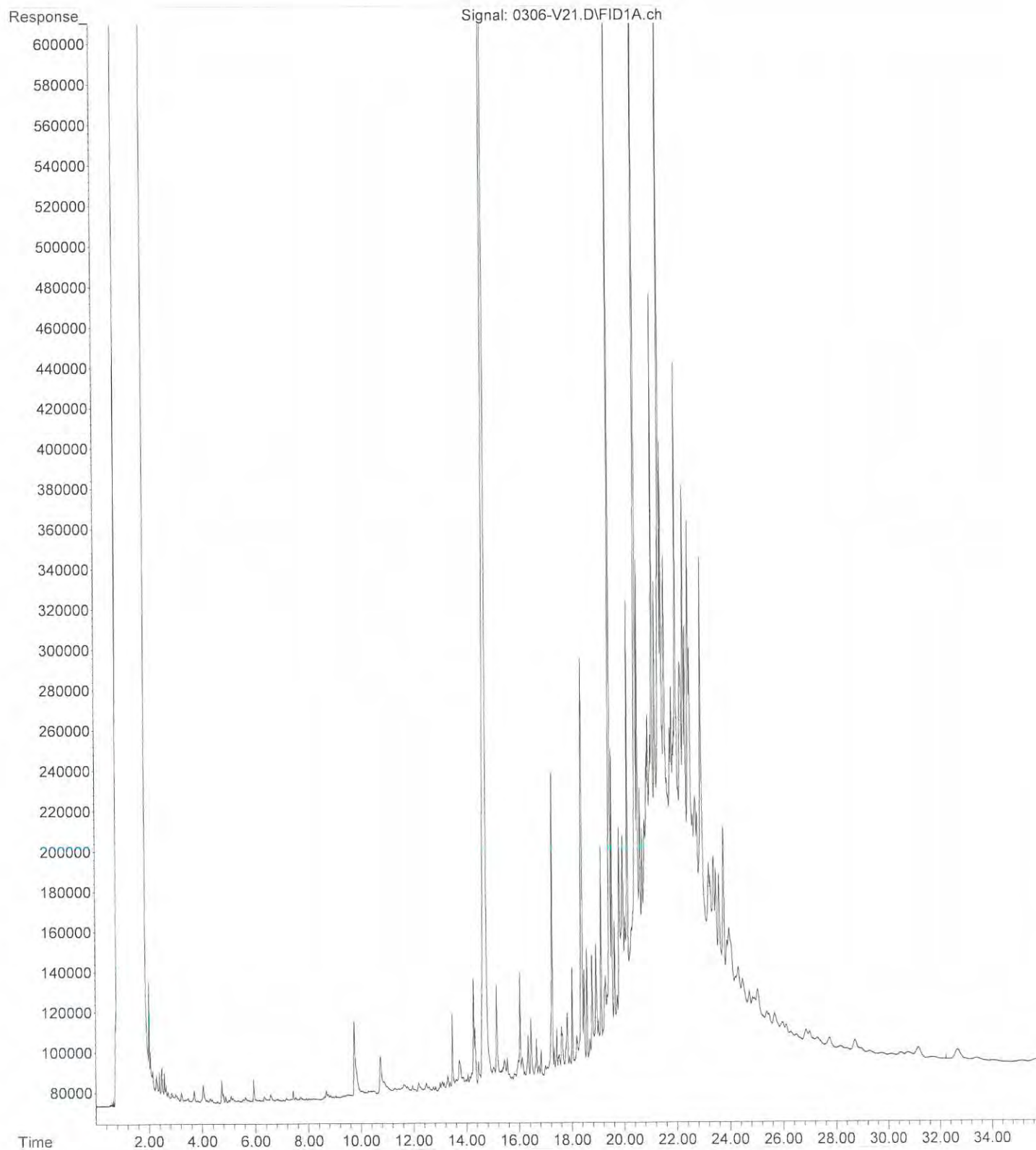
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Instrument : Daryl
Sample Name: 02-257-12s
Misc Info : V2-36-17
Vial Number: 12



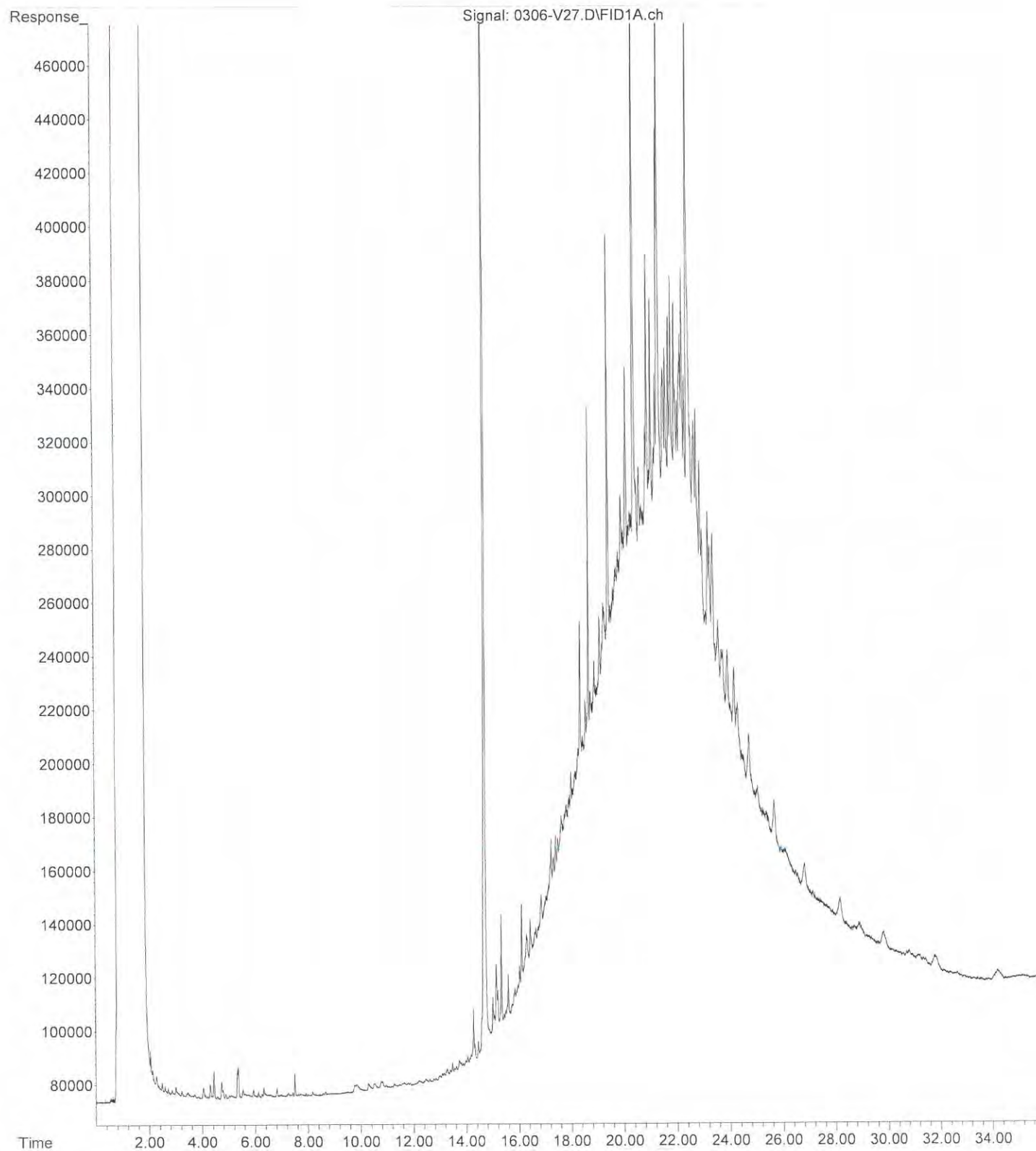
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Instrument : Vigo
Sample Name: 02-257-01
Misc Info :
Vial Number: 8



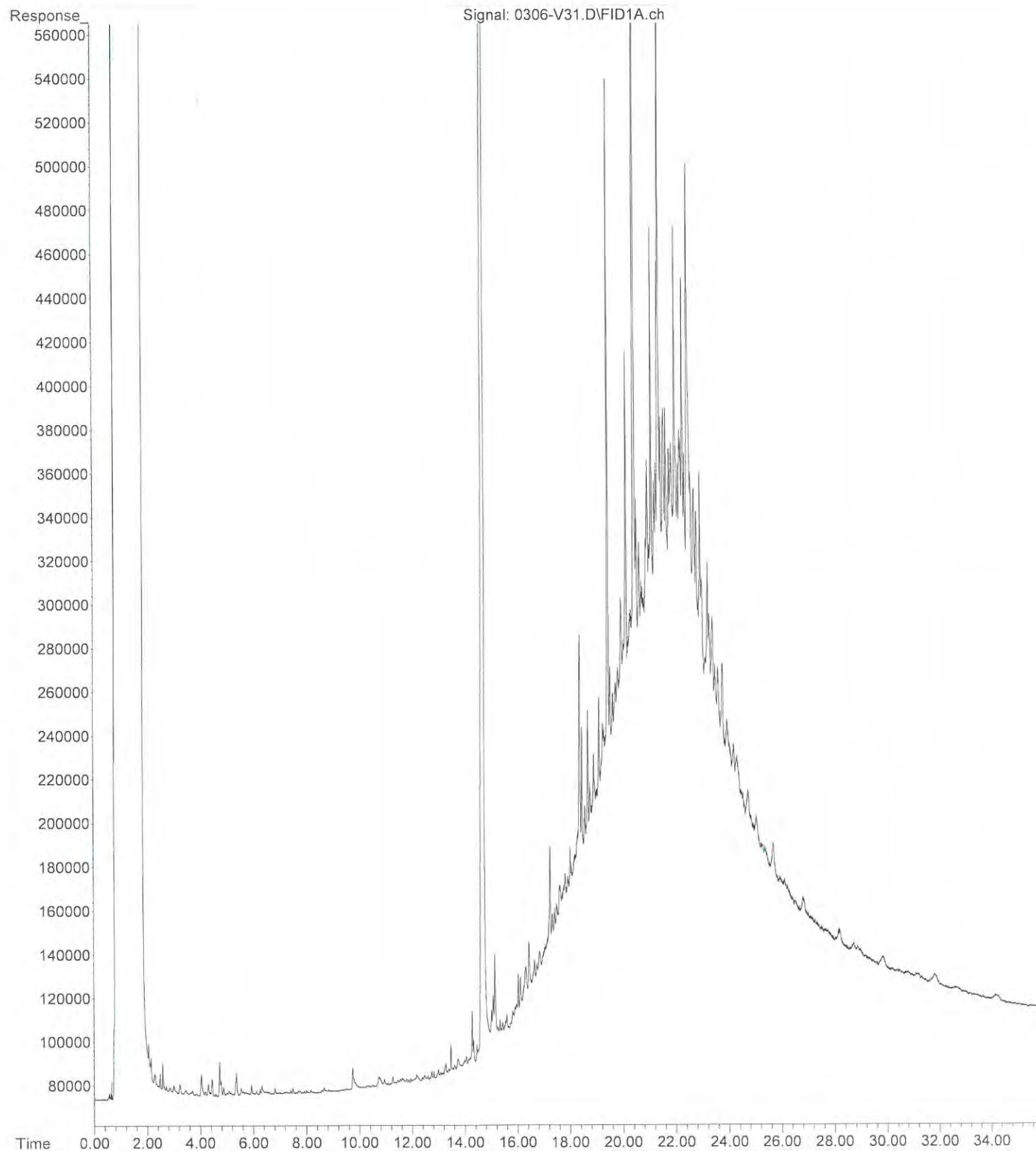
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Instrument : Vigo
Sample Name: 02-257-04
Misc Info :
Vial Number: 21



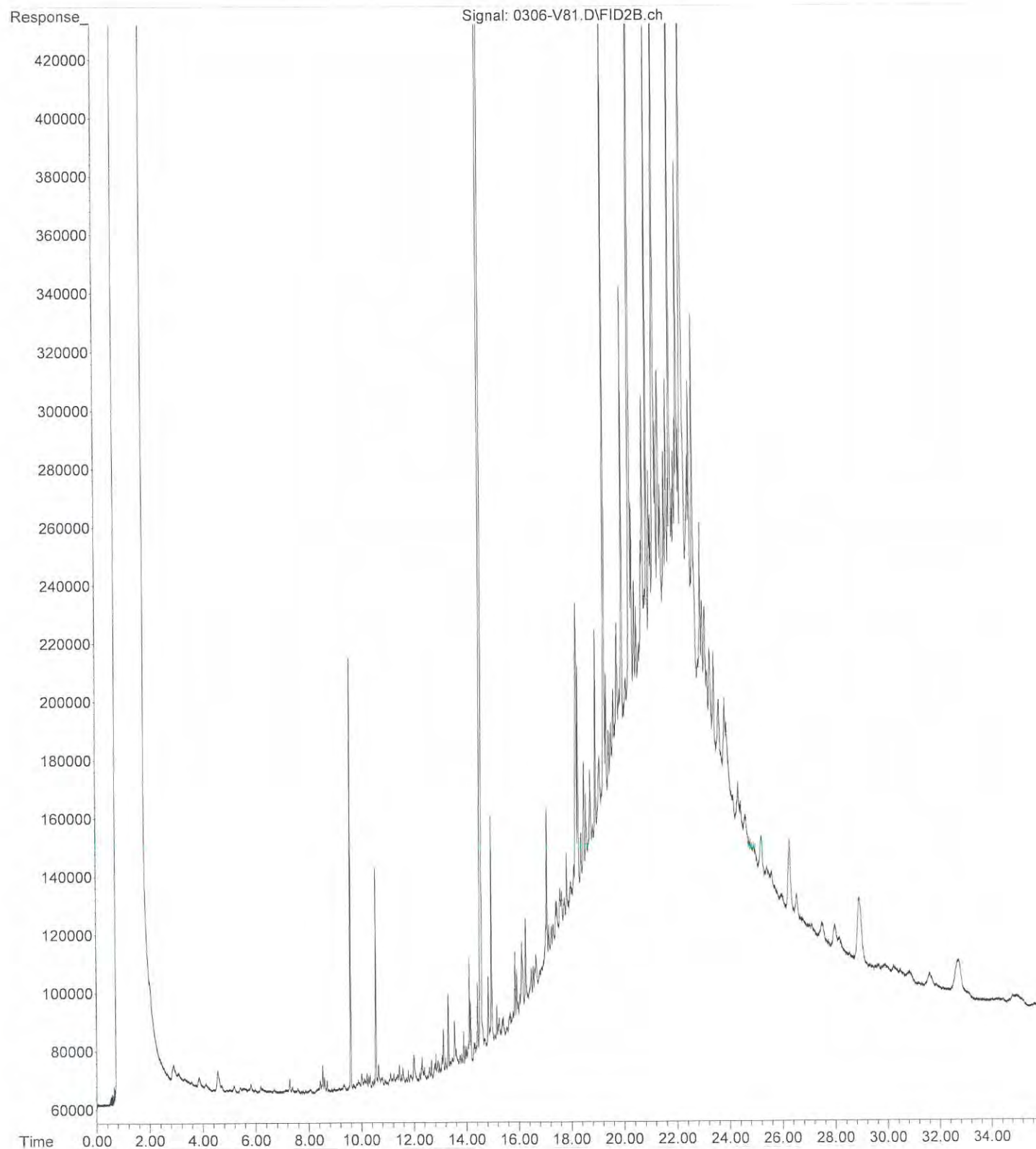
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Instrument : Vigo
Sample Name: 02-257-05 5X
Misc Info :
Vial Number: 27



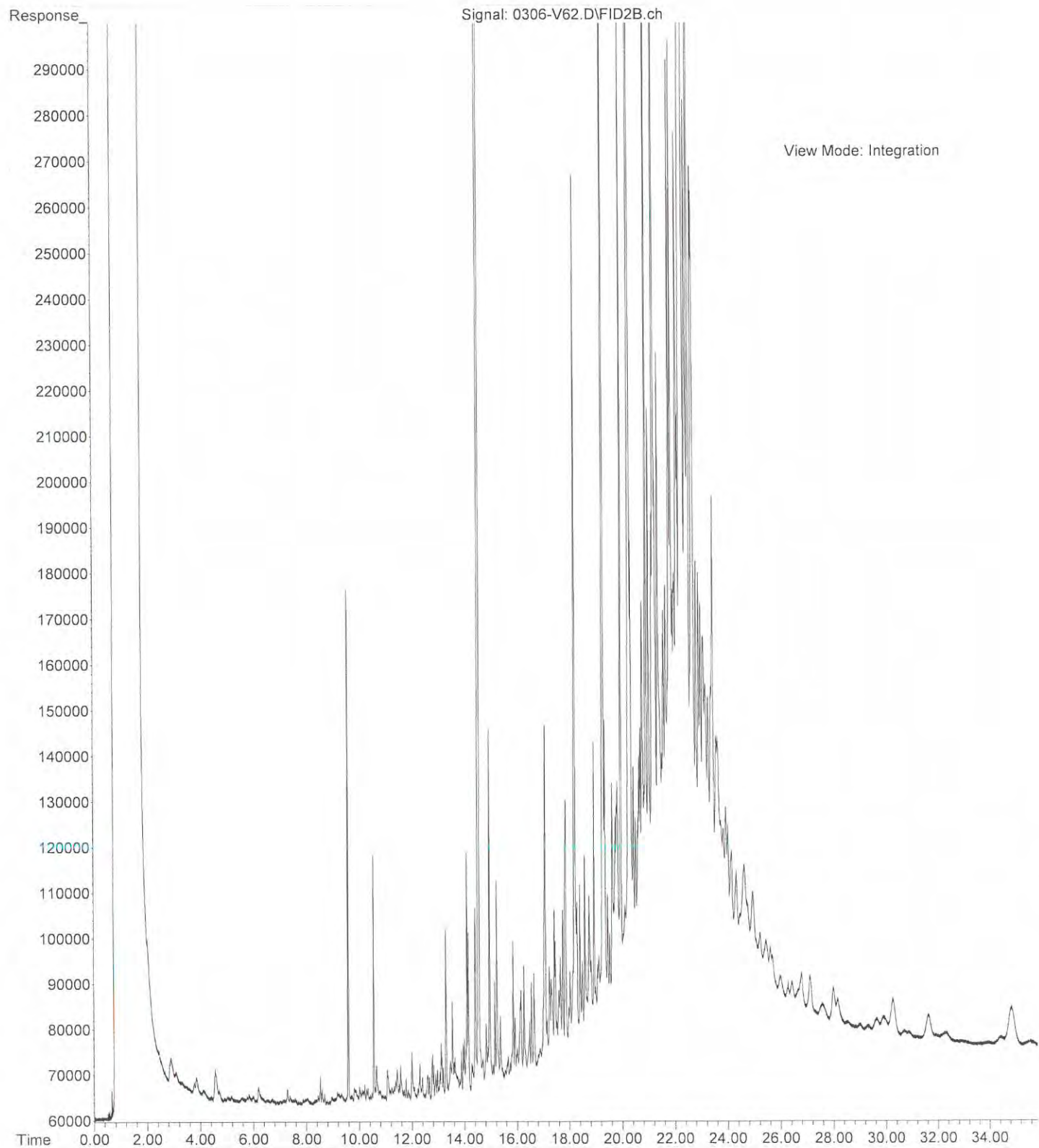
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Acquired : 7 Mar 2015 7:40 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-06
Misc Info :
Vial Number: 31



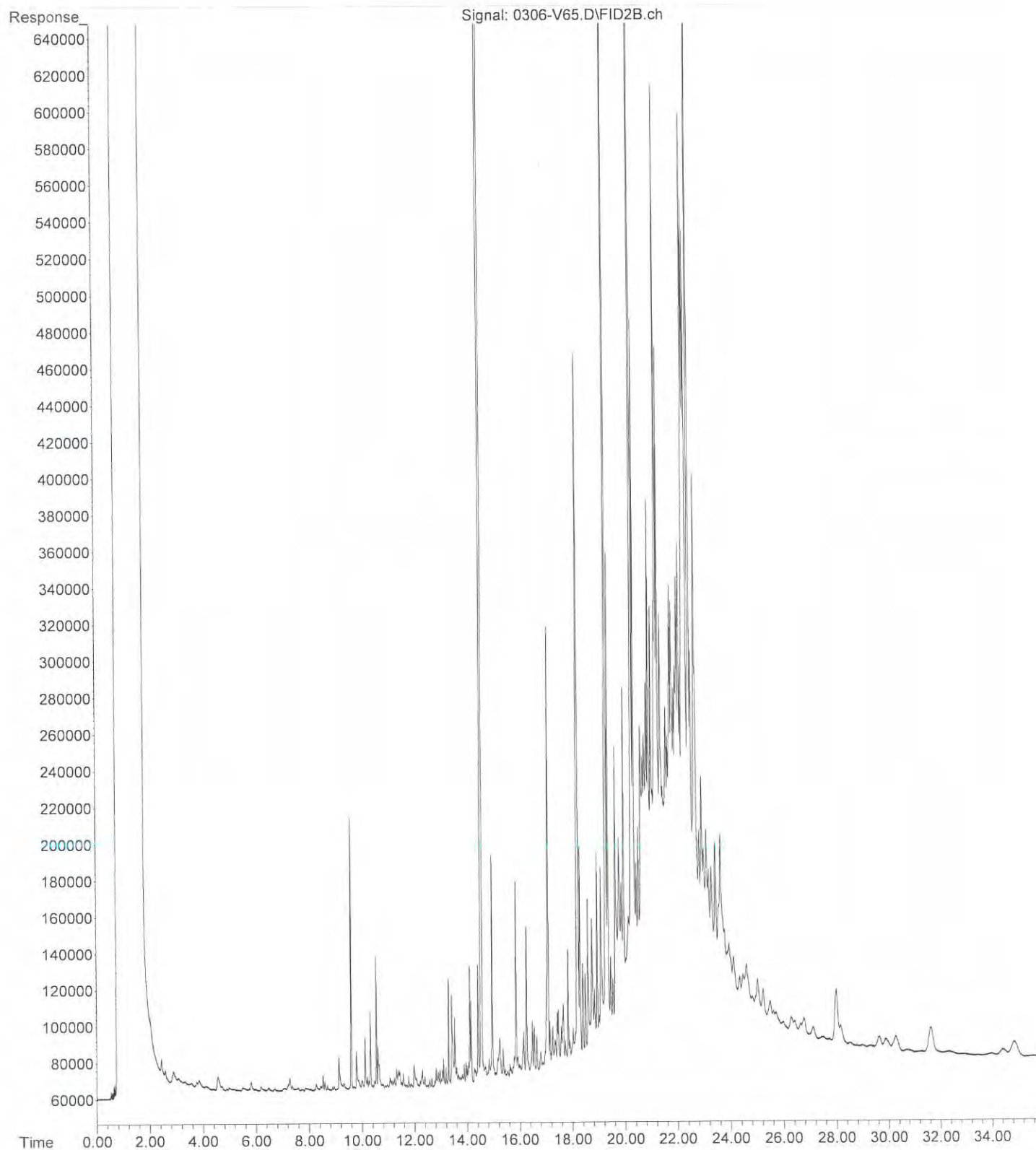
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Sample Name: 02-257-07
Misc Info :
Vial Number: 81



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Acquired : 6 Mar 2015 18:57 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-09
Misc Info :
Vial Number: 62



File : C:\msdchem\2\DATA\V150306.SEC\0306-V65.D
Operator :
Acquired : 6 Mar 2015 20:59 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-12
Misc Info :
Vial Number: 65





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March 11, 2015

Paul Craig
GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, WA 98052

Redmond, WA 98052

Re: Analytical Data for Project 4082-044-01
Laboratory Reference No. 1503-001

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on March 2, 2015.

Please note that this is a *revised* report and replaces the original report due to revisions of sample identifications.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: March 11, 2015
Samples Submitted: March 2, 2015
Laboratory Reference: 1503-001
Project: 4082-044-01

Case Narrative

Samples were collected on February 28 and March 1, 2015 and received by the laboratory on March 2, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 11, 2015
Samples Submitted: March 2, 2015
Laboratory Reference: 1503-001
Project: 4082-044-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
DWR2-MW2-2.5-3	03-001-01	Soil	2-28-15	3-2-15	
DWR2-MW2-16.5-17	03-001-05	Soil	2-28-15	3-2-15	
DWR2-MW1-5-5.5	03-001-06	Soil	2-28-15	3-2-15	
DWR2-MW1-18.5-20	03-001-09	Soil	2-28-15	3-2-15	
EL111-DP1-2-3	03-001-11	Soil	3-1-15	3-2-15	
EL111-DP1-5-6	03-001-12	Soil	3-1-15	3-2-15	
EL111-DP2-2-3	03-001-13	Soil	3-1-15	3-2-15	
EL111-DP2-4.5-5.5	03-001-14	Soil	3-1-15	3-2-15	
EL111-DP3-2-3	03-001-15	Soil	3-1-15	3-2-15	
EL111-DP3-4.5-5.5	03-001-16	Soil	3-1-15	3-2-15	
EL111-DP4-2-3	03-001-17	Soil	3-1-15	3-2-15	
EL111-DP4-4-5	03-001-18	Soil	3-1-15	3-2-15	
EL111-DP5-2-3	03-001-19	Soil	3-1-15	3-2-15	
EL111-DP5-5-6	03-001-20	Soil	3-1-15	3-2-15	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW2-2.5-3						
Laboratory ID: 03-001-01						
Gasoline Range Organics	ND	24	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	60	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				

Client ID: DWR2-MW2-16.5-17						
Laboratory ID: 03-001-05						
Gasoline Range Organics	ND	24	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	60	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	98	50-150				

Client ID: DWR2-MW1-5-5.5						
Laboratory ID: 03-001-06						
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	55	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	96	50-150				

Client ID: DWR2-MW1-18.5-20						
Laboratory ID: 03-001-09						
Gasoline Range Organics	ND	26	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	64	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	130	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	88	50-150				

Client ID: EL111-DP1-2-3						
Laboratory ID: 03-001-11						
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	55	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP1-5-6					
Laboratory ID:	03-001-12					
Gasoline Range Organics	ND	28	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	70	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	140	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	83	50-150				

Client ID:	EL111-DP2-2-3					
Laboratory ID:	03-001-13					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	92	50-150				

Client ID:	EL111-DP2-4.5-5.5					
Laboratory ID:	03-001-14					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	61	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	92	50-150				

Client ID:	EL111-DP3-2-3					
Laboratory ID:	03-001-15					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	55	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	92	50-150				

Client ID:	EL111-DP3-4.5-5.5					
Laboratory ID:	03-001-16					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	58	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	101	50-150				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP4-2-3					
Laboratory ID:	03-001-17					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	100	50-150				

Client ID:	EL111-DP4-4-5					
Laboratory ID:	03-001-18					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	60	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	96	50-150				

Client ID:	EL111-DP5-2-3					
Laboratory ID:	03-001-19					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	59	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	93	50-150				

Client ID:	EL111-DP5-5-6					
Laboratory ID:	03-001-20					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	55	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-5-15	3-5-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	90	50-150				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DWR2-MW2-2.5-3				
Laboratory ID:		03-001-01				
Dichlorodifluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Acetone	0.021	0.0035	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	

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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DWR2-MW2-2.5-3				
Laboratory ID:		03-001-01				
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>79-126</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW2-16.5-17						
Laboratory ID: 03-001-05						
Dichlorodifluoromethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Acetone	0.0056	0.0031	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DWR2-MW2-16.5-17				
Laboratory ID:		03-001-05				
1,1,2-Trichloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00061	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>79-126</i>				

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 Samples Submitted: March 2, 2015
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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DWR2-MW1-5-5.5				
Laboratory ID:		03-001-06				
Dichlorodifluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Acetone	0.034	0.0035	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Butanone	0.0047	0.0035	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		DWR2-MW1-5-5.5				
Laboratory ID:		03-001-06				
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>79-126</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW1-18.5-20						
Laboratory ID: 03-001-09						
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Acetone	0.12	0.0038	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Butanone	0.020	0.0038	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Benzene	0.00090	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	

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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW1-18.5-20						
Laboratory ID: 03-001-09						
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0015	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>79-126</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP1-2-3				
Laboratory ID:		03-001-11				
Dichlorodifluoromethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Acetone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP1-2-3					
Laboratory ID:	03-001-11					
1,1,2-Trichloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00062	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>79-126</i>				

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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP1-5-6				
Laboratory ID:		03-001-12				
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Acetone	0.068	0.0042	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
2-Butanone	0.010	0.0042	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP1-5-6					
Laboratory ID:	03-001-12					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0017	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>79-126</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP2-2-3				
Laboratory ID:		03-001-13				
Dichlorodifluoromethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Acetone	0.015	0.0031	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	

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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP2-2-3					
Laboratory ID:	03-001-13					
1,1,2-Trichloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>79-126</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP2-4.5-5.5					
Laboratory ID:	03-001-14					
Dichlorodifluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Acetone	0.018	0.0035	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP2-4.5-5.5						
Laboratory ID: 03-001-14						
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>79-126</i>				

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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP3-2-3				
Laboratory ID:		03-001-15				
Dichlorodifluoromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Acetone	0.0039	0.0029	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP3-2-3					
Laboratory ID:	03-001-15					
1,1,2-Trichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>79-126</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP3-4.5-5.5				
Laboratory ID:		03-001-16				
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Acetone	0.0099	0.0038	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP3-4.5-5.5				
Laboratory ID:		03-001-16				
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0015	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	3-3-15	3-3-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>79-126</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP4-2-3				
Laboratory ID:		03-001-17				
Dichlorodifluoromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Acetone	0.0052	0.0029	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP4-2-3					
Laboratory ID:	03-001-17					
1,1,2-Trichloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.00058	EPA 8260C	3-3-15	3-3-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	109	79-126				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP4-4-5				
Laboratory ID:		03-001-18				
Dichlorodifluoromethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Chloromethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Vinyl Chloride	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Bromomethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Chloroethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Trichlorofluoromethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Acetone	0.0083	0.0038	EPA 8260C	3-4-15	3-4-15	
Iodomethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Carbon Disulfide	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Methylene Chloride	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Methyl t-Butyl Ether	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Vinyl Acetate	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
2,2-Dichloropropane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
2-Butanone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Bromochloromethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Chloroform	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Carbon Tetrachloride	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloropropene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Benzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Trichloroethene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloropropane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Dibromomethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Bromodichloromethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Toluene	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP4-4-5					
Laboratory ID:	03-001-18					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Tetrachloroethene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,3-Dichloropropane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
2-Hexanone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Dibromochloromethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromoethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Chlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Ethylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
m,p-Xylene	ND	0.0015	EPA 8260C	3-4-15	3-4-15	
o-Xylene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Styrene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Bromoform	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Isopropylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Bromobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
n-Propylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
2-Chlorotoluene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
4-Chlorotoluene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,3,5-Trimethylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
tert-Butylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trimethylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
sec-Butylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
p-Isopropyltoluene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
n-Butylbenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Naphthalene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260C	3-4-15	3-4-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>79-126</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP5-2-3				
Laboratory ID:		03-001-19				
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Chloromethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Vinyl Chloride	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Bromomethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Chloroethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Acetone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Iodomethane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Carbon Disulfide	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Methylene Chloride	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Methyl t-Butyl Ether	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Vinyl Acetate	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
2-Butanone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Bromochloromethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Chloroform	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Benzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Trichloroethene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Dibromomethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Bromodichloromethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Toluene	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP5-2-3					
Laboratory ID:	03-001-19					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Tetrachloroethene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
2-Hexanone	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Dibromochloromethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Chlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Ethylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
m,p-Xylene	ND	0.0015	EPA 8260C	3-4-15	3-4-15	
o-Xylene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Styrene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Bromoform	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Isopropylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Bromobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
n-Propylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
2-Chlorotoluene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
4-Chlorotoluene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,3,5-Trimethylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
tert-Butylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trimethylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
sec-Butylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
p-Isopropyltoluene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
n-Butylbenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	3-4-15	3-4-15	
Naphthalene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	3-4-15	3-4-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>79-126</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP5-5-6				
Laboratory ID:		03-001-20				
Dichlorodifluoromethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Chloromethane	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Vinyl Chloride	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Bromomethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Chloroethane	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Trichlorofluoromethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Acetone	0.0039	0.0032	EPA 8260C	3-4-15	3-4-15	
Iodomethane	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Carbon Disulfide	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Methylene Chloride	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
(trans) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Methyl t-Butyl Ether	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Vinyl Acetate	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
2,2-Dichloropropane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
(cis) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
2-Butanone	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Bromochloromethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Chloroform	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1,1-Trichloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Carbon Tetrachloride	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloropropene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Benzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Trichloroethene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloropropane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Dibromomethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Bromodichloromethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
(cis) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Methyl Isobutyl Ketone	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Toluene	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
(trans) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP5-5-6					
Laboratory ID:	03-001-20					
1,1,2-Trichloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Tetrachloroethene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,3-Dichloropropane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
2-Hexanone	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Dibromochloromethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromoethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Chlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1,1,2-Tetrachloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Ethylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-4-15	3-4-15	
o-Xylene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Styrene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Bromoform	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Isopropylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Bromobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,1,2,2-Tetrachloroethane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichloropropane	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
n-Propylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
2-Chlorotoluene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
4-Chlorotoluene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,3,5-Trimethylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
tert-Butylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trimethylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
sec-Butylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,3-Dichlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
p-Isopropyltoluene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,4-Dichlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2-Dichlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
n-Butylbenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trichlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	3-4-15	3-4-15	
Naphthalene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichlorobenzene	ND	0.00064	EPA 8260C	3-4-15	3-4-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW2-2.5-3						
Laboratory ID: 03-001-01						
Naphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	92	32 - 114				
Pyrene-d10	85	33 - 121				
Terphenyl-d14	75	31 - 116				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW2-16.5-17						
Laboratory ID: 03-001-05						
Naphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[j,k]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-9-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	83	32 - 114				
Pyrene-d10	85	33 - 121				
Terphenyl-d14	76	31 - 116				

Date of Report: March 11, 2015
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 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW1-5-5.5						
Laboratory ID: 03-001-06						
Naphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Fluorene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Chrysene	0.011	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[b]fluoranthene	0.0090	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
Benzo[g,h,i]perylene	0.0088	0.0074	EPA 8270D/SIM	3-8-15	3-11-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	89	32 - 114				
Pyrene-d10	81	33 - 121				
Terphenyl-d14	105	31 - 116				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
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 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: DWR2-MW1-18.5-20						
Laboratory ID: 03-001-09						
Naphthalene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[j,k]fluoranthene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0085	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	88	32 - 114				
Pyrene-d10	77	33 - 121				
Terphenyl-d14	78	31 - 116				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP1-2-3						
Laboratory ID: 03-001-11						
Naphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	81	32 - 114				
Pyrene-d10	88	33 - 121				
Terphenyl-d14	76	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP1-5-6				
Laboratory ID:		03-001-12				
Naphthalene	0.015	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	0.013	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	0.027	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	0.12	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	0.028	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	0.040	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	0.024	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	0.0093	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0093	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		82	32 - 114			
Pyrene-d10		77	33 - 121			
Terphenyl-d14		82	31 - 116			

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 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP2-2-3						
Laboratory ID: 03-001-13						
Naphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	81	32 - 114				
Pyrene-d10	78	33 - 121				
Terphenyl-d14	93	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP2-4.5-5.5						
Laboratory ID: 03-001-14						
Naphthalene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	82	32 - 114				
Pyrene-d10	82	33 - 121				
Terphenyl-d14	79	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP3-2-3						
Laboratory ID: 03-001-15						
Naphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	75	32 - 114				
Pyrene-d10	82	33 - 121				
Terphenyl-d14	76	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP3-4.5-5.5						
Laboratory ID: 03-001-16						
Naphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[j,k]fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	83	32 - 114				
Pyrene-d10	85	33 - 121				
Terphenyl-d14	86	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP4-2-3						
Laboratory ID: 03-001-17						
Naphthalene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	86	32 - 114				
Pyrene-d10	81	33 - 121				
Terphenyl-d14	98	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP4-4-5				
Laboratory ID:		03-001-18				
Naphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		77	32 - 114			
Pyrene-d10		86	33 - 121			
Terphenyl-d14		82	31 - 116			

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP5-2-3						
Laboratory ID: 03-001-19						
Naphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270D/SIM	3-8-15	3-10-15	
Surrogate:						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	77	32 - 114				
Pyrene-d10	82	33 - 121				
Terphenyl-d14	80	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP5-5-6				
Laboratory ID:		03-001-20				
Naphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	3-8-15	3-10-15	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>2-Fluorobiphenyl</i>		83	32 - 114			
<i>Pyrene-d10</i>		80	33 - 121			
<i>Terphenyl-d14</i>		94	31 - 116			

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 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	03-001-01					
Client ID:	DWR2-MW2-2.5-3					
Arsenic	ND	12	6010C	3-9-15	3-9-15	
Barium	100	3.0	6010C	3-9-15	3-9-15	
Cadmium	ND	0.60	6010C	3-9-15	3-9-15	
Chromium	51	0.60	6010C	3-9-15	3-9-15	
Lead	6.1	6.0	6010C	3-9-15	3-9-15	
Mercury	ND	0.30	7471B	3-9-15	3-9-15	
Selenium	ND	12	6010C	3-9-15	3-9-15	
Silver	ND	1.2	6010C	3-9-15	3-9-15	

Lab ID:	03-001-05				
Client ID:	DWR2-MW2-16.5-17				
Arsenic	ND	12	6010C	3-9-15	3-9-15
Barium	62	3.0	6010C	3-9-15	3-9-15
Cadmium	ND	0.60	6010C	3-9-15	3-9-15
Chromium	33	0.60	6010C	3-9-15	3-9-15
Lead	ND	6.0	6010C	3-9-15	3-9-15
Mercury	ND	0.30	7471B	3-9-15	3-9-15
Selenium	ND	12	6010C	3-9-15	3-9-15
Silver	ND	1.2	6010C	3-9-15	3-9-15

Date of Report: March 11, 2015
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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-06					
Client ID:	DWR2-MW1-5-5.5					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	54	2.8	6010C	3-9-15	3-9-15	
Cadmium	ND	0.55	6010C	3-9-15	3-9-15	
Chromium	38	0.55	6010C	3-9-15	3-9-15	
Lead	ND	5.5	6010C	3-9-15	3-9-15	
Mercury	ND	0.28	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

Lab ID: 03-001-09
 Client ID: DWR2-MW1-18.5-20

Arsenic	ND	13	6010C	3-9-15	3-9-15	
Barium	62	3.2	6010C	3-9-15	3-9-15	
Cadmium	ND	0.64	6010C	3-9-15	3-9-15	
Chromium	44	0.64	6010C	3-9-15	3-9-15	
Lead	24	6.4	6010C	3-9-15	3-9-15	
Mercury	ND	0.32	7471B	3-9-15	3-9-15	
Selenium	ND	13	6010C	3-9-15	3-9-15	
Silver	ND	1.3	6010C	3-9-15	3-9-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-11					
Client ID:	EL111-DP1-2-3					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	42	2.7	6010C	3-9-15	3-9-15	
Cadmium	ND	0.55	6010C	3-9-15	3-9-15	
Chromium	26	0.55	6010C	3-9-15	3-9-15	
Lead	ND	5.5	6010C	3-9-15	3-9-15	
Mercury	ND	0.27	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

Lab ID:	03-001-12					
Client ID:	EL111-DP1-5-6					
Arsenic	ND	14	6010C	3-9-15	3-9-15	
Barium	160	3.5	6010C	3-9-15	3-9-15	
Cadmium	ND	0.70	6010C	3-9-15	3-9-15	
Chromium	70	0.70	6010C	3-9-15	3-9-15	
Lead	18	7.0	6010C	3-9-15	3-9-15	
Mercury	ND	0.35	7471B	3-9-15	3-9-15	
Selenium	ND	14	6010C	3-9-15	3-9-15	
Silver	ND	1.4	6010C	3-9-15	3-9-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-13					
Client ID:	EL111-DP2-2-3					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	47	2.7	6010C	3-9-15	3-9-15	
Cadmium	ND	0.54	6010C	3-9-15	3-9-15	
Chromium	35	0.54	6010C	3-9-15	3-9-15	
Lead	ND	5.4	6010C	3-9-15	3-9-15	
Mercury	ND	0.27	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

Lab ID:	03-001-14					
Client ID:	EL111-DP2-4.5-5.5					
Arsenic	ND	12	6010C	3-9-15	3-9-15	
Barium	85	3.0	6010C	3-9-15	3-9-15	
Cadmium	ND	0.61	6010C	3-9-15	3-9-15	
Chromium	45	0.61	6010C	3-9-15	3-9-15	
Lead	ND	6.1	6010C	3-9-15	3-9-15	
Mercury	ND	0.30	7471B	3-9-15	3-9-15	
Selenium	ND	12	6010C	3-9-15	3-9-15	
Silver	ND	1.2	6010C	3-9-15	3-9-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-15					
Client ID:	EL111-DP3-2-3					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	49	2.8	6010C	3-9-15	3-9-15	
Cadmium	ND	0.55	6010C	3-9-15	3-9-15	
Chromium	33	0.55	6010C	3-9-15	3-9-15	
Lead	ND	5.5	6010C	3-9-15	3-9-15	
Mercury	ND	0.28	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

Lab ID:	03-001-16					
Client ID:	EL111-DP3-4.5-5.5					
Arsenic	ND	12	6010C	3-9-15	3-9-15	
Barium	44	2.9	6010C	3-9-15	3-9-15	
Cadmium	ND	0.58	6010C	3-9-15	3-9-15	
Chromium	24	0.58	6010C	3-9-15	3-9-15	
Lead	ND	5.8	6010C	3-9-15	3-9-15	
Mercury	ND	0.29	7471B	3-9-15	3-9-15	
Selenium	ND	12	6010C	3-9-15	3-9-15	
Silver	ND	1.2	6010C	3-9-15	3-9-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-17					
Client ID:	EL111-DP4-2-3					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	52	2.7	6010C	3-9-15	3-9-15	
Cadmium	ND	0.54	6010C	3-9-15	3-9-15	
Chromium	35	0.54	6010C	3-9-15	3-9-15	
Lead	ND	5.4	6010C	3-9-15	3-9-15	
Mercury	ND	0.27	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

Lab ID:	03-001-18					
Client ID:	EL111-DP4-4-5					
Arsenic	ND	12	6010C	3-9-15	3-9-15	
Barium	64	3.0	6010C	3-9-15	3-9-15	
Cadmium	ND	0.60	6010C	3-9-15	3-9-15	
Chromium	36	0.60	6010C	3-9-15	3-9-15	
Lead	ND	6.0	6010C	3-9-15	3-9-15	
Mercury	ND	0.30	7471B	3-9-15	3-9-15	
Selenium	ND	12	6010C	3-9-15	3-9-15	
Silver	ND	1.2	6010C	3-9-15	3-9-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-001-19					
Client ID:	EL111-DP5-2-3					
Arsenic	ND	12	6010C	3-9-15	3-9-15	
Barium	110	2.9	6010C	3-9-15	3-9-15	
Cadmium	ND	0.59	6010C	3-9-15	3-9-15	
Chromium	61	0.59	6010C	3-9-15	3-9-15	
Lead	6.2	5.9	6010C	3-9-15	3-9-15	
Mercury	ND	0.29	7471B	3-9-15	3-9-15	
Selenium	ND	12	6010C	3-9-15	3-9-15	
Silver	ND	1.2	6010C	3-9-15	3-9-15	

Lab ID:	03-001-20					
Client ID:	EL111-DP5-5-6					
Arsenic	ND	11	6010C	3-9-15	3-9-15	
Barium	65	2.7	6010C	3-9-15	3-9-15	
Cadmium	ND	0.55	6010C	3-9-15	3-9-15	
Chromium	32	0.55	6010C	3-9-15	3-9-15	
Lead	ND	5.5	6010C	3-9-15	3-9-15	
Mercury	ND	0.27	7471B	3-9-15	3-9-15	
Selenium	ND	11	6010C	3-9-15	3-9-15	
Silver	ND	1.1	6010C	3-9-15	3-9-15	

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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0305S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	3-5-15	3-5-15	
Diesel Range Organics	ND	50	NWTPH-HCID	3-5-15	3-5-15	
Lube Oil Range Organics	ND	100	NWTPH-HCID	3-5-15	3-5-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0303S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Chloromethane	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Bromomethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Chloroethane	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Acetone	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Iodomethane	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Methylene Chloride	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
2-Butanone	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Bromochloromethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Chloroform	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Benzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Trichloroethene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Dibromomethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Toluene	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0303S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
2-Hexanone	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Chlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Ethylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
m,p-Xylene	ND	0.0020	EPA 8260C	3-3-15	3-3-15	
o-Xylene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Styrene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Bromoform	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Bromobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-3-15	3-3-15	
Naphthalene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-3-15	3-3-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	104	79-126				

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METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0304S1						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Chloromethane	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Bromomethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Chloroethane	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Acetone	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Iodomethane	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Methylene Chloride	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
2-Butanone	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Bromochloromethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Chloroform	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Benzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Trichloroethene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Dibromomethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Toluene	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	

Date of Report: March 11, 2015
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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0304S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
2-Hexanone	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Chlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Ethylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
m,p-Xylene	ND	0.0020	EPA 8260C	3-4-15	3-4-15	
o-Xylene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Styrene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Bromoform	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Bromobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-4-15	3-4-15	
Naphthalene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-4-15	3-4-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	76-131				
Toluene-d8	104	82-129				
4-Bromofluorobenzene	107	79-126				

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VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB0303S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0439	0.0465	0.0500	0.0500	88	93	66-129	6		15	
Benzene	0.0467	0.0469	0.0500	0.0500	93	94	71-123	0		15	
Trichloroethene	0.0495	0.0491	0.0500	0.0500	99	98	75-115	1		15	
Toluene	0.0485	0.0480	0.0500	0.0500	97	96	75-120	1		15	
Chlorobenzene	0.0453	0.0448	0.0500	0.0500	91	90	75-121	1		15	
Surrogate:											
Dibromofluoromethane					101	100	76-131				
Toluene-d8					100	99	82-129				
4-Bromofluorobenzene					99	99	79-126				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0304S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0436	0.0444	0.0500	0.0500	87	89	66-129	2	15	
Benzene	0.0443	0.0453	0.0500	0.0500	89	91	71-123	2	15	
Trichloroethene	0.0501	0.0487	0.0500	0.0500	100	97	75-115	3	15	
Toluene	0.0477	0.0472	0.0500	0.0500	95	94	75-120	1	15	
Chlorobenzene	0.0450	0.0448	0.0500	0.0500	90	90	75-121	0	15	
Surrogate:										
Dibromofluoromethane					99	103	76-131			
Toluene-d8					98	100	82-129			
4-Bromofluorobenzene					98	101	79-126			

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0308S2						
Naphthalene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	3-8-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>87</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>96</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>31 - 116</i>				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	03-001-13									
	MS	MSD	MS	MSD		MS	MSD			
Naphthalene	0.0782	0.0793	0.0833	0.0833	ND	94	95	44 - 107	1	29
Acenaphthylene	0.0740	0.0738	0.0833	0.0833	ND	89	89	44 - 121	0	27
Acenaphthene	0.0729	0.0734	0.0833	0.0833	ND	88	88	47 - 109	1	26
Fluorene	0.0794	0.0823	0.0833	0.0833	ND	95	99	49 - 115	4	28
Phenanthrene	0.0787	0.0771	0.0833	0.0833	ND	94	93	45 - 114	2	26
Anthracene	0.0757	0.0788	0.0833	0.0833	ND	91	95	43 - 140	4	27
Fluoranthene	0.0706	0.0743	0.0833	0.0833	ND	85	89	44 - 126	5	27
Pyrene	0.0652	0.0691	0.0833	0.0833	ND	78	83	43 - 125	6	27
Benzo[a]anthracene	0.0756	0.0805	0.0833	0.0833	ND	91	97	42 - 134	6	27
Chrysene	0.0679	0.0713	0.0833	0.0833	ND	82	86	45 - 114	5	27
Benzo[b]fluoranthene	0.0853	0.0852	0.0833	0.0833	ND	102	102	38 - 131	0	33
Benzo(j,k)fluoranthene	0.0736	0.0820	0.0833	0.0833	ND	88	98	44 - 114	11	34
Benzo[a]pyrene	0.0751	0.0778	0.0833	0.0833	ND	90	93	40 - 136	4	29
Indeno(1,2,3-c,d)pyrene	0.0737	0.0809	0.0833	0.0833	ND	88	97	45 - 126	9	30
Dibenz[a,h]anthracene	0.0773	0.0832	0.0833	0.0833	ND	93	100	46 - 121	7	28
Benzo[g,h,i]perylene	0.0791	0.0826	0.0833	0.0833	ND	95	99	43 - 120	4	31
Surrogate:										
2-Fluorobiphenyl						83	87	32 - 114		
Pyrene-d10						78	82	33 - 121		
Terphenyl-d14						89	100	31 - 116		

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Samples Submitted: March 2, 2015
Laboratory Reference: 1503-001
Project: 4082-044-01

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-9-15

Date Analyzed: 3-9-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0309SM2&MB0309S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 3-9-15

Date Analyzed: 3-9-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-001-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	42.9	46.7	9	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	32.1	31.7	1	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 3-9-15

Date Analyzed: 3-9-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-001-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	98.5	98	99.6	100	1	
Barium	100	152	109	154	111	1	
Cadmium	50.0	47.9	96	48.2	96	1	
Chromium	100	119	87	121	89	2	
Lead	250	247	99	249	99	1	
Mercury	0.500	0.527	105	0.533	107	1	
Selenium	100	100	100	99.4	99	1	
Silver	25.0	22.8	91	22.7	91	0	

Date of Report: March 11, 2015
Samples Submitted: March 2, 2015
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Project: 4082-044-01

% MOISTURE

Date Analyzed: 3-3-15

Client ID	Lab ID	% Moisture
DWR2-MW2-2.5-3	03-001-01	17
DWR2-MW2-16.5-17	03-001-05	16
DWR2-MW1-5-5.5	03-001-06	9
DWR2-MW1-18.5-20	03-001-09	21
EL111-DP1-2-3	03-001-11	8
EL111-DP1-5-6	03-001-12	28
EL111-DP2-2-3	03-001-13	8
EL111-DP2-4.5-5.5	03-001-14	17
EL111-DP3-2-3	03-001-15	9
EL111-DP3-4.5-5.5	03-001-16	14
EL111-DP4-2-3	03-001-17	8
EL111-DP4-4-5	03-001-18	17
EL111-DP5-2-3	03-001-19	15
EL111-DP5-5-6	03-001-20	9



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



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Chain of Custody

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[illegible]



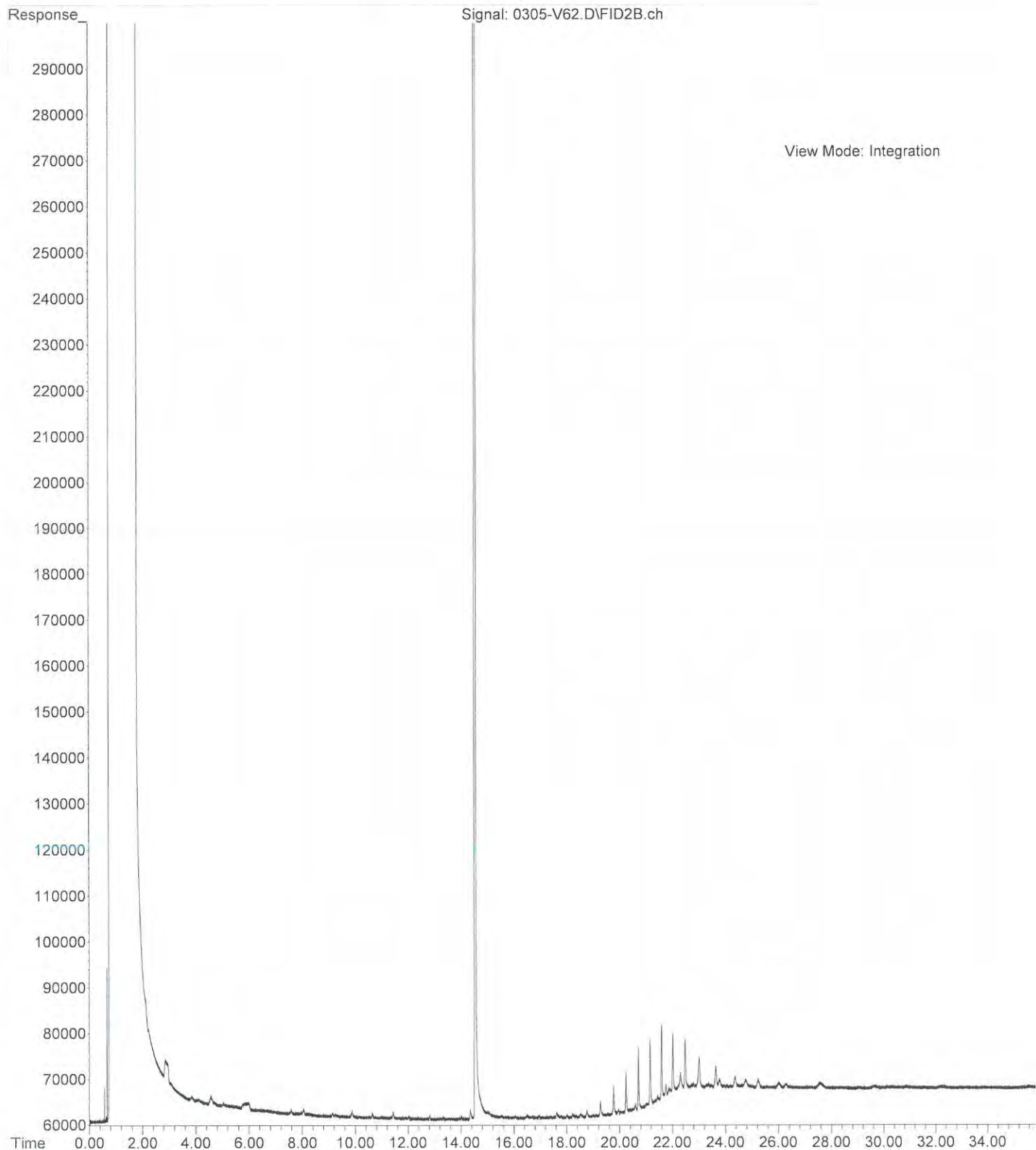
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Chain of Custody

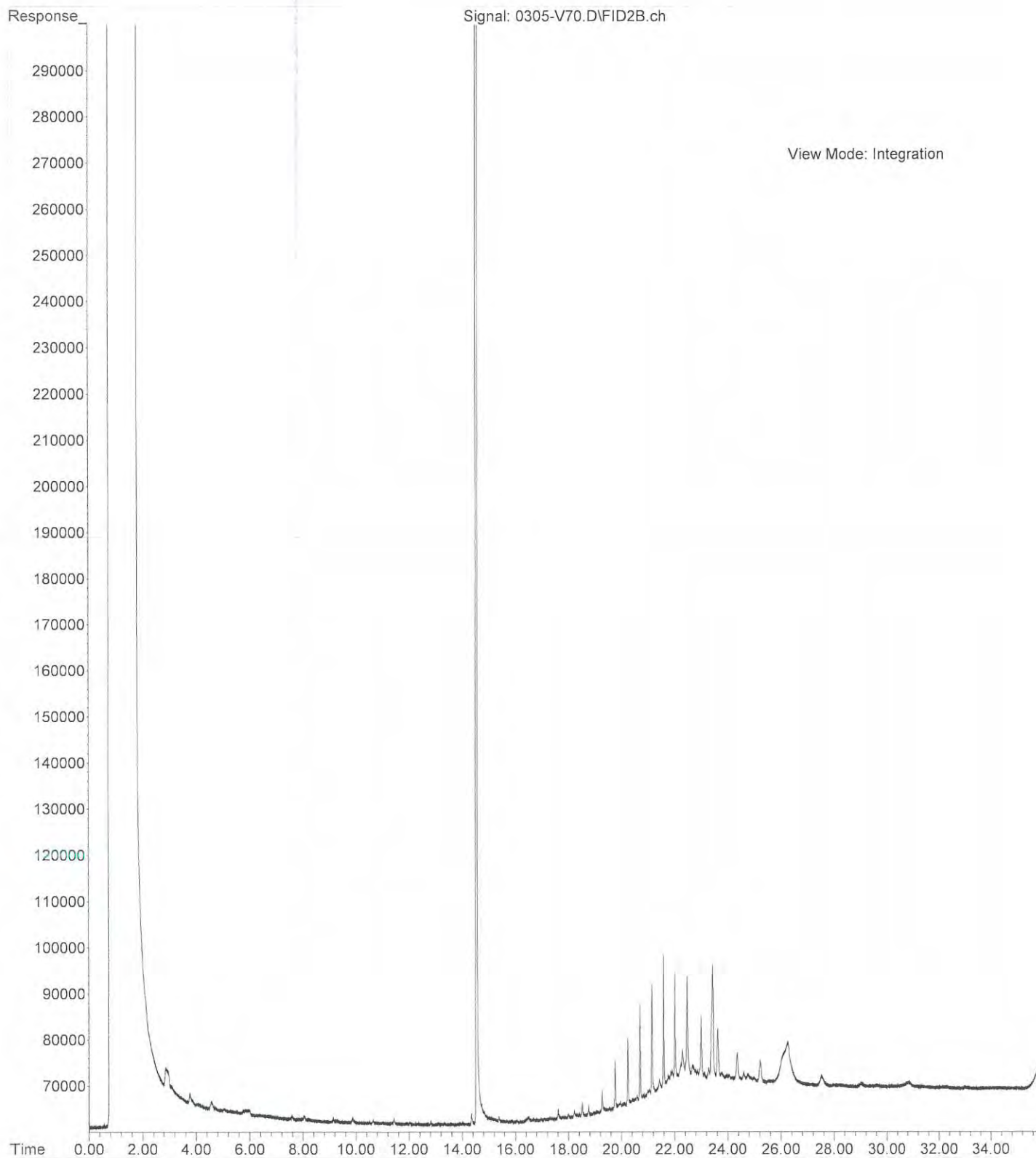
Page 2 of 2

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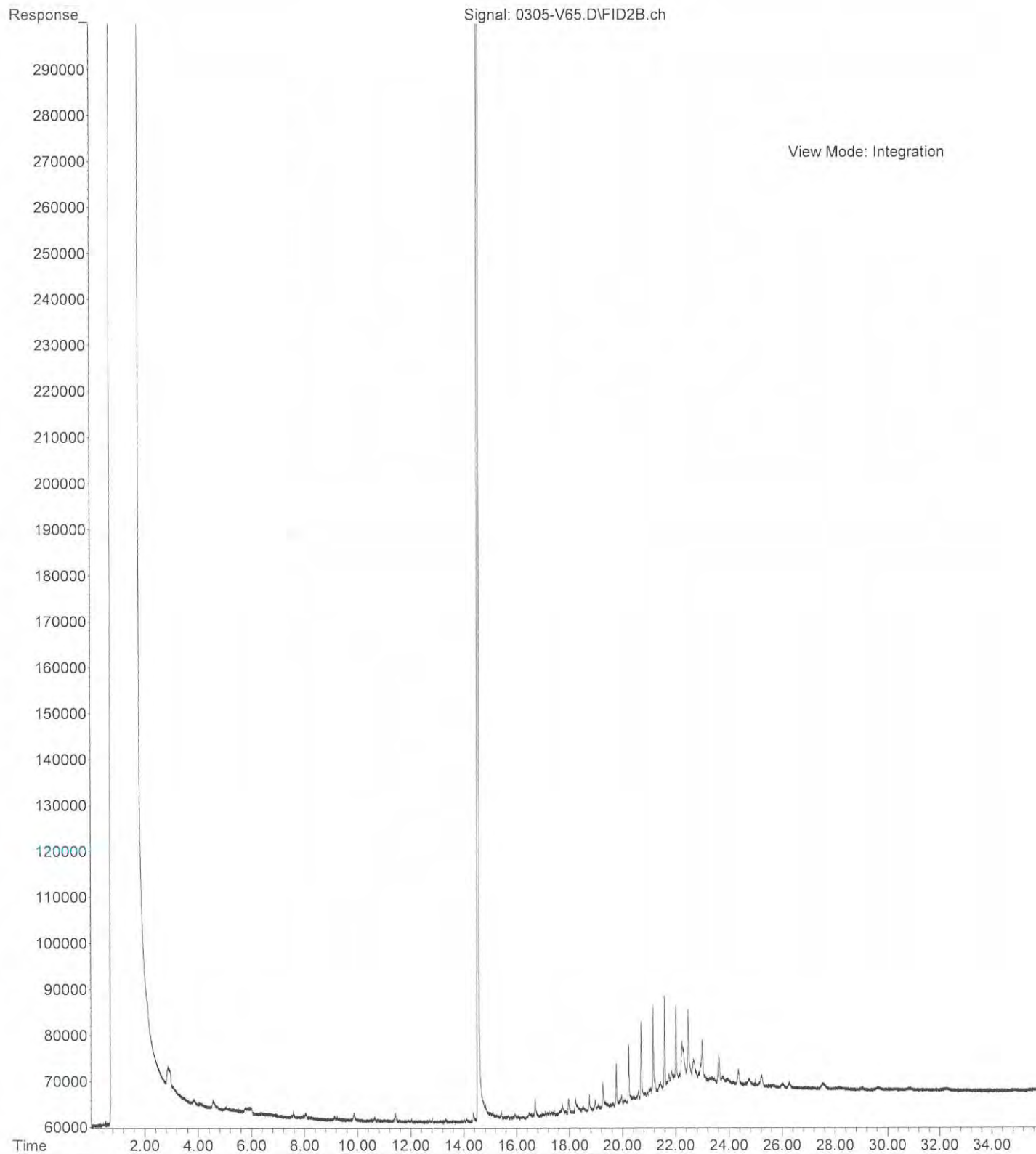
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Instrument : Vigo
Sample Name: 03-001-05
Misc Info :
Vial Number: 62



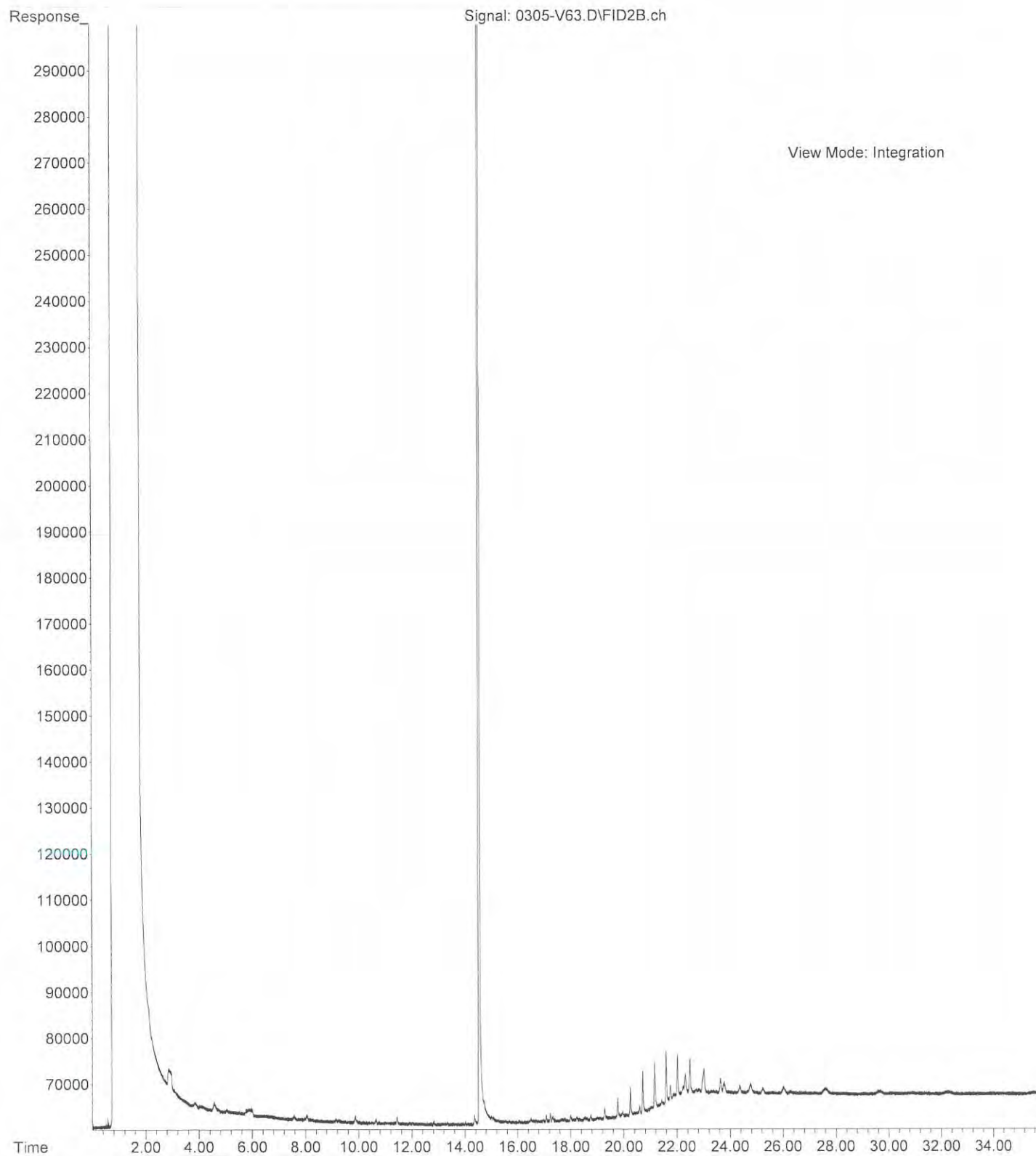
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Instrument : Vigo
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Vial Number: 70



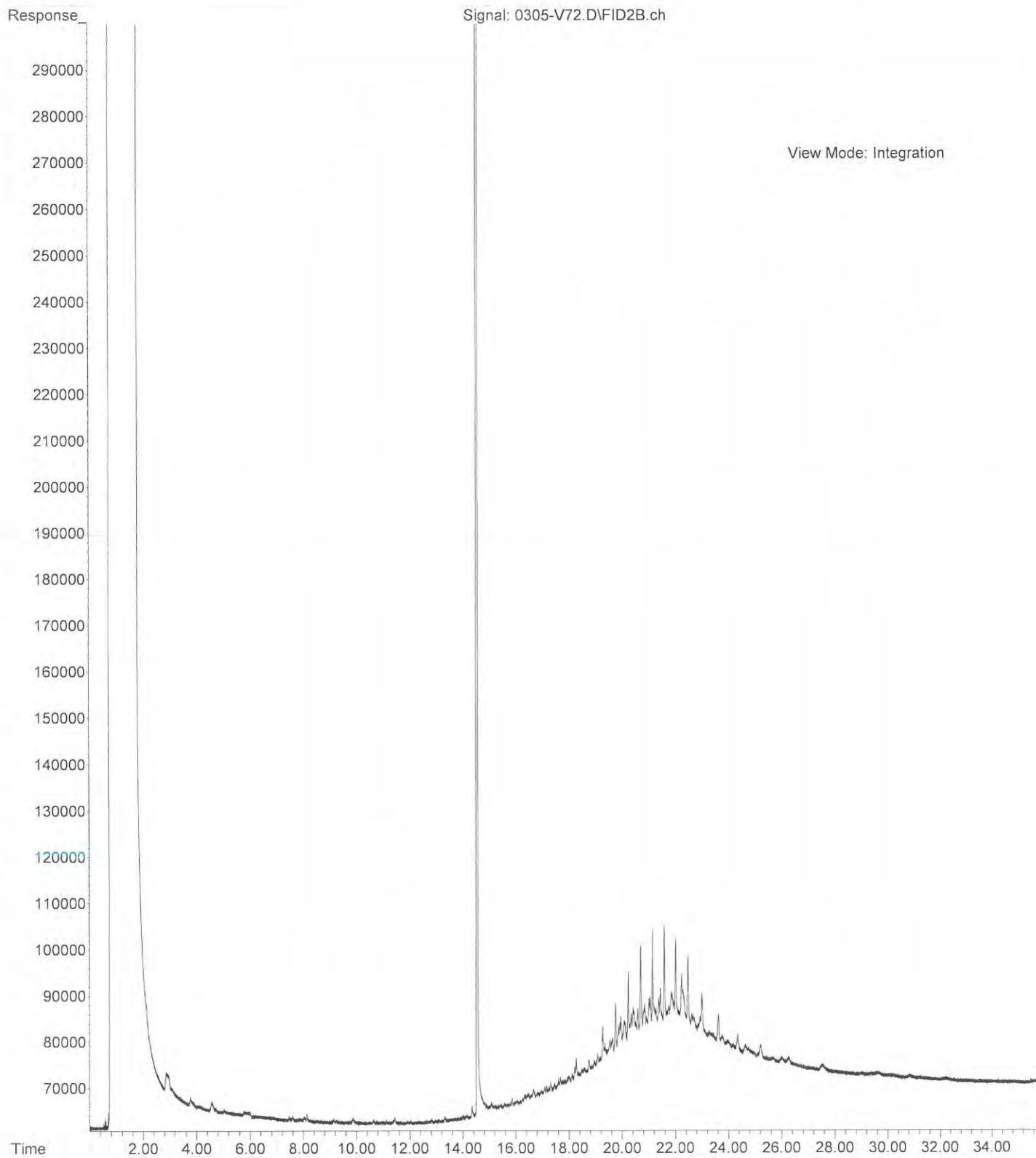
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Instrument : Vigo
Sample Name: 03-001-09
Misc Info :
Vial Number: 65



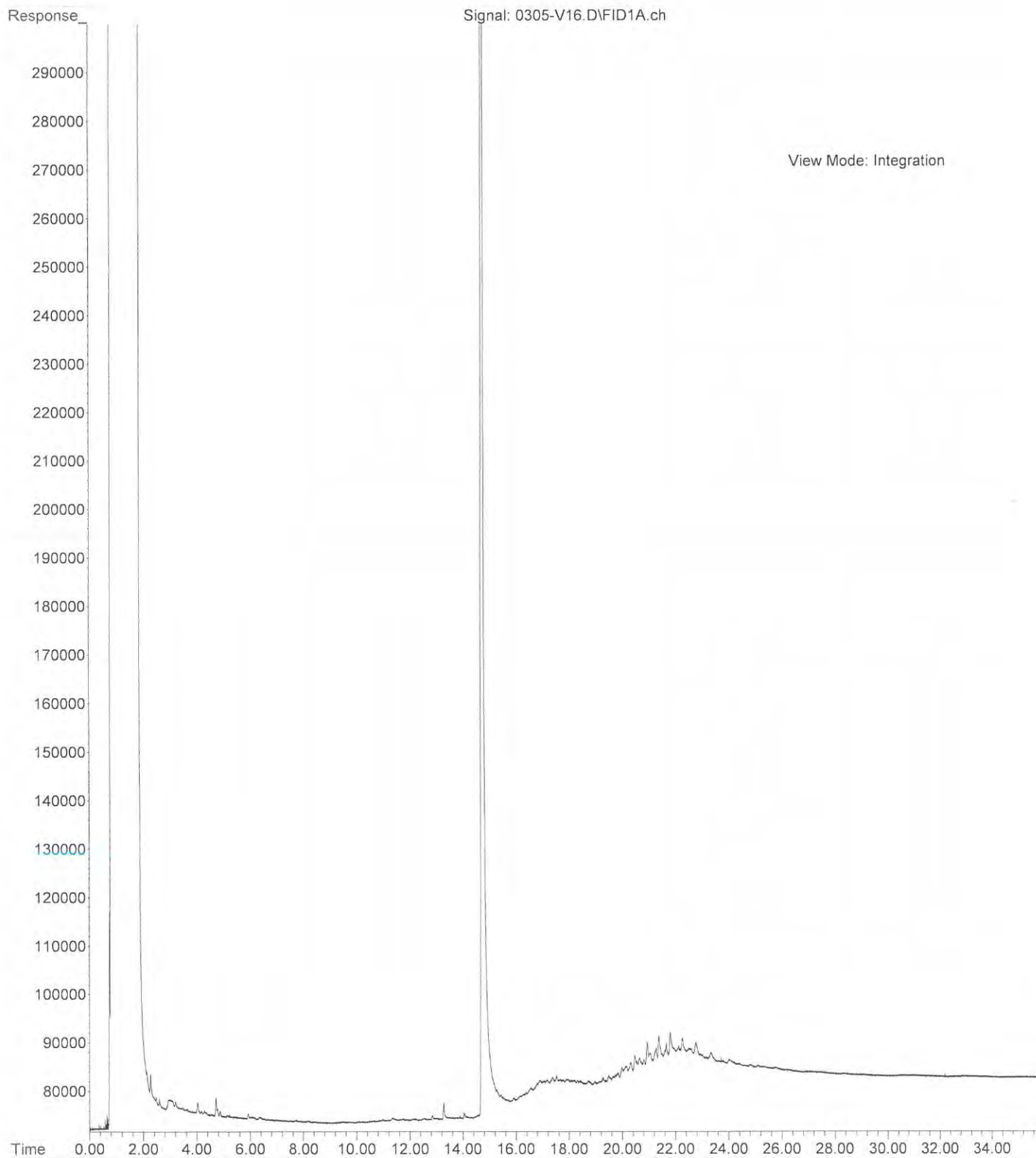
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Instrument : Vigo
Sample Name: 03-001-11
Misc Info :
Vial Number: 63



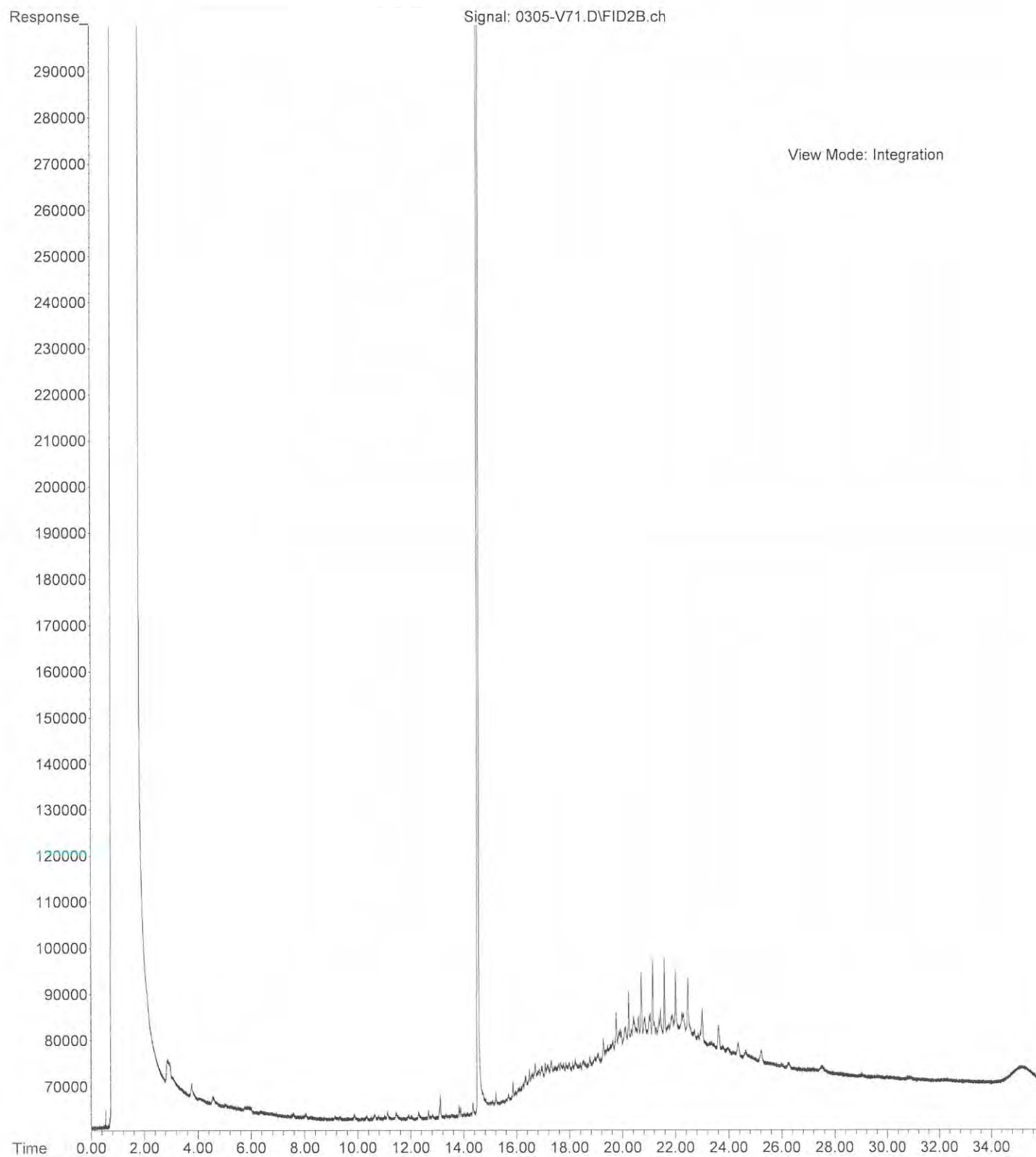
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Instrument : Vigo
Sample Name: 03-001-12
Misc Info :
Vial Number: 72



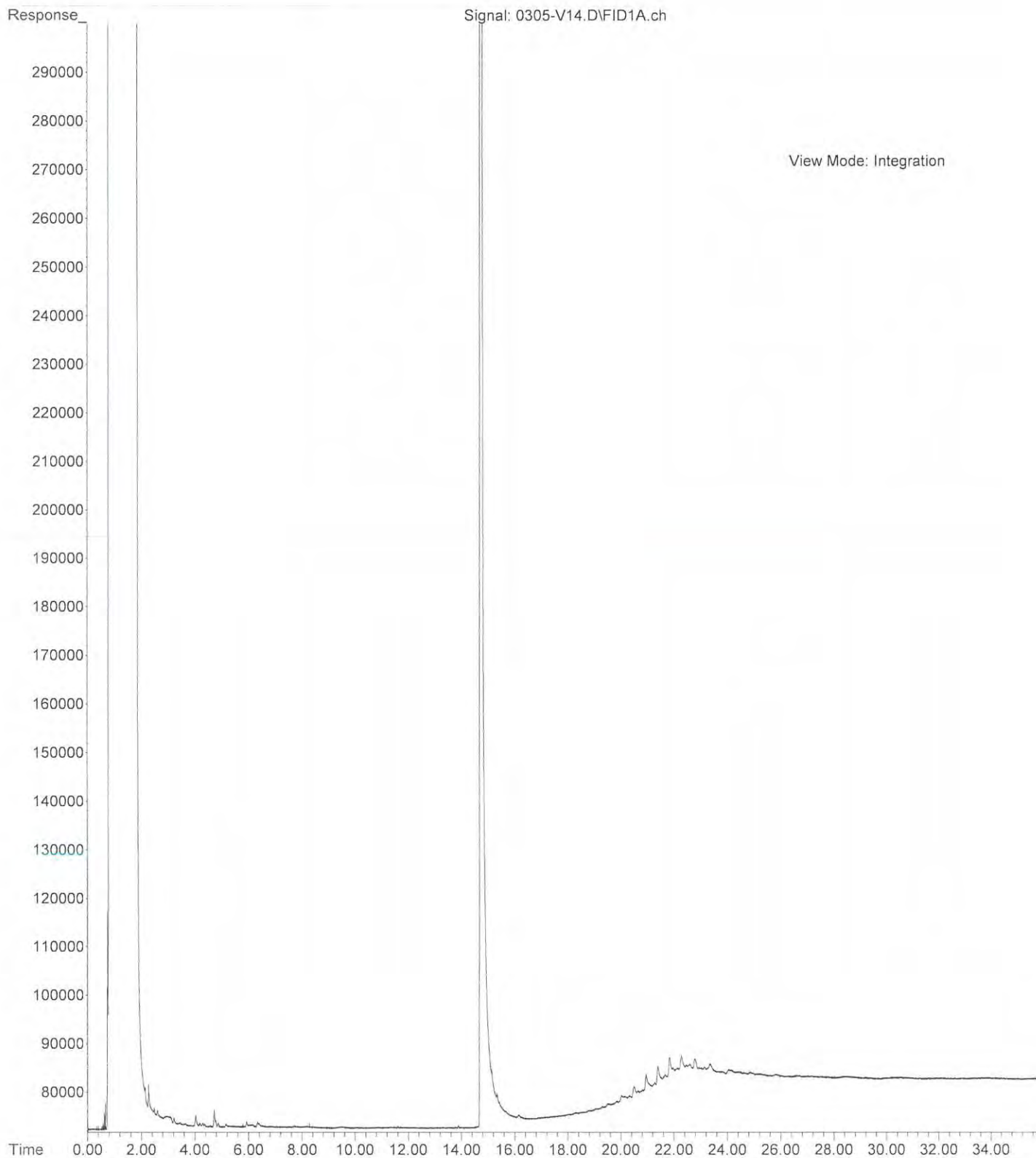
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Instrument : Vigo
Sample Name: 03-001-13
Misc Info :
Vial Number: 16



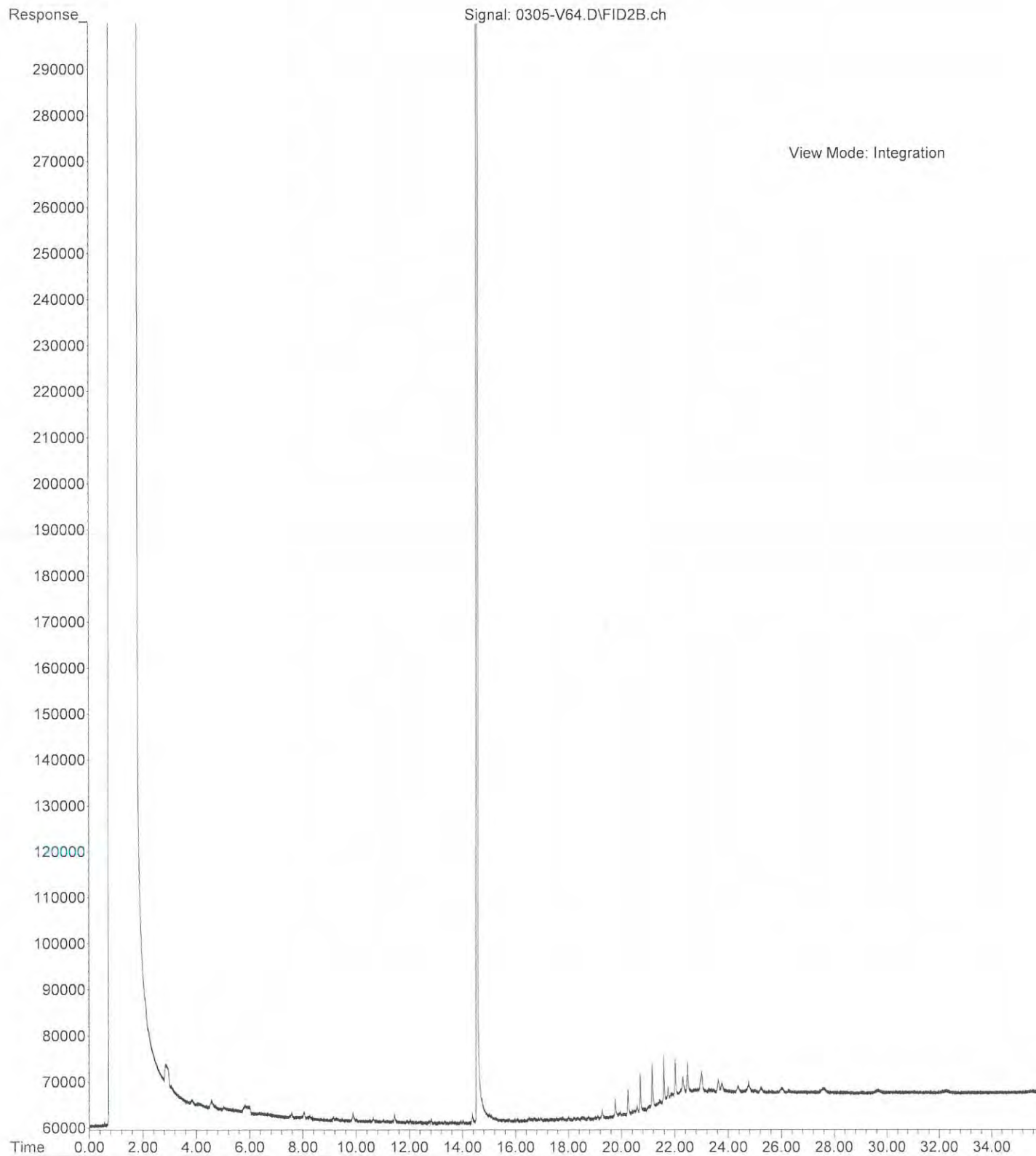
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Instrument : Vigo
Sample Name: 03-001-14
Misc Info :
Vial Number: 71



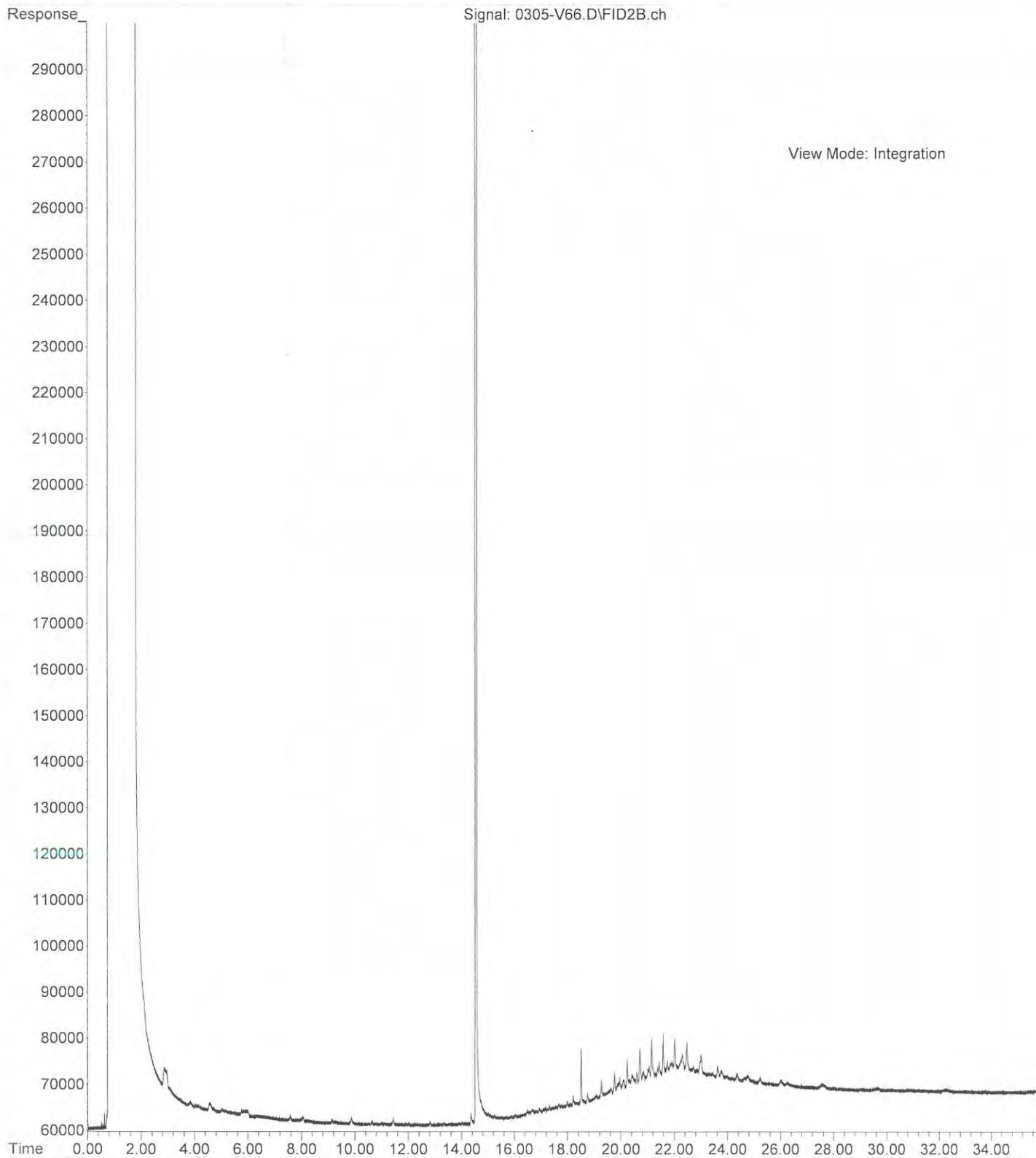
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Operator :
Acquired : 5 Mar 2015 19:06 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-15
Misc Info :
Vial Number: 14



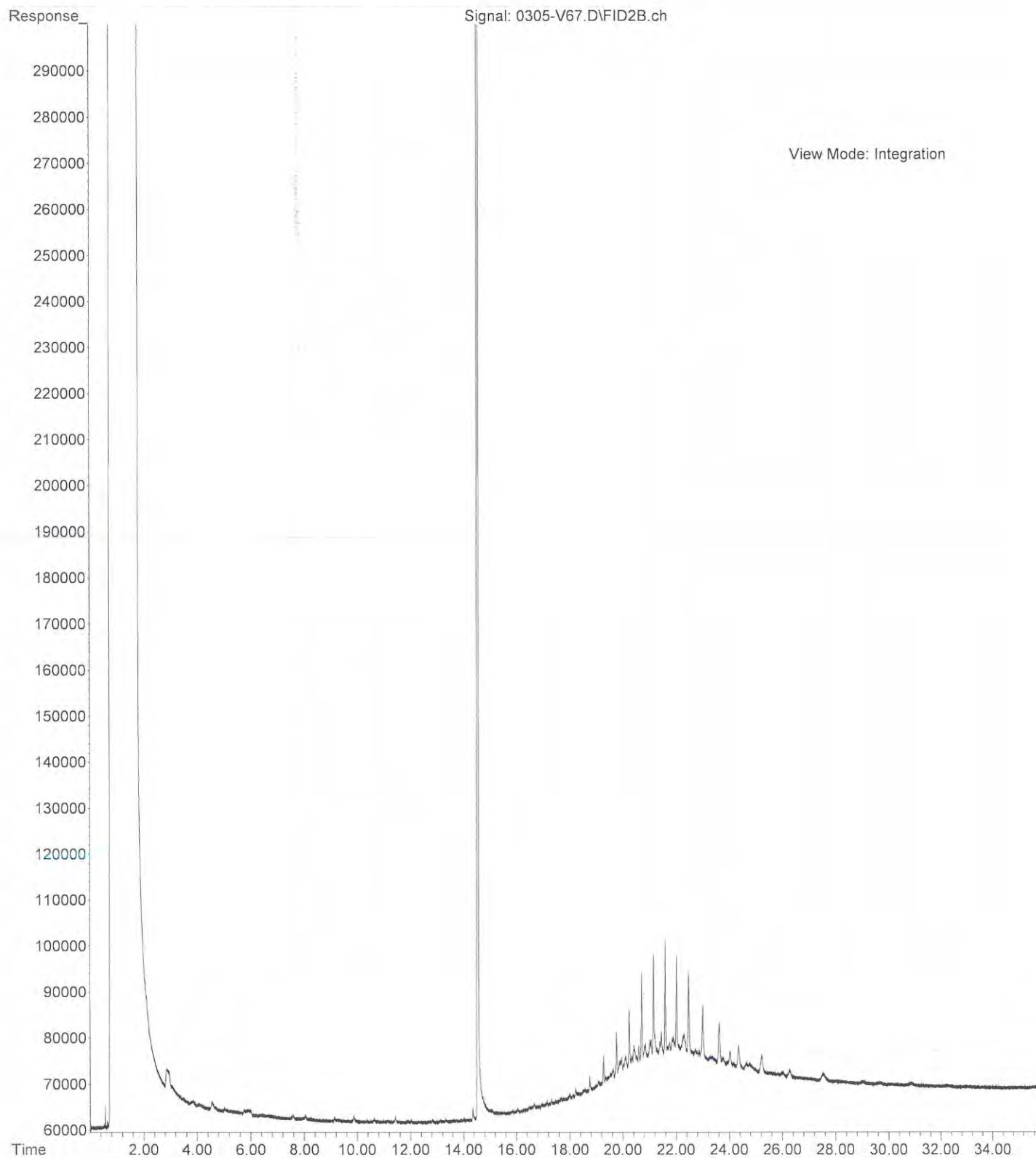
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Operator :
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Instrument : Vigo
Sample Name: 03-001-16
Misc Info :
Vial Number: 64



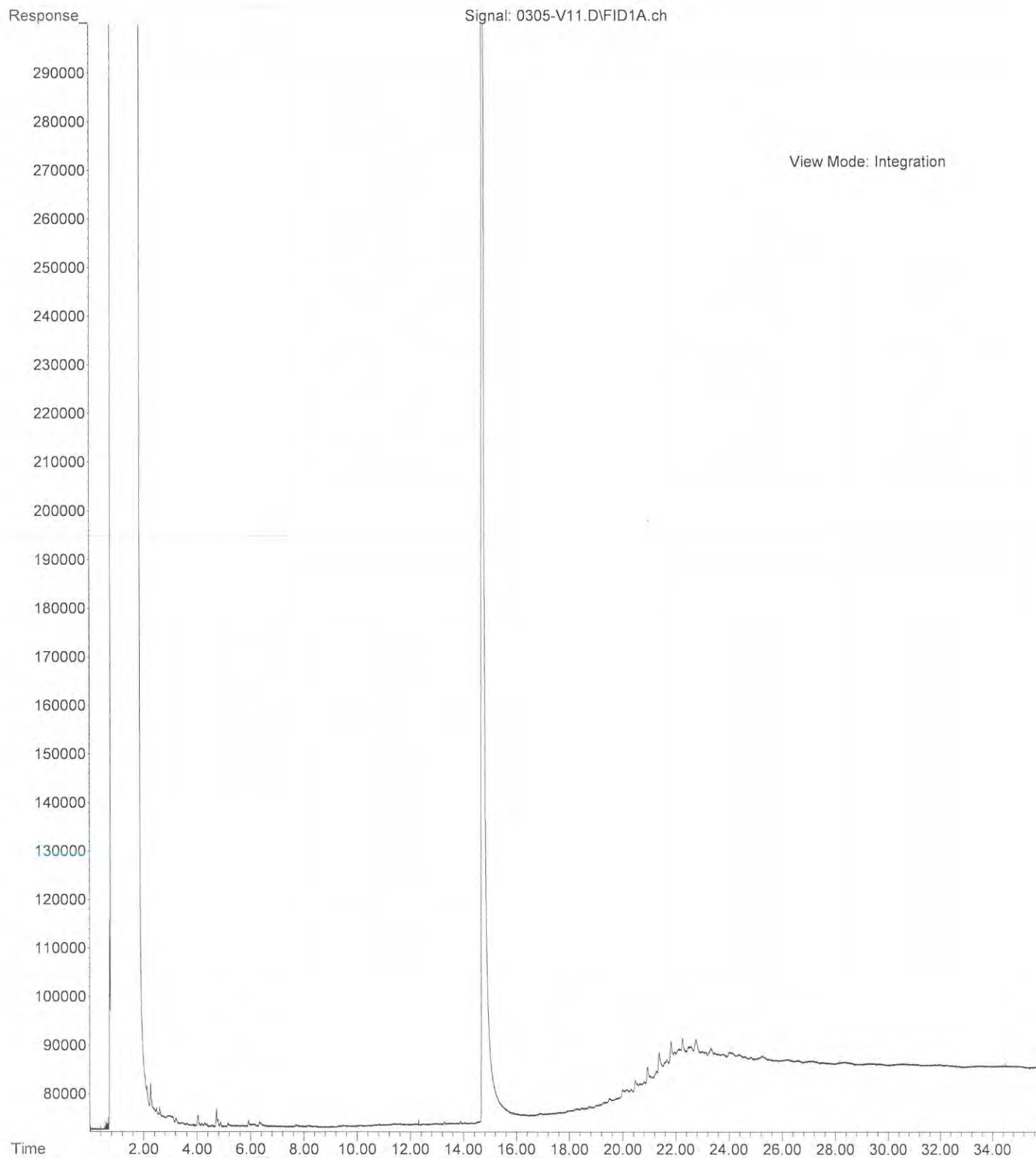
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Instrument : Vigo
Sample Name: 03-001-17
Misc Info :
Vial Number: 66



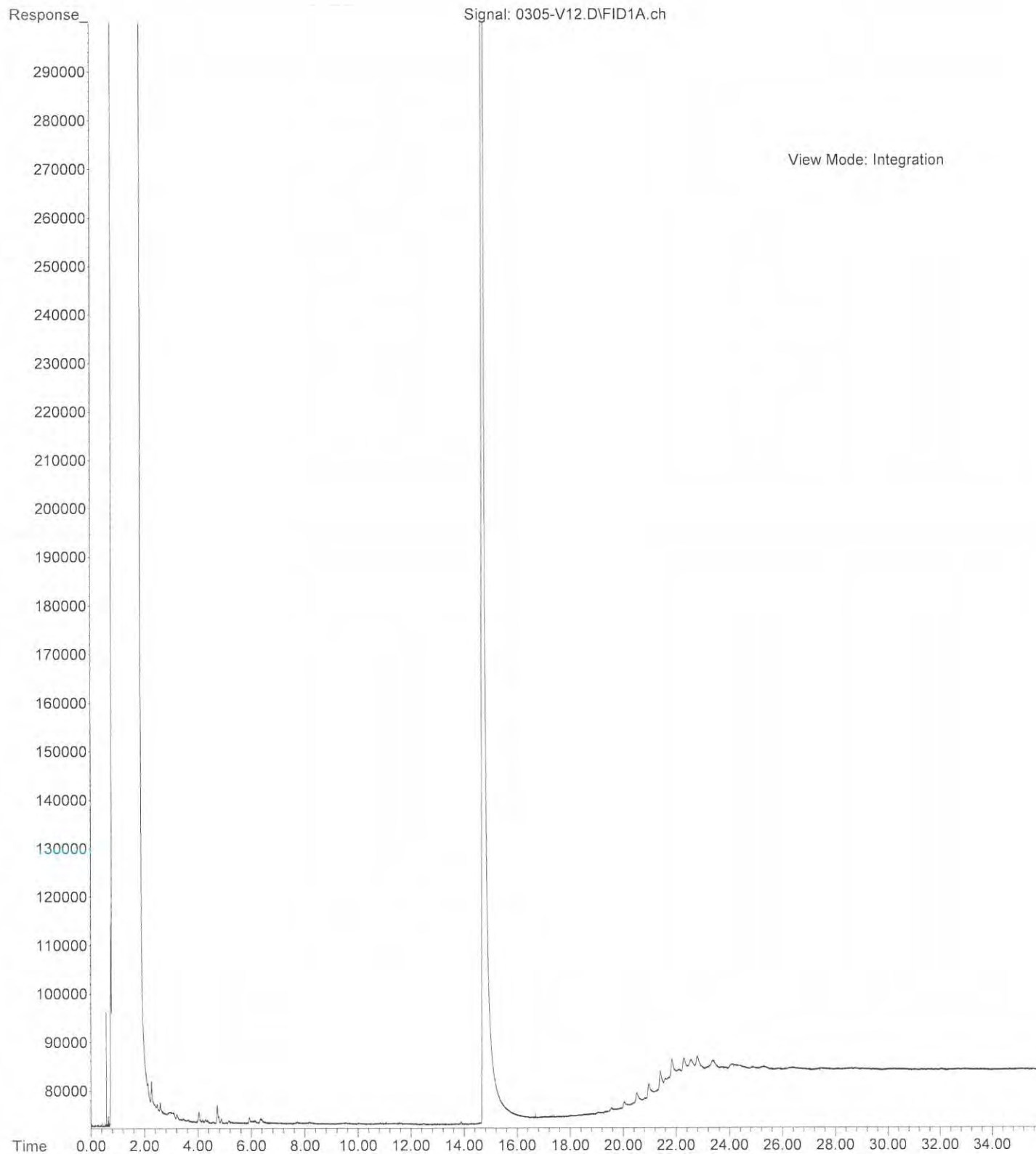
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Instrument : Vigo
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Misc Info :
Vial Number: 67



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Instrument : Vigo
Sample Name: 03-001-19
Misc Info :
Vial Number: 11



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Operator :
Acquired : 5 Mar 2015 17:44 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-20
Misc Info :
Vial Number: 12





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March 25, 2015

Paul Craig
GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, WA 98052

Re: Analytical Data for Project 4082-044-01
Laboratory Reference No. 1503-056

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on March 6, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish or checkmark.

David Baumeister
Project Manager

Enclosures

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

Case Narrative

Samples were collected on March 6, 2015 and received by the laboratory on March 6, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
DWR2-MW1	03-056-01	Water	3-6-15	3-6-15	
DWR2-MW2	03-056-02	Water	3-6-15	3-6-15	
B-B-BPR-8P	03-056-03	Water	3-6-15	3-6-15	

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

NWTPH-HCID

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DWR2-MW1					
Laboratory ID:	03-056-01					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-9-15	3-9-15	
Diesel Range Organics	Detected	0.26	NWTPH-HCID	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

Client ID:	DWR2-MW2					
Laboratory ID:	03-056-02					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-9-15	3-9-15	
Diesel Range Organics	ND	0.25	NWTPH-HCID	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	71	50-150				

Client ID:	B-B-BPR-8P					
Laboratory ID:	03-056-03					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-9-15	3-9-15	
Diesel Range Organics	ND	0.26	NWTPH-HCID	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.41	NWTPH-HCID	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DWR2-MW1					
Laboratory ID:	03-056-01					
Diesel Range Organics	0.40	0.26	NWTPH-Dx	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>80</i>	<i>50-150</i>				

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-056-01					
Client ID:	DWR2-MW1					
Arsenic	34	3.3	200.8	3-12-15	3-12-15	
Cadmium	ND	4.4	200.8	3-12-15	3-12-15	
Chromium	ND	11	200.8	3-12-15	3-12-15	
Copper	ND	11	200.8	3-12-15	3-12-15	
Lead	ND	1.1	200.8	3-12-15	3-12-15	
Mercury	ND	0.50	7470A	3-11-15	3-11-15	
Nickel	ND	22	200.8	3-12-15	3-12-15	
Silver	ND	11	200.8	3-12-15	3-12-15	
Zinc	ND	28	200.8	3-12-15	3-12-15	

Lab ID:	03-056-02					
Client ID:	DWR2-MW2					
Arsenic	5.0	3.3	200.8	3-12-15	3-12-15	
Cadmium	ND	4.4	200.8	3-12-15	3-12-15	
Chromium	ND	11	200.8	3-12-15	3-12-15	
Copper	ND	11	200.8	3-12-15	3-12-15	
Lead	ND	1.1	200.8	3-12-15	3-12-15	
Mercury	ND	0.50	7470A	3-11-15	3-11-15	
Nickel	ND	22	200.8	3-12-15	3-12-15	
Silver	ND	11	200.8	3-12-15	3-12-15	
Zinc	ND	28	200.8	3-12-15	3-12-15	

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-056-03					
Client ID:	B-B-BPR-8P					
Arsenic	12	3.3	200.8	3-12-15	3-12-15	
Cadmium	ND	4.4	200.8	3-12-15	3-12-15	
Chromium	ND	11	200.8	3-12-15	3-12-15	
Copper	ND	11	200.8	3-12-15	3-12-15	
Lead	ND	1.1	200.8	3-12-15	3-12-15	
Mercury	ND	0.50	7470A	3-11-15	3-11-15	
Nickel	ND	22	200.8	3-12-15	3-12-15	
Silver	ND	11	200.8	3-12-15	3-12-15	
Zinc	ND	28	200.8	3-12-15	3-12-15	

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
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pH
SM 4500-H B

Matrix: Water
Units: pH (@ 25°C)

Analyte	Result	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DWR2-MW1				
Laboratory ID:	03-056-01				
pH	6.3	SM 4500-H B	3-9-15	3-9-15	

Client ID:	DWR2-MW2				
Laboratory ID:	03-056-02				
pH	7.9	SM 4500-H B	3-9-15	3-9-15	

Client ID:	B-B-BPR-8P				
Laboratory ID:	03-056-03				
pH	8.2	SM 4500-H B	3-9-15	3-9-15	

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309W1					
Gasoline Range Organics	ND	0.10	NWTPH-HCID	3-9-15	3-9-15	
Diesel Range Organics	ND	0.25	NWTPH-HCID	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.40	NWTPH-HCID	3-9-15	3-9-15	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-9-15	3-9-15	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-9-15	3-9-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	77	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-056-01							
	ORIG	DUP						
Diesel Range Organics	0.398	0.367	NA	NA	NA	NA	8	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
Surrogate:								
<i>o</i> -Terphenyl				80	75	50-150		

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

**TOTAL METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-12-15
Date Analyzed: 3-12-15

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0312WM1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	3.3
Cadmium	200.8	ND	4.4
Chromium	200.8	ND	11
Copper	200.8	ND	11
Lead	200.8	ND	1.1
Nickel	200.8	ND	22
Silver	200.8	ND	11
Zinc	200.8	ND	28

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

**TOTAL MERCURY
EPA 7470A
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-11-15

Date Analyzed: 3-11-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: MB0311W1

Analyte	Method	Result	PQL
Mercury	7470A	ND	0.50

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

**TOTAL METALS
 EPA 200.8
 DUPLICATE QUALITY CONTROL**

Date Extracted: 3-12-15

Date Analyzed: 3-12-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-056-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	4.95	5.05	2	3.3	
Cadmium	ND	ND	NA	4.4	
Chromium	ND	ND	NA	11	
Copper	ND	ND	NA	11	
Lead	ND	ND	NA	1.1	
Nickel	ND	ND	NA	22	
Silver	ND	ND	NA	11	
Zinc	ND	ND	NA	28	

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

**TOTAL MERCURY
EPA 7470A
DUPLICATE QUALITY CONTROL**

Date Extracted: 3-11-15

Date Analyzed: 3-11-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-024-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.50	

Date of Report: March 25, 2015
 Samples Submitted: March 6, 2015
 Laboratory Reference: 1503-056
 Project: 4082-044-01

**TOTAL METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Extracted: 3-12-15

Date Analyzed: 3-12-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-056-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	111	109	94	109	93	0	
Cadmium	111	106	95	105	95	1	
Chromium	111	102	92	102	92	0	
Copper	111	99.5	90	98.6	89	1	
Lead	111	104	93	105	95	2	
Nickel	111	102	92	101	91	1	
Silver	111	101	91	103	93	2	
Zinc	111	107	97	112	101	5	

Date of Report: March 25, 2015
Samples Submitted: March 6, 2015
Laboratory Reference: 1503-056
Project: 4082-044-01

**TOTAL MERCURY
EPA 7470A
MS/MSD QUALITY CONTROL**

Date Extracted: 3-11-15

Date Analyzed: 3-11-15

Matrix: Water

Units: ug/L (ppb)

Lab ID: 03-024-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	12.5	13.3	106	12.9	103	3	



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

**Professional
Analytical
Services**

Mar 25 2015
On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister

Dear David Baumeister:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
DWR2-MW1	Water	15-A003050	Semi-Vol, VOA, CONV
DWR2-MW2	Water	15-A003051	Semi-Vol, VOA, CONV
B-B-BPR-8P	Water	15-A003052	Semi-Vol, VOA, CONV

Your samples were received on Monday, March 9, 2015. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

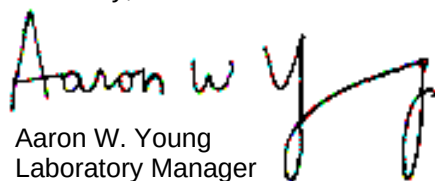
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,


Aaron W. Young
Laboratory Manager

Project #: 4082-044-01
PO Number: 03-056

BACT = Bacteriological
CONV = Conventional

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



Professional
Analytical
Services

ANALYSIS REPORT

On-Site Environmental
14648 NE 95th ST
Redmond, WA 98052
Attention: David Baumeister
Project #: 4082-044-01
PO Number: 03-056
All results reported on an as received basis.

Date Received: 03/09/15
Date Reported: 3/25/15

AMTEST Identification Number 15-A003050
Client Identification DWR2-MW1
Sampling Date 03/06/15, 13:08

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Cyanide Amenable	< 0.005	mg/l		0.005	SM 4500CN-G99	MR	03/13/15

Volatile Organic Analysis (VOA's)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,1,1,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,1-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2,3-Trichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dibromo3Chloropropane	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
1,2-Dibromoethane (EDB)	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,3-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,4-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
2-Butanone (MEK)	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
2-Hexanone	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
4-Methyl-2-Pentanone MIBK	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Acetone	< 10	ug/l		10.	EPA 624	NLN	03/17/15
Acrylonitrile	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromochloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromodichloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromoform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

Volatile Organic Analysis (VOA's) continued...

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Bromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Carbon Disulfide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Carbon Tetrachloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorodibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Dibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Ethyl Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
m,p Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methyl Iodide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methylene Chloride	< 2	ug/l		2.0	EPA 624	NLN	03/17/15
o-Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Styrene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Tetrachloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Toluene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
trans-1,4-Dichloro2butene	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Trichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trichlorofluoromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Vinyl Acetate	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Vinyl Chloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

VOA Surrogates

ANALYTE	% RECOVERY	LIMITS
D4-1,2,-Dichloroethane	107. %	70.9 - 129.
D8-Toluene	96.0 %	60.7 - 140.
4-Bromofluorobenzene	92.6 %	68.0 - 120.

Semi-Volatiles

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,2,4-Trichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,2-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,3-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,4-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,5-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,6-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dimethylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,6-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chloronaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3,3-Dichlorobenzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4,6-Dinitro-2-methylpheno	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Bromophenyl-phenyl ethe	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloro-3-methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chlorophenyl-phenyl eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Methylphenol (P.Cresol)	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Aniline	< 1.9	ug/l		1.9	EPA 625	NLN	03/10/15
Azobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzoic Acid	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzyl Alcohol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethoxy)methan	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethyl)ether	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroisopropyl)eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Ethylhexyl)phthalat	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Butylbenzylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Carbazole	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzofuran	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Diethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatiles continued...

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dimethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-butylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobutadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorocyclopentadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachloroethane	< 1	ug/l		0.95	EPA 625	NLN	03/10/15
Isophorone	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Nitrobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitrosodimethylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitroso-di-n-propylamin	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-nitrosodiphenylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pentachlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Polynuclear Aromatic Hydrocarbons (PAH)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
2-Methylnaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(b)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(g,h,i)perylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(k)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Chrysene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzo(ah)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-octylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluorene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Indeno(1,2,3-cd)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Naphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenanthrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatile Surrogates

ANALYTE	% RECOVERY	LIMITS
D5-Nitrobenzene	65.0 %	22.0 - 114.
2-Fluorobiphenyl	82.0 %	17.4 - 113.
D14-Terphenyl	87.9 %	29.6 - 142.

AMTEST Identification Number 15-A003051
Client Identification DWR2-MW2
Sampling Date 03/06/15, 14:21

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Cyanide Amenable	< 0.005	mg/l		0.005	SM 4500CN-G99	MR	03/13/15

Volatile Organic Analysis (VOA's)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,1,1,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,1-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2,3-Trichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dibromo3Chloropropane	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
1,2-Dibromoethane (EDB)	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,3-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,4-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
2-Butanone (MEK)	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
2-Hexanone	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
4-Methyl-2-Pentanone MIBK	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Acetone	< 10	ug/l		10.	EPA 624	NLN	03/17/15
Acrylonitrile	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromochloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromodichloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromoform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Carbon Disulfide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

Volatile Organic Analysis (VOA's) continued...

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Carbon Tetrachloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorodibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Dibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Ethyl Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
m,p Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methyl Iodide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methylene Chloride	< 2	ug/l		2.0	EPA 624	NLN	03/17/15
o-Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Styrene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Tetrachloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Toluene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
trans-1,4-Dichloro2butene	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Trichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trichlorofluoromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Vinyl Acetate	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Vinyl Chloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

VOA Surrogates

ANALYTE	% RECOVERY	LIMITS
D4-1,2,-Dichloroethane	114. %	70.9 - 129.
D8-Toluene	125. %	60.7 - 140.
4-Bromofluorobenzene	87.4 %	68.0 - 120.

Semi-Volatiles

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,2,4-Trichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,2-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,3-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,4-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,5-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,6-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dimethylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,6-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chloronaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3,3-Dichlorobenzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4,6-Dinitro-2-methylpheno	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Bromophenyl-phenyl ethe	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloro-3-methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chlorophenyl-phenyl eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Methylphenol (P.Cresol)	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Aniline	< 1.9	ug/l		1.9	EPA 625	NLN	03/10/15
Azobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzoic Acid	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzyl Alcohol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethoxy)methan	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethyl)ether	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroisopropyl)eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Ethylhexyl)phthalat	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Butylbenzylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Carbazole	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzofuran	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Diethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatiles continued...

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dimethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-butylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobutadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorocyclopentadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachloroethane	< 1	ug/l		0.95	EPA 625	NLN	03/10/15
Isophorone	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Nitrobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitrosodimethylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitroso-di-n-propylamin	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-nitrosodiphenylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pentachlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Polynuclear Aromatic Hydrocarbons (PAH)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
2-Methylnaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(b)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(g,h,i)perylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(k)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Chrysene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzo(ah)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-octylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluorene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Indeno(1,2,3-cd)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Naphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenanthrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatile Surrogates

ANALYTE	% RECOVERY	LIMITS
D5-Nitrobenzene	61.2 %	22.0 - 114.
2-Fluorobiphenyl	85.1 %	17.4 - 113.
D14-Terphenyl	99.4 %	29.6 - 142.

AMTEST Identification Number 15-A003052
Client Identification B-B-BPR-8P
Sampling Date 03/06/15, 15:16

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Cyanide Amenable	< 0.005	mg/l		0.005	SM 4500CN-G99	MR	03/13/15

Volatile Organic Analysis (VOA's)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,1,1,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,1-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2,2-Tetrachloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1,2-Trichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,1-Dichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2,3-Trichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dibromo3Chloropropane	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
1,2-Dibromoethane (EDB)	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,2-Dichloropropane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,3-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
1,4-Dichlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
2-Butanone (MEK)	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
2-Hexanone	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
4-Methyl-2-Pentanone MIBK	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Acetone	< 10	ug/l		10.	EPA 624	NLN	03/17/15
Acrylonitrile	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromochloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromodichloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromoform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Bromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Carbon Disulfide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

Volatile Organic Analysis (VOA's) continued...

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Carbon Tetrachloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorobenzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chlorodibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloroform	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Chloromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Cis-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Dibromomethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Ethyl Benzene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
m,p Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methyl Iodide	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Methylene Chloride	< 2	ug/l		2.0	EPA 624	NLN	03/17/15
o-Xylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Styrene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Tetrachloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Toluene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,2-Dichloroethene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trans-1,3-Dichloropropene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
trans-1,4-Dichloro2butene	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Trichloroethylene	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Trichlorofluoromethane	< 1	ug/l		1.0	EPA 624	NLN	03/17/15
Vinyl Acetate	< 5	ug/l		5.0	EPA 624	NLN	03/17/15
Vinyl Chloride	< 1	ug/l		1.0	EPA 624	NLN	03/17/15

VOA Surrogates

ANALYTE	% RECOVERY	LIMITS
D4-1,2,-Dichloroethane	118. %	70.9 - 129.
D8-Toluene	108. %	60.7 - 140.
4-Bromofluorobenzene	76.2 %	68.0 - 120.

Semi-Volatiles

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
1,2,4-Trichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,2-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,3-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
1,4-Dichlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,5-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4,6-Trichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dichlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dimethylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,4-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2,6-Dinitrotoluene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chloronaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Chlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
2-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3,3-Dichlorobenzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
3-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4,6-Dinitro-2-methylpheno	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Bromophenyl-phenyl ethe	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloro-3-methylphenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chloroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Chlorophenyl-phenyl eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Methylphenol (P.Cresol)	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitroaniline	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
4-Nitrophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Aniline	< 1.9	ug/l		1.9	EPA 625	NLN	03/10/15
Azobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzidine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzoic Acid	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzyl Alcohol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethoxy)methan	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroethyl)ether	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Chloroisopropyl)eth	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
bis(2-Ethylhexyl)phthalat	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Butylbenzylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Carbazole	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzofuran	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Diethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatiles continued...

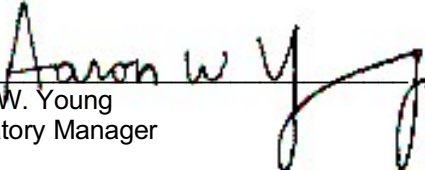
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dimethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-butylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobutadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorocyclopentadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachloroethane	< 1	ug/l		0.95	EPA 625	NLN	03/10/15
Isophorone	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Nitrobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitrosodimethylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-Nitroso-di-n-propylamin	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
N-nitrosodiphenylamine	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pentachlorophenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenol	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Polynuclear Aromatic Hydrocarbons (PAH)

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
2-Methylnaphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Acenaphthylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(a)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(b)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(g,h,i)perylene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Benzo(k)fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Chrysene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Dibenzo(ah)anthracene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-octylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluoranthene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Fluorene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Indeno(1,2,3-cd)pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Naphthalene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Phenanthrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Pyrene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15

Semi-Volatile Surrogates

ANALYTE	% RECOVERY	LIMITS
D5-Nitrobenzene	67.5 %	22.0 - 114.
2-Fluorobiphenyl	82.4 %	17.4 - 113.
D14-Terphenyl	92.8 %	29.6 - 142.


Aaron W. Young
Laboratory Manager

QC Summary for sample numbers: 15-A003050 to 15-A003052

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A003052	Cyanide Amenable	mg/l	< 0.005	0.21	0.20	105.00 %
15-A003052	Cyanide Amenable	mg/l	< 0.005	0.20	0.20	100.00 %
Blank	Chloromethane	ug/l	< 1	10.9	10.0	109.00 %
15-A003052	Chloromethane	ug/l	< 1	9.0	11.9	75.63 %
Blank	Vinyl Chloride	ug/l	< 1	11.	10.	110.00 %
15-A003052	Vinyl Chloride	ug/l	< 1	11.	12.	91.67 %
Blank	Bromomethane	ug/l	< 1	10.4	10.0	104.00 %
15-A003052	Bromomethane	ug/l	< 1	15.9	11.9	133.61 %
Blank	1,1-Dichloroethylene	ug/l	< 1	12.6	10.0	126.00 %
15-A003052	1,1-Dichloroethylene	ug/l	< 1	10.6	11.9	89.08 %
Blank	Acetone	ug/l	< 5	15.4	10.0	154.00 %
15-A003052	Acetone	ug/l	< 5	8.9	11.9	74.79 %
Blank	Carbon Disulfide	ug/l	< 1	14.4	10.0	144.00 %
15-A003052	Carbon Disulfide	ug/l	< 1	14.9	11.9	125.21 %
15-A003052	Methyl Iodide	ug/l	< 1	14.1	11.9	118.49 %
Blank	Methylene Chloride	ug/l	< 2	12.8	10.0	128.00 %
15-A003052	Methylene Chloride	ug/l	< 2	12.3	11.9	103.36 %
Blank	Trans-1,2-Dichloroethene	ug/l	< 1	13.	10.	130.00 %
15-A003052	Trans-1,2-Dichloroethene	ug/l	< 1	12.	12.	100.00 %
Blank	Cis-1,2-Dichloroethene	ug/l	< 1	7.5	10.	75.00 %
15-A003052	Cis-1,2-Dichloroethene	ug/l	< 1	13.	12.	108.33 %
Blank	1,1-Dichloroethane	ug/l	< 1	12.6	10.0	126.00 %
15-A003052	1,1-Dichloroethane	ug/l	< 1	12.6	11.9	105.88 %
Blank	Vinyl Acetate	ug/l	< 5	7.4	10.0	74.00 %
15-A003052	Vinyl Acetate	ug/l	< 5	9.4	11.9	78.99 %
Blank	Acrylonitrile	ug/l	< 1	12.9	10.0	129.00 %
15-A003052	Acrylonitrile	ug/l	< 1	9.0	11.9	75.63 %
Blank	2-Butanone (MEK)	ug/l	< 5	9.3	10.0	93.00 %
15-A003052	2-Butanone (MEK)	ug/l	< 5	7.2	11.9	60.50 %
Blank	Chloroform	ug/l	< 1	11.4	10.0	114.00 %
15-A003052	Chloroform	ug/l	< 1	11.5	11.9	96.64 %
Blank	1,1,1-Trichloroethane	ug/l	< 1	11.5	10.0	115.00 %
15-A003052	1,1,1-Trichloroethane	ug/l	< 1	11.2	11.9	94.12 %
Blank	Carbon Tetrachloride	ug/l	< 1	9.9	10.0	99.00 %
15-A003052	Carbon Tetrachloride	ug/l	< 1	10.2	11.9	85.71 %
Blank	Benzene	ug/l	< 1	12.6	10.0	126.00 %
15-A003052	Benzene	ug/l	< 1	11.3	11.9	94.96 %

MATRIX SPIKES continued....

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
Blank	1,2-Dichloroethane	ug/l	< 1	11.6	10.0	116.00 %
15-A003052	1,2-Dichloroethane	ug/l	< 1	10.6	11.9	89.08 %
Blank	Trichloroethylene	ug/l	< 1	12.1	10.0	121.00 %
15-A003052	Trichloroethylene	ug/l	< 1	10.8	11.9	90.76 %
Blank	Bromochloromethane	ug/l	< 1	11.	10.	110.00 %
15-A003052	Bromochloromethane	ug/l	< 1	11.	12.	91.67 %
Blank	1,2-Dibromoethane (EDB)	ug/l	< 1	12.	10.	120.00 %
15-A003052	1,2-Dibromoethane (EDB)	ug/l	< 1	10.	12.	83.33 %
Blank	Dibromomethane	ug/l	< 1	12.	10.	120.00 %
15-A003052	Dibromomethane	ug/l	< 1	12.	12.	100.00 %
Blank	1,2-Dichloropropane	ug/l	< 1	12.2	10.0	122.00 %
15-A003052	1,2-Dichloropropane	ug/l	< 1	12.0	11.9	100.84 %
Blank	4-Methyl-2-Pentanone MIBK	ug/l	< 5	11.2	10.0	112.00 %
15-A003052	4-Methyl-2-Pentanone MIBK	ug/l	< 5	9.2	11.9	77.31 %
Blank	Toluene	ug/l	< 1	11.0	10.0	110.00 %
15-A003052	Toluene	ug/l	< 1	10.9	11.9	91.60 %
Blank	Cis-1,3-Dichloropropene	ug/l	< 1	13.0	10.0	130.00 %
15-A003052	Cis-1,3-Dichloropropene	ug/l	< 1	12.4	11.9	104.20 %
Blank	1,1,2-Trichloroethane	ug/l	< 1	11.9	10.0	119.00 %
15-A003052	1,1,2-Trichloroethane	ug/l	< 1	10.7	11.9	89.92 %
Blank	Tetrachloroethylene	ug/l	< 1	12.7	10.0	127.00 %
15-A003052	Tetrachloroethylene	ug/l	< 1	9.4	11.9	78.99 %
Blank	2-Hexanone	ug/l	< 5	11.4	10.0	114.00 %
15-A003052	2-Hexanone	ug/l	< 5	8.5	11.9	71.43 %
Blank	Chlorobenzene	ug/l	< 1	11.4	10.0	114.00 %
15-A003052	Chlorobenzene	ug/l	< 1	12.0	11.9	100.84 %
Blank	Ethyl Benzene	ug/l	< 1	11.8	10.0	118.00 %
15-A003052	Ethyl Benzene	ug/l	< 1	11.9	11.9	100.00 %
Blank	m,p Xylene	ug/l	< 1	24.0	20.0	120.00 %
15-A003052	m,p Xylene	ug/l	< 1	24.4	23.8	102.52 %
Blank	o-Xylene	ug/l	< 1	12.1	10.0	121.00 %
15-A003052	o-Xylene	ug/l	< 1	11.8	11.9	99.16 %
Blank	Styrene	ug/l	< 1	11.1	10.0	111.00 %
15-A003052	Styrene	ug/l	< 1	12.2	11.9	102.52 %
Blank	Bromoform	ug/l	< 1	10.	10.	100.00 %
15-A003052	Bromoform	ug/l	< 1	14.	12.	116.67 %
Blank	1,1,2,2-Tetrachloroethane	ug/l	< 1	11.	10.	110.00 %
15-A003052	1,1,2,2-Tetrachloroethane	ug/l	< 1	10.	12.	83.33 %
Blank	1,1,1,2-Tetrachloroethane	ug/l	< 1	11.	10.	110.00 %
15-A003052	1,1,1,2-Tetrachloroethane	ug/l	< 1	14.	12.	116.67 %
Blank	Trans-1,3-Dichloropropene	ug/l	< 1	16.	10.	160.00 %
15-A003052	Trans-1,3-Dichloropropene	ug/l	< 1	10.	12.	83.33 %
Blank	1,3-Dichlorobenzene	ug/l	< 1	12.	10.	120.00 %
15-A003052	1,3-Dichlorobenzene	ug/l	< 1	11.	12.	91.67 %
Blank	1,4-Dichlorobenzene	ug/l	< 1	11.8	10.0	118.00 %
15-A003052	1,4-Dichlorobenzene	ug/l	< 1	10.5	11.9	88.24 %
Blank	1,2-Dichlorobenzene	ug/l	< 1	11.8	10.0	118.00 %
15-A003052	1,2-Dichlorobenzene	ug/l	< 1	10.1	11.9	84.87 %
Blank	1,2-Dibromo3Chloropropane	ug/l	< 5	11.	10.	110.00 %

MATRIX SPIKES continued....

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A003052	1,2-Dibromo3Chloropropane	ug/l	< 5	7.3	12.	60.83 %
Blank	trans-1,4-Dichloro2butene	ug/l	< 5	13.	10.	130.00 %
15-A003052	trans-1,4-Dichloro2butene	ug/l	< 5	9.7	12.	80.83 %
Blank	1,2,3-Trichloropropane	ug/l	< 1	15.	10.	150.00 %
15-A003052	1,2,3-Trichloropropane	ug/l	< 1	11.	12.	91.67 %
Blank	Phenol	ug/l	< 2	13.	50.	26.00 %
Blank	Phenol	ug/l	< 2	12.	50.	24.00 %
Blank	bis(2-Chloroethyl)ether	ug/l	< 2	39.	50.	78.00 %
Blank	bis(2-Chloroethyl)ether	ug/l	< 2	36.	50.	72.00 %
Blank	2-Chlorophenol	ug/l	< 2	24.	50.	48.00 %
Blank	2-Chlorophenol	ug/l	< 2	24.	50.	48.00 %
Blank	1,3-Dichlorobenzene	ug/l	< 2	36.	50.	72.00 %
Blank	1,3-Dichlorobenzene	ug/l	< 2	40.	50.	80.00 %
Blank	1,4-Dichlorobenzene	ug/l	< 2	40.	50.	80.00 %
Blank	1,4-Dichlorobenzene	ug/l	< 2	41.	50.	82.00 %
Blank	1,2-Dichlorobenzene	ug/l	< 2	48.	50.	96.00 %
Blank	1,2-Dichlorobenzene	ug/l	< 2	44.	50.	88.00 %
Blank	bis(2-Chloroisopropyl)eth	ug/l	< 2	34.	50.	68.00 %
Blank	bis(2-Chloroisopropyl)eth	ug/l	< 2	32.	50.	64.00 %
Blank	N-Nitroso-di-n-propylamin	ug/l	< 2	44.	50.	88.00 %
Blank	N-Nitroso-di-n-propylamin	ug/l	< 2	40.	50.	80.00 %
Blank	Hexachloroethane	ug/l	< 1	24.	50.	48.00 %
Blank	Hexachloroethane	ug/l	< 1	25.	50.	50.00 %
Blank	Nitrobenzene	ug/l	< 2	44.	50.	88.00 %
Blank	Nitrobenzene	ug/l	< 2	41.	50.	82.00 %
Blank	Isophorone	ug/l	< 2	44.	50.	88.00 %
Blank	Isophorone	ug/l	< 2	41.	50.	82.00 %
Blank	2-Nitrophenol	ug/l	< 2	22.	50.	44.00 %
Blank	2-Nitrophenol	ug/l	< 2	22.	50.	44.00 %
Blank	2,4-Dimethylphenol	ug/l	< 2	22.	50.	44.00 %
Blank	2,4-Dimethylphenol	ug/l	< 2	20.	50.	40.00 %
Blank	bis(2-Chloroethoxy)methan	ug/l	< 2	43.	50.	86.00 %
Blank	bis(2-Chloroethoxy)methan	ug/l	< 2	41.	50.	82.00 %
Blank	2,4-Dichlorophenol	ug/l	< 2	29.	50.	58.00 %
Blank	2,4-Dichlorophenol	ug/l	< 2	30.	50.	60.00 %
Blank	1,2,4-Trichlorobenzene	ug/l	< 2	47.	50.	94.00 %
Blank	1,2,4-Trichlorobenzene	ug/l	< 2	49.	50.	98.00 %
Blank	Naphthalene	ug/l	< 2	34.	50.	68.00 %
Blank	Naphthalene	ug/l	< 2	33.	50.	66.00 %
Blank	Hexachlorobutadiene	ug/l	< 2	42.	50.	84.00 %
Blank	Hexachlorobutadiene	ug/l	< 2	46.	50.	92.00 %
Blank	4-Chloro-3-methylphenol	ug/l	< 2	30.	50.	60.00 %
Blank	4-Chloro-3-methylphenol	ug/l	< 2	28.	50.	56.00 %
Blank	2,4,6-Trichlorophenol	ug/l	< 2	18.	50.	36.00 %
Blank	2,4,6-Trichlorophenol	ug/l	< 2	19.	50.	38.00 %
Blank	2-Chloronaphthalene	ug/l	< 2	45.	50.	90.00 %
Blank	2-Chloronaphthalene	ug/l	< 2	44.	50.	88.00 %
Blank	Dimethylphthalate	ug/l	< 2	48.	50.	96.00 %
Blank	Dimethylphthalate	ug/l	< 2	46.	50.	92.00 %

MATRIX SPIKES continued....

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
Blank	Acenaphthylene	ug/l	< 2	31.	50.	62.00 %
Blank	Acenaphthylene	ug/l	< 2	32.	50.	64.00 %
Blank	2,6-Dinitrotoluene	ug/l	< 2	54.	50.	108.00 %
Blank	2,6-Dinitrotoluene	ug/l	< 2	50.	50.	100.00 %
Blank	Acenaphthene	ug/l	< 2	38.	50.	76.00 %
Blank	Acenaphthene	ug/l	< 2	35.	50.	70.00 %
Blank	4-Nitrophenol	ug/l	< 2	50.	50.	100.00 %
Blank	4-Nitrophenol	ug/l	< 2	49.	50.	98.00 %
Blank	2,4-Dinitrotoluene	ug/l	< 2	49.	50.	98.00 %
Blank	2,4-Dinitrotoluene	ug/l	< 2	47.	50.	94.00 %
Blank	Diethylphthalate	ug/l	< 2	42.	50.	84.00 %
Blank	Diethylphthalate	ug/l	< 2	41.	50.	82.00 %
Blank	4-Chlorophenyl-phenyl eth	ug/l	< 2	50.	50.	100.00 %
Blank	4-Chlorophenyl-phenyl eth	ug/l	< 2	49.	50.	98.00 %
Blank	Fluorene	ug/l	< 2	38.	50.	76.00 %
Blank	Fluorene	ug/l	< 2	35.	50.	70.00 %
Blank	4-Bromophenyl-phenyl ethe	ug/l	< 2	49.	50.	98.00 %
Blank	4-Bromophenyl-phenyl ethe	ug/l	< 2	42.	50.	84.00 %
Blank	Hexachlorobenzene	ug/l	< 2	47.	50.	94.00 %
Blank	Hexachlorobenzene	ug/l	< 2	42.	50.	84.00 %
Blank	Phenanthrene	ug/l	< 2	36.	50.	72.00 %
Blank	Phenanthrene	ug/l	< 2	32.	50.	64.00 %
Blank	Anthracene	ug/l	< 2	37.	50.	74.00 %
Blank	Anthracene	ug/l	< 2	33.	50.	66.00 %
Blank	Di-n-butylphthalate	ug/l	< 2	53.	50.	106.00 %
Blank	Di-n-butylphthalate	ug/l	< 2	47.	50.	94.00 %
Blank	Fluoranthene	ug/l	< 2	40.	50.	80.00 %
Blank	Fluoranthene	ug/l	< 2	35.	50.	70.00 %
Blank	Pyrene	ug/l	< 2	40.	50.	80.00 %
Blank	Pyrene	ug/l	< 2	37.	50.	74.00 %
Blank	Butylbenzylphthalate	ug/l	< 2	50.	50.	100.00 %
Blank	Butylbenzylphthalate	ug/l	< 2	46.	50.	92.00 %
Blank	3,3-Dichlorobenzidine	ug/l	< 2	51.	50.	102.00 %
Blank	3,3-Dichlorobenzidine	ug/l	< 2	48.	50.	96.00 %
Blank	Benzo(a)anthracene	ug/l	< 2	41.	50.	82.00 %
Blank	Benzo(a)anthracene	ug/l	< 2	33.	50.	66.00 %
Blank	Chrysene	ug/l	< 2	36.	50.	72.00 %
Blank	Chrysene	ug/l	< 2	33.	50.	66.00 %
Blank	bis(2-Ethylhexyl)phthalat	ug/l	< 2	50.	50.	100.00 %
Blank	bis(2-Ethylhexyl)phthalat	ug/l	< 2	46.	50.	92.00 %
Blank	Di-n-octylphthalate	ug/l	< 2	53.	50.	106.00 %
Blank	Di-n-octylphthalate	ug/l	< 2	56.	50.	112.00 %
Blank	Benzo(b)fluoranthene	ug/l	< 2	37.	50.	74.00 %
Blank	Benzo(b)fluoranthene	ug/l	< 2	33.	50.	66.00 %
Blank	Benzo(k)fluoranthene	ug/l	< 2	49.	50.	98.00 %
Blank	Benzo(k)fluoranthene	ug/l	< 2	53.	50.	106.00 %
Blank	Benzo(a)pyrene	ug/l	< 2	30.	50.	60.00 %
Blank	Benzo(a)pyrene	ug/l	< 2	33.	50.	66.00 %
Blank	Indeno(1,2,3-cd)pyrene	ug/l	< 2	27.	50.	54.00 %

MATRIX SPIKES continued....

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
Blank	Indeno(1,2,3-cd)pyrene	ug/l	< 2	30.	50.	60.00 %
Blank	Dibenzo(ah)anthracene	ug/l	< 2	24.	50.	48.00 %
Blank	Dibenzo(ah)anthracene	ug/l	< 2	27.	50.	54.00 %
Blank	Benzo(g,h,i)perylene	ug/l	< 2	26.	50.	52.00 %
Blank	Benzo(g,h,i)perylene	ug/l	< 2	28.	50.	56.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Cyanide Amenable	mg/l	0.21	0.20	4.9
Spike	Phenol	ug/l	13.	12.	8.0
Spike	bis(2-Chloroethyl)ether	ug/l	39.	36.	8.0
Spike	2-Chlorophenol	ug/l	24.	24.	0.00
Spike	1,3-Dichlorobenzene	ug/l	36.	40.	11.
Spike	1,4-Dichlorobenzene	ug/l	40.	41.	2.5
Spike	1,2-Dichlorobenzene	ug/l	48.	44.	8.7
Spike	bis(2-Chloroisopropyl)eth	ug/l	34.	32.	6.1
Spike	N-Nitroso-di-n-propylamin	ug/l	44.	40.	9.5
Spike	Hexachloroethane	ug/l	24.	25.	4.1
Spike	Nitrobenzene	ug/l	44.	41.	7.1
Spike	Isophorone	ug/l	44.	41.	7.1
Spike	2-Nitrophenol	ug/l	22.	22.	0.00
Spike	2,4-Dimethylphenol	ug/l	22.	20.	9.5
Spike	bis(2-Chloroethoxy)methan	ug/l	43.	41.	4.8
Spike	2,4-Dichlorophenol	ug/l	29.	30.	3.4
Spike	1,2,4-Trichlorobenzene	ug/l	47.	49.	4.2
Spike	Naphthalene	ug/l	34.	33.	3.0
Spike	Hexachlorobutadiene	ug/l	42.	46.	9.1
Spike	4-Chloro-3-methylphenol	ug/l	30.	28.	6.9
Spike	2,4,6-Trichlorophenol	ug/l	18.	19.	5.4
Spike	2-Chloronaphthalene	ug/l	45.	44.	2.2
Spike	Dimethylphthalate	ug/l	48.	46.	4.3
Spike	Acenaphthylene	ug/l	31.	32.	3.2
Spike	2,6-Dinitrotoluene	ug/l	54.	50.	7.7
Spike	Acenaphthene	ug/l	38.	35.	8.2
Spike	4-Nitrophenol	ug/l	50.	49.	2.0
Spike	2,4-Dinitrotoluene	ug/l	49.	47.	4.2
Spike	Diethylphthalate	ug/l	42.	41.	2.4
Spike	4-Chlorophenyl-phenyl ethe	ug/l	50.	49.	2.0
Spike	Fluorene	ug/l	38.	35.	8.2
Spike	4-Bromophenyl-phenyl ethe	ug/l	49.	42.	15.
Spike	Hexachlorobenzene	ug/l	47.	42.	11.
Spike	Phenanthrene	ug/l	36.	32.	12.
Spike	Anthracene	ug/l	37.	33.	11.
Spike	Di-n-butylphthalate	ug/l	53.	47.	12.
Spike	Fluoranthene	ug/l	40.	35.	13.
Spike	Pyrene	ug/l	40.	37.	7.8
Spike	Butylbenzylphthalate	ug/l	50.	46.	8.3
Spike	3,3-Dichlorobenzidine	ug/l	51.	48.	6.1
Spike	Benzo(a)anthracene	ug/l	41.	33.	22.
Spike	Chrysene	ug/l	36.	33.	8.7
Spike	bis(2-Ethylhexyl)phthalat	ug/l	50.	46.	8.3
Spike	Di-n-octylphthalate	ug/l	53.	56.	5.5

MATRIX SPIKE DUPLICATES continued....

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Benzo(b)fluoranthene	ug/l	37.	33.	11.
Spike	Benzo(k)fluoranthene	ug/l	49.	53.	7.8
Spike	Benzo(a)pyrene	ug/l	30.	33.	9.5
Spike	Indeno(1,2,3-cd)pyrene	ug/l	27.	30.	11.
Spike	Dibenzo(ah)anthracene	ug/l	24.	27.	12.
Spike	Benzo(g,h,i)perylene	ug/l	26.	28.	7.4

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Cyanide Amenable	mg/l	0.20	0.21	105. %
Chloromethane	ug/l	10.0	9.8	98.0 %
Vinyl Chloride	ug/l	10.	9.9	99.0 %
Bromomethane	ug/l	10.0	7.4	74.0 %
Chloroethane	ug/l	10.0	9.9	99.0 %
Trichlorofluoromethane	ug/l	10.0	10.8	108. %
1,1-Dichloroethylene	ug/l	10.0	11.0	110. %
Acetone	ug/l	10.0	8.8	88.0 %
Carbon Disulfide	ug/l	10.0	10.6	106. %
Methyl Iodide	ug/l	10.0	11.0	110. %
Methylene Chloride	ug/l	10.0	12.1	121. %
Trans-1,2-Dichloroethene	ug/l	10.	11.	110. %
Cis-1,2-Dichloroethene	ug/l	10.	11.	110. %
1,1-Dichloroethane	ug/l	10.0	11.0	110. %
Vinyl Acetate	ug/l	10.0	11.8	118. %
Acrylonitrile	ug/l	10.0	11.9	119. %
2-Butanone (MEK)	ug/l	10.0	9.3	93.0 %
Chloroform	ug/l	10.0	10.6	106. %
1,1,1-Trichloroethane	ug/l	10.0	10.5	105. %
Carbon Tetrachloride	ug/l	10.0	8.8	88.0 %
Benzene	ug/l	10.0	11.8	118. %
1,2-Dichloroethane	ug/l	10.0	11.0	110. %
Trichloroethylene	ug/l	10.0	11.2	112. %
Bromodichloromethane	ug/l	10.0	11.1	111. %
Bromochloromethane	ug/l	10.	10.	100. %
1,2-Dibromoethane (EDB)	ug/l	10.	11.	110. %
Dibromomethane	ug/l	10.	11.	110. %
1,2-Dichloropropane	ug/l	10.0	11.4	114. %
4-Methyl-2-Pentanone MIBK	ug/l	10.0	11.8	118. %
Toluene	ug/l	10.0	10.6	106. %
Cis-1,3-Dichloropropene	ug/l	10.0	11.1	111. %
1,1,2-Trichloroethane	ug/l	10.0	10.9	109. %
Tetrachloroethylene	ug/l	10.0	11.7	117. %
2-Hexanone	ug/l	10.0	11.7	117. %
Chlorodibromomethane	ug/l	10.0	10.8	108. %
Chlorobenzene	ug/l	10.0	10.9	109. %
Ethyl Benzene	ug/l	10.0	11.3	113. %
m,p Xylene	ug/l	20.0	22.9	114. %

STANDARD REFERENCE MATERIALS continued....

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
o-Xylene	ug/l	10.0	11.6	116. %
Styrene	ug/l	10.0	11.4	114. %
Bromoform	ug/l	10.	10.	100. %
1,1,2,2-Tetrachloroethane	ug/l	10.	10.	100. %
1,1,1,2-Tetrachloroethane	ug/l	10.	10.	100. %
Trans-1,3-Dichloropropene	ug/l	10.	12.	120. %
1,3-Dichlorobenzene	ug/l	10.	11.	110. %
1,4-Dichlorobenzene	ug/l	10.0	11.0	110. %
1,2-Dichlorobenzene	ug/l	10.0	11.1	111. %
1,2-Dibromo3Chloropropane	ug/l	10.	12.	120. %
trans-1,4-Dichloro2butene	ug/l	10.	11.	110. %
1,2,3-Trichloropropane	ug/l	10.	11.	110. %
N-Nitrosodimethylamine	ug/l	40.	37.	92.5 %
Aniline	ug/l	40.	48.	120. %
Phenol	ug/l	40.	45.	112. %
bis(2-Chloroethyl)ether	ug/l	40.	47.	118. %
2-Chlorophenol	ug/l	40.	41.	102. %
1,3-Dichlorobenzene	ug/l	40.	41.	102. %
1,4-Dichlorobenzene	ug/l	40.	40.	100. %
Benzyl Alcohol	ug/l	40.	48.	120. %
1,2-Dichlorobenzene	ug/l	40.	42.	105. %
2-Methylphenol	ug/l	40.	39.	97.5 %
bis(2-Chloroisopropyl)eth	ug/l	40.	41.	102. %
4-Methylphenol (P.Cresol)	ug/l	40.	34.	85.0 %
N-Nitroso-di-n-propylamin	ug/l	40.	41.	102. %
Hexachloroethane	ug/l	40.	32.	80.0 %
Nitrobenzene	ug/l	40.	39.	97.5 %
Isophorone	ug/l	40.	38.	95.0 %
2-Nitrophenol	ug/l	40.	42.	105. %
2,4-Dimethylphenol	ug/l	40.	43.	108. %
bis(2-Chloroethoxy)methan	ug/l	40.	42.	105. %
2,4-Dichlorophenol	ug/l	40.	42.	105. %
1,2,4-Trichlorobenzene	ug/l	40.	40.	100. %
Naphthalene	ug/l	40.	41.	102. %
4-Chloroaniline	ug/l	40.	44.	110. %
Hexachlorobutadiene	ug/l	40.	41.	102. %
4-Chloro-3-methylphenol	ug/l	40.	43.	108. %
2-Methylnaphthalene	ug/l	40.	40.	100. %
2,4,6-Trichlorophenol	ug/l	40.	38.	95.0 %
2,4,5-Trichlorophenol	ug/l	40.	36.	90.0 %
2-Chloronaphthalene	ug/l	40.	39.	97.5 %
2-Nitroaniline	ug/l	40.	44.	110. %
Dimethylphthalate	ug/l	40.	41.	102. %
Acenaphthylene	ug/l	40.	37.	92.5 %

STANDARD REFERENCE MATERIALS continued....

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
2,6-Dinitrotoluene	ug/l	40.	41.	102. %
3-Nitroaniline	ug/l	40.	44.	110. %
Acenaphthene	ug/l	40.	38.	95.0 %
4-Nitrophenol	ug/l	40.	38.	95.0 %
Dibenzofuran	ug/l	40.	35.	87.5 %
2,4-Dinitrotoluene	ug/l	40.	37.	92.5 %
Diethylphthalate	ug/l	40.	36.	90.0 %
4-Chlorophenyl-phenyl eth	ug/l	40.	43.	108. %
Fluorene	ug/l	40.	40.	100. %
4-Nitroaniline	ug/l	40.	47.	118. %
N-nitrosodiphenylamine	ug/l	40.	41.	102. %
Azobenzene	ug/l	40.	38.	95.0 %
4-Bromophenyl-phenyl ethe	ug/l	40.	39.	97.5 %
Hexachlorobenzene	ug/l	40.	40.	100. %
Pentachlorophenol	ug/l	40.	44.	110. %
Phenanthrene	ug/l	40.	38.	95.0 %
Anthracene	ug/l	40.	38.	95.0 %
Carbazole	ug/l	40.	45.	112. %
Di-n-butylphthalate	ug/l	40.	42.	105. %
Fluoranthene	ug/l	40.	42.	105. %
Benzidine	ug/l	40.	33.	82.5 %
Pyrene	ug/l	40.	42.	105. %
Butylbenzylphthalate	ug/l	40.	43.	108. %
3,3-Dichlorobenzidine	ug/l	40.	47.	118. %
Benzo(a)anthracene	ug/l	40.	42.	105. %
Chrysene	ug/l	40.	38.	95.0 %
bis(2-Ethylhexyl)phthalat	ug/l	40.	43.	108. %
Di-n-octylphthalate	ug/l	40.	57.	142. %
Benzo(b)fluoranthene	ug/l	40.	41.	102. %
Benzo(k)fluoranthene	ug/l	40.	44.	110. %
Benzo(a)pyrene	ug/l	40.	44.	110. %
Indeno(1,2,3-cd)pyrene	ug/l	40.	32.	80.0 %
Dibenzo(ah)anthracene	ug/l	40.	32.	80.0 %
Benzo(g,h,i)perylene	ug/l	40.	35.	87.5 %

BLANKS

ANALYTE	UNITS	RESULT
Cyanide Amenable	mg/l	< 0.005
Chloromethane	ug/l	< 1
Vinyl Chloride	ug/l	< 1
Bromomethane	ug/l	< 1
Chloroethane	ug/l	< 1
Trichlorofluoromethane	ug/l	< 1
1,1-Dichloroethylene	ug/l	< 1

BLANKS continued....

ANALYTE	UNITS	RESULT
Acetone	ug/l	< 5
Carbon Disulfide	ug/l	< 1
Methyl Iodide	ug/l	< 1
Methylene Chloride	ug/l	< 2
Trans-1,2-Dichloroethene	ug/l	< 1
Cis-1,2-Dichloroethene	ug/l	< 1
1,1-Dichloroethane	ug/l	< 1
Vinyl Acetate	ug/l	< 5
Acrylonitrile	ug/l	< 1
2-Butanone (MEK)	ug/l	< 5
Chloroform	ug/l	< 1
1,1,1-Trichloroethane	ug/l	< 1
Carbon Tetrachloride	ug/l	< 1
Benzene	ug/l	< 1
1,2-Dichloroethane	ug/l	< 1
Trichloroethylene	ug/l	< 1
Bromodichloromethane	ug/l	< 1
Bromochloromethane	ug/l	< 1
1,2-Dibromoethane (EDB)	ug/l	< 1
Dibromomethane	ug/l	< 1
1,2-Dichloropropane	ug/l	< 1
4-Methyl-2-Pentanone MIBK	ug/l	< 5
Toluene	ug/l	< 1
Cis-1,3-Dichloropropene	ug/l	< 1
1,1,2-Trichloroethane	ug/l	< 1
Tetrachloroethylene	ug/l	< 1
2-Hexanone	ug/l	< 5
Chlorodibromomethane	ug/l	< 1
Chlorobenzene	ug/l	< 1
Ethyl Benzene	ug/l	< 1
m,p Xylene	ug/l	< 1
o-Xylene	ug/l	< 1
Styrene	ug/l	< 1
Bromoform	ug/l	< 1
1,1,2,2-Tetrachloroethane	ug/l	< 1
1,1,1,2-Tetrachloroethane	ug/l	< 1
Trans-1,3-Dichloropropene	ug/l	< 1
1,3-Dichlorobenzene	ug/l	< 1
1,4-Dichlorobenzene	ug/l	< 1
1,2-Dichlorobenzene	ug/l	< 1
1,2-Dibromo3Chloropropane	ug/l	< 5

BLANKS continued....

ANALYTE	UNITS	RESULT
trans-1,4-Dichloro2butene	ug/l	< 5
1,2,3-Trichloropropane	ug/l	< 1
N-Nitrosodimethylamine	ug/l	< 2
Aniline	ug/l	< 2
Phenol	ug/l	< 2
bis(2-Chloroethyl)ether	ug/l	< 2
2-Chlorophenol	ug/l	< 2
1,3-Dichlorobenzene	ug/l	< 2
1,4-Dichlorobenzene	ug/l	< 2
Benzyl Alcohol	ug/l	< 2
1,2-Dichlorobenzene	ug/l	< 2
2-Methylphenol	ug/l	< 2
bis(2-Chloroisopropyl)eth	ug/l	< 2
4-Methylphenol (P.Cresol)	ug/l	< 2
N-Nitroso-di-n-propylamin	ug/l	< 2
Hexachloroethane	ug/l	< 1
Nitrobenzene	ug/l	< 2
Isophorone	ug/l	< 2
2-Nitrophenol	ug/l	< 2
2,4-Dimethylphenol	ug/l	< 2
Benzoic Acid	ug/l	< 2
bis(2-Chloroethoxy)methan	ug/l	< 2
2,4-Dichlorophenol	ug/l	< 2
1,2,4-Trichlorobenzene	ug/l	< 2
Naphthalene	ug/l	< 2
4-Chloroaniline	ug/l	< 2
Hexachlorobutadiene	ug/l	< 2
4-Chloro-3-methylphenol	ug/l	< 2
2-Methylnaphthalene	ug/l	< 2
Hexachlorocyclopentadiene	ug/l	< 2
2,4,6-Trichlorophenol	ug/l	< 2
2,4,5-Trichlorophenol	ug/l	< 2
2-Chloronaphthalene	ug/l	< 2
2-Nitroaniline	ug/l	< 2
Dimethylphthalate	ug/l	< 2
Acenaphthylene	ug/l	< 2
2,6-Dinitrotoluene	ug/l	< 2
3-Nitroaniline	ug/l	< 2
Acenaphthene	ug/l	< 2
2,4-Dinitrophenol	ug/l	< 2
4-Nitrophenol	ug/l	< 2

BLANKS continued....

ANALYTE	UNITS	RESULT
Dibenzofuran	ug/l	< 2
2,4-Dinitrotoluene	ug/l	< 2
Diethylphthalate	ug/l	< 2
4-Chlorophenyl-phenyl eth	ug/l	< 2
Fluorene	ug/l	< 2
4-Nitroaniline	ug/l	< 2
4,6-Dinitro-2-methylpheno	ug/l	< 2
N-nitrosodiphenylamine	ug/l	< 2
Azobenzene	ug/l	< 2
4-Bromophenyl-phenyl ethe	ug/l	< 2
Hexachlorobenzene	ug/l	< 2
Pentachlorophenol	ug/l	< 2
Phenanthrene	ug/l	< 2
Anthracene	ug/l	< 2
Carbazole	ug/l	< 2
Di-n-butylphthalate	ug/l	< 2
Fluoranthene	ug/l	< 2
Benzidine	ug/l	< 2
Pyrene	ug/l	< 2
Butylbenzylphthalate	ug/l	< 2
3,3-Dichlorobenzidine	ug/l	< 2
Benzo(a)anthracene	ug/l	< 2
Chrysene	ug/l	< 2
bis(2-Ethylhexyl)phthalat	ug/l	< 2
Di-n-octylphthalate	ug/l	< 2
Benzo(b)fluoranthene	ug/l	< 2
Benzo(k)fluoranthene	ug/l	< 2
Benzo(a)pyrene	ug/l	< 2
Indeno(1,2,3-cd)pyrene	ug/l	< 2
Dibenzo(ah)anthracene	ug/l	< 2
Benzo(g,h,i)perylene	ug/l	< 2



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OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-056

Lab ID: 1503079

March 16, 2015

Attention David Baumeister:

Fremont Analytical, Inc. received 3 sample(s) on 3/9/2015 for the analyses presented in the following report.

Flashpoint by EPA 1010/ASTM D93

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager



Date: 03/16/2015

CLIENT: OnSite Environmental Inc
Project: 03-056
Lab Order: 1503079

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1503079-001	DWR2-MW1	03/06/2015 1:08 PM	03/09/2015 1:45 PM
1503079-002	DWR2-MW2	03/06/2015 2:21 PM	03/09/2015 1:45 PM
1503079-003	B-B-BPR-8P	03/06/2015 3:16 PM	03/09/2015 1:45 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: 1503079

Date: 3/16/2015

CLIENT: OnSite Environmental Inc

Project: 03-056

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below LOQ
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate



Analytical Report

WO#: 1503079

Date Reported: 3/16/2015

CLIENT: OnSite Environmental Inc

Project: 03-056

Lab ID: 1503079-001

Client Sample ID: DWR2-MW1

Collection Date: 3/6/2015 1:08:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21209 Analyst: WC

Flashpoint	>200			°F	1	3/12/2015 3:21:58 PM

Lab ID: 1503079-002

Client Sample ID: DWR2-MW2

Collection Date: 3/6/2015 2:21:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21209 Analyst: WC

Flashpoint	>200			°F	1	3/12/2015 3:21:58 PM

Lab ID: 1503079-003

Client Sample ID: B-B-BPR-8P

Collection Date: 3/6/2015 3:16:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Flashpoint by EPA 1010/ASTM D93

Batch ID: R21209 Analyst: WC

Flashpoint	>200			°F	1	3/12/2015 3:21:58 PM



Date: 3/16/2015

Work Order: 1503079
CLIENT: OnSite Environmental Inc
Project: 03-056

QC SUMMARY REPORT
Flashpoint by EPA 1010/ASTM D93

Sample ID	LCS-R21209		SampType:	LCS		Units:	°F		Prep Date:	3/12/2015		RunNo:	21209	
Client ID:	LCSW		Batch ID:	R21209					Analysis Date:	3/12/2015		SeqNo:	403118	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual			
Flashpoint	134		114.0	0	118	65	135							



Sample Log-In Check List

Client Name: **ONSITE**
Logged by: **Erica Silva**

Work Order Number: **1503079**
Date Received: **3/9/2015 1:45:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody seals intact on shipping container/cooler? Yes ☐ No ☒ Not Required ☐
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all coolers received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C ? Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is the headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

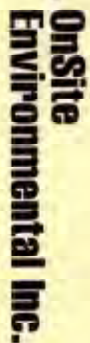
18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C	Condition
Cooler	3.5	Good
Sample	3.4	Good



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

Subcontract Laboratory: Remon

Attention: _____

Address: _____

Phone Number: _____

Date/Time: _____

Turnaround Request:

1 Day 2 Day 3 Day

Standard)

Other: _____

Laboratory Reference #:

03-056

Project Manager: David Baumeister

email: dbaummeister@onsite-env.com

Project Number: 1008-61170

Project Name: _____

Page 1 of 1

8 of 8

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
	DUR2-MW1	3/6/15	1308	W	1	CLOSED W/ FLASHPOINT ASTM D-93
	DUR2-MW2		1421	↓	↓	
	B-B-BPR-8P		1516	↓	↓	↓
	Signature	Company	Date	Time	Comments/Special Instructions	
Relinquished by:		Q8E	3/9/15	1150		
Received by:	Van	SP89	"	"		
Relinquished by:	"		"	1345		
Received by:	Buck for	freeworth	3/9/15	1345		
Relinquished by:						
Received by:						
Relinquished by:						
Received by:						





OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Turnaround Request
(in working days)

Laboratory Number:

03-056

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ (other) _____

Company: **GEOENVINCINERS**
Project Number: **4082-044-01**
Project Name: **SAUNDERS PARK & RIDE (EL III)**
Project Manager: **PAUL CRAIG**
Sampled: **BRIAN ANDERSON**

Lab ID

Sample Identification

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx

Volatiles 8260C

Halogenated Volatiles 8260C

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

PRIORITY POLLUTANT METALS
TOTAL - SEE NOTES

VOCs EPA METHOD 624

SVOCs EPA METHOD 625

PH EPA METHOD
SM 4500-HB

CYANIDE AMENABLE
SM 4500-CN-G

% CLOSED CUP FLASH POINT
ASTM D-93 PMCC

1 DWRE2-MW1
2 DWRE2-MW2
3 B-B-BPR-8P

3/6/15 1308 W
3/6/15 1421 W
3/6/15 1516 W

13 X
13 X
13 X

X

X

X

X

X

X

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

[Signature]

GEOENVINCINERS

3/6/15 1652
3/6/15 1652

ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD
MERCURY, NICKEL, SILVER, ZINC,
BY EPA METHODS 200.7/245.1
X Added 3/10/15 DB (STA)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐

Chromatograms with final report ☐



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 26, 2015

Paul Craig
GeoEngineers, Inc.
8410 154th Avenue NE
Redmond, WA 98052

Re: Analytical Data for Project 4082-044-01
Laboratory Reference No. 1503-061

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on March 9, 2015.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish or checkmark.

David Baumeister
Project Manager

Enclosures

Date of Report: March 26, 2015
Samples Submitted: March 9, 2015
Laboratory Reference: 1503-061
Project: 4082-044-01

Case Narrative

Samples were collected on March 7, 2015 and received by the laboratory on March 9, 2015. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
EL111-DP11-2-3	03-061-01	Soil	3-7-15	3-9-15	
EL111-DP11-12-13	03-061-03	Soil	3-7-15	3-9-15	
EL111-DP11-22-23	03-061-04	Soil	3-7-15	3-9-15	
EL111-DP11-23-24	03-061-05	Soil	3-7-15	3-9-15	
EL111-DP6-2-3	03-061-06	Soil	3-7-15	3-9-15	
EL111-DP6-12-13	03-061-08	Soil	3-7-15	3-9-15	
EL111-DP7-2-3	03-061-09	Soil	3-7-15	3-9-15	
EL111-DP7-7-8	03-061-10	Soil	3-7-15	3-9-15	
EL111-DP8-2-3	03-061-11	Soil	3-7-15	3-9-15	
EL111-DP8-4.5-5.5	03-061-12	Soil	3-7-15	3-9-15	
EL111-DP10-2-3	03-061-13	Soil	3-7-15	3-9-15	
EL111-DP10-7-8	03-061-14	Soil	3-7-15	3-9-15	
EL111-DP10-14-15	03-061-15	Soil	3-7-15	3-9-15	
EL111-DP9-2-3	03-061-16	Soil	3-7-15	3-9-15	
EL111-DP9-8-9	03-061-17	Soil	3-7-15	3-9-15	
EL111-DP12-2-3	03-061-18	Soil	3-7-15	3-9-15	
EL111-DP12-7-8	03-061-19	Soil	3-7-15	3-9-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP11-2-3					
Laboratory ID:	03-061-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	56	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	93	50-150				

Client ID:	EL111-DP11-12-13					
Laboratory ID:	03-061-03					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	55	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	96	50-150				

Client ID:	EL111-DP11-22-23					
Laboratory ID:	03-061-04					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	57	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	94	50-150				

Client ID:	EL111-DP6-2-3					
Laboratory ID:	03-061-06					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	100	50-150				

Client ID:	EL111-DP6-12-13					
Laboratory ID:	03-061-08					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	56	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	96	50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP7-2-3					
Laboratory ID:	03-061-09					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	97	50-150				

Client ID:	EL111-DP7-7-8					
Laboratory ID:	03-061-10					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	57	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	94	50-150				

Client ID:	EL111-DP8-2-3					
Laboratory ID:	03-061-11					
Gasoline Range Organics	ND	21	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	53	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	94	50-150				

Client ID:	EL111-DP8-4.5-5.5					
Laboratory ID:	03-061-12					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	58	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	96	50-150				

Client ID:	EL111-DP10-7-8					
Laboratory ID:	03-061-14					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	56	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	97	50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP10-14-15					
Laboratory ID:	03-061-15					
Gasoline Range Organics	ND	23	NWTPH-HCID	3-11-15	3-11-15	U1
Diesel Range Organics	ND	150	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

Client ID:	EL111-DP9-2-3					
Laboratory ID:	03-061-16					
Gasoline Range Organics	ND	22	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil	Detected	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	100	50-150				

Client ID:	EL111-DP9-8-9					
Laboratory ID:	03-061-17					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	60	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	EL111-DP12-2-3					
Laboratory ID:	03-061-18					
Gasoline Range Organics	ND	21	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	54	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	110	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	103	50-150				

Client ID:	EL111-DP12-7-8					
Laboratory ID:	03-061-19					
Gasoline Range Organics	ND	24	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	59	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	120	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	90	50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP6-2-3					
Laboratory ID:	03-061-06					
Diesel Range Organics	ND	27	NWTPH-Dx	3-20-15	3-20-15	
Lube Oil	270	54	NWTPH-Dx	3-20-15	3-20-15	
Surrogate: o-Terphenyl	Percent Recovery 65	Control Limits 50-150				
Client ID:	EL111-DP6-12-13					
Laboratory ID:	03-061-08					
Diesel Range Organics	ND	140	NWTPH-Dx	3-20-15	3-20-15	U1
Lube Oil	1200	56	NWTPH-Dx	3-20-15	3-20-15	
Surrogate: o-Terphenyl	Percent Recovery 67	Control Limits 50-150				
Client ID:	EL111-DP7-2-3					
Laboratory ID:	03-061-09					
Diesel Range Organics	ND	27	NWTPH-Dx	3-20-15	3-20-15	
Lube Oil Range Organics	ND	54	NWTPH-Dx	3-20-15	3-20-15	
Surrogate: o-Terphenyl	Percent Recovery 69	Control Limits 50-150				
Client ID:	EL111-DP8-2-3					
Laboratory ID:	03-061-11					
Diesel Range Organics	ND	27	NWTPH-Dx	3-20-15	3-20-15	
Lube Oil	190	53	NWTPH-Dx	3-20-15	3-20-15	
Surrogate: o-Terphenyl	Percent Recovery 88	Control Limits 50-150				
Client ID:	EL111-DP10-7-8					
Laboratory ID:	03-061-14					
Diesel Range Organics	ND	480	NWTPH-Dx	3-20-15	3-20-15	U1
Lube Oil	2700	56	NWTPH-Dx	3-20-15	3-20-15	
Surrogate: o-Terphenyl	Percent Recovery 69	Control Limits 50-150				
Client ID:	EL111-DP10-14-15					
Laboratory ID:	03-061-15					
Diesel Range Organics	ND	510	NWTPH-Dx	3-20-15	3-23-15	U1
Lube Oil	3200	290	NWTPH-Dx	3-20-15	3-23-15	
Surrogate: o-Terphenyl	Percent Recovery 81	Control Limits 50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP9-2-3					
Laboratory ID:	03-061-16					
Diesel Range Organics	ND	27	NWTPH-Dx	3-20-15	3-20-15	
Lube Oil	130	54	NWTPH-Dx	3-20-15	3-20-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	62	50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP11-2-3				
Laboratory ID:		03-061-01				
Dichlorodifluoromethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0042	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00083	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Acetone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP11-2-3					
Laboratory ID:	03-061-01					
1,1,2-Trichloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00064	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	113	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	107	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP11-12-13				
Laboratory ID:		03-061-03				
Dichlorodifluoromethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0025	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00049	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Acetone	0.033	0.0019	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.0046	0.0019	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.00076	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP11-12-13				
Laboratory ID:		03-061-03				
1,1,2-Trichloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.00076	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0019	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00038	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	112	76-131				
Toluene-d8	106	82-129				
4-Bromofluorobenzene	105	79-126				

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 Samples Submitted: March 9, 2015
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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP11-22-23				
Laboratory ID:		03-061-04				
Dichlorodifluoromethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0041	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00081	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Acetone	0.025	0.0031	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.0037	0.0031	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0012	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	

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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP11-22-23				
Laboratory ID:		03-061-04				
1,1,2-Trichloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00062	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	76-131				
Toluene-d8	106	82-129				
4-Bromofluorobenzene	105	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP6-2-3				
Laboratory ID:		03-061-06				
Dichlorodifluoromethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Acetone	0.014	0.0034	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP6-2-3					
Laboratory ID:	03-061-06					
1,1,2-Trichloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00067	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	113	76-131				
Toluene-d8	108	82-129				
4-Bromofluorobenzene	111	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP6-12-13						
Laboratory ID: 03-061-08						
Dichlorodifluoromethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0041	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00083	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Acetone	0.056	0.0032	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.010	0.0032	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP6-12-13				
Laboratory ID:		03-061-08				
1,1,2-Trichloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	76-131				
Toluene-d8	93	82-129				
4-Bromofluorobenzene	98	79-126				

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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP7-2-3				
Laboratory ID:		03-061-09				
Dichlorodifluoromethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0046	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00092	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Acetone	0.0072	0.0035	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP7-2-3					
Laboratory ID:	03-061-09					
1,1,2-Trichloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00071	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	110	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP7-7-8				
Laboratory ID:		03-061-10				
Dichlorodifluoromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0042	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00084	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Acetone	0.018	0.0032	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP7-7-8					
Laboratory ID:	03-061-10					
1,1,2-Trichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	114	76-131				
Toluene-d8	103	82-129				
4-Bromofluorobenzene	111	79-126				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP8-2-3				
Laboratory ID:		03-061-11				
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0045	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00090	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Acetone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP8-2-3					
Laboratory ID:	03-061-11					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	76-131				
Toluene-d8	101	82-129				
4-Bromofluorobenzene	103	79-126				

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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP8-4.5-5.5				
Laboratory ID:		03-061-12				
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0057	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.0011	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Acetone	0.021	0.0044	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0018	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP8-4.5-5.5				
Laboratory ID:		03-061-12				
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0018	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	102	82-129				
4-Bromofluorobenzene	107	79-126				

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 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP10-7-8				
Laboratory ID:		03-061-14				
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Acetone	0.094	0.0039	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	0.0011	0.00077	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.017	0.0039	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0015	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP10-7-8					
Laboratory ID:	03-061-14					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0015	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	76-131				
Toluene-d8	99	82-129				
4-Bromofluorobenzene	107	79-126				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP10-14-15						
Laboratory ID: 03-061-15						
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0045	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00089	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Acetone	0.083	0.0034	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	0.0010	0.00069	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.014	0.0034	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP10-14-15				
Laboratory ID:		03-061-15				
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	114	76-131				
Toluene-d8	106	82-129				
4-Bromofluorobenzene	110	79-126				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP9-2-3					
Laboratory ID:	03-061-16					
Dichlorodifluoromethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Chloromethane	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Vinyl Chloride	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Bromomethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Chloroethane	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Trichlorofluoromethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloroethene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Acetone	0.029	0.0033	EPA 8260C	3-13-15	3-13-15	
Iodomethane	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Carbon Disulfide	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Methylene Chloride	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
(trans) 1,2-Dichloroethene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Methyl t-Butyl Ether	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Vinyl Acetate	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
2,2-Dichloropropane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
(cis) 1,2-Dichloroethene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
2-Butanone	0.0052	0.0033	EPA 8260C	3-13-15	3-13-15	
Bromochloromethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Chloroform	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1,1-Trichloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Carbon Tetrachloride	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloropropene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Benzene	ND	0.0013	EPA 8260C	3-13-15	3-13-15	
1,2-Dichloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Trichloroethene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2-Dichloropropane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Dibromomethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Bromodichloromethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
(cis) 1,3-Dichloropropene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Methyl Isobutyl Ketone	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Toluene	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
(trans) 1,3-Dichloropropene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP9-2-3					
Laboratory ID:	03-061-16					
1,1,2-Trichloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Tetrachloroethene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,3-Dichloropropane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
2-Hexanone	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Dibromochloromethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2-Dibromoethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Chlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1,1,2-Tetrachloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Ethylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-13-15	3-13-15	
o-Xylene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Styrene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Bromoform	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Isopropylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Bromobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,1,2,2-Tetrachloroethane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2,3-Trichloropropane	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
n-Propylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
2-Chlorotoluene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
4-Chlorotoluene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,3,5-Trimethylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
tert-Butylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2,4-Trimethylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
sec-Butylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,3-Dichlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
p-Isopropyltoluene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,4-Dichlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2-Dichlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
n-Butylbenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
1,2,4-Trichlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Hexachlorobutadiene	ND	0.0033	EPA 8260C	3-13-15	3-13-15	
Naphthalene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
1,2,3-Trichlorobenzene	ND	0.00066	EPA 8260C	3-13-15	3-13-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	113	76-131				
Toluene-d8	111	82-129				
4-Bromofluorobenzene	110	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP9-8-9				
Laboratory ID:		03-061-17				
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0045	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00090	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Acetone	0.057	0.0034	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.0046	0.0034	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP9-8-9					
Laboratory ID:	03-061-17					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0014	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	102	82-129				
4-Bromofluorobenzene	107	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP12-2-3						
Laboratory ID: 03-061-18						
Dichlorodifluoromethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0038	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00076	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Acetone	0.030	0.0029	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
2-Butanone	0.0043	0.0029	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0012	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	

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 Samples Submitted: March 9, 2015
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP12-2-3					
Laboratory ID:	03-061-18					
1,1,2-Trichloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0012	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00059	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	76-131				
Toluene-d8	105	82-129				
4-Bromofluorobenzene	107	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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 Project: 4082-044-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP12-7-8				
Laboratory ID:		03-061-19				
Dichlorodifluoromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0042	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.00085	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Acetone	0.024	0.0033	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	

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 Project: 4082-044-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP12-7-8					
Laboratory ID:	03-061-19					
1,1,2-Trichloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0033	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.00065	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	76-131				
Toluene-d8	101	82-129				
4-Bromofluorobenzene	102	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP11-2-3						
Laboratory ID: 03-061-01						
Naphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	67	32 - 114				
Pyrene-d10	66	33 - 121				
Terphenyl-d14	89	31 - 116				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP11-12-13						
Laboratory ID: 03-061-03						
Naphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	68	32 - 114				
Pyrene-d10	67	33 - 121				
Terphenyl-d14	87	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP11-22-23						
Laboratory ID: 03-061-04						
Naphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	0.019	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	0.011	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	0.019	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	0.022	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	74	33 - 121				
Terphenyl-d14	90	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP6-2-3						
Laboratory ID: 03-061-06						
Naphthalene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	68	32 - 114				
Pyrene-d10	66	33 - 121				
Terphenyl-d14	84	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP6-12-13						
Laboratory ID: 03-061-08						
Naphthalene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	0.0090	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	0.028	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	0.025	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	0.028	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	0.031	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	0.012	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	0.0079	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	0.0088	0.0075	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	63	32 - 114				
Pyrene-d10	68	33 - 121				
Terphenyl-d14	79	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP7-2-3						
Laboratory ID: 03-061-09						
Naphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	78	32 - 114				
Pyrene-d10	77	33 - 121				
Terphenyl-d14	98	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP7-7-8				
Laboratory ID:		03-061-10				
Naphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	0.012	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	69	33 - 121				
Terphenyl-d14	88	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	EL111-DP8-2-3					
Laboratory ID:	03-061-11					
Naphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	0.0076	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	0.022	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	0.0096	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	0.0096	0.0071	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	71	33 - 121				
Terphenyl-d14	94	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP8-4.5-5.5						
Laboratory ID: 03-061-12						
Naphthalene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[j,k]fluoranthene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	70	32 - 114				
Pyrene-d10	67	33 - 121				
Terphenyl-d14	89	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP10-7-8						
Laboratory ID: 03-061-14						
Naphthalene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
2-Methylnaphthalene	0.025	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
1-Methylnaphthalene	0.021	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthylene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthene	0.0076	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Fluorene	0.011	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Phenanthrene	0.10	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Anthracene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Fluoranthene	0.026	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Pyrene	0.072	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]anthracene	0.014	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Chrysene	0.070	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[b]fluoranthene	0.023	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[j,k]fluoranthene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]pyrene	0.012	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[g,h,i]perylene	0.019	0.0075	EPA 8270D/SIM	3-16-15	3-19-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	59	32 - 114				
Pyrene-d10	70	33 - 121				
Terphenyl-d14	78	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP10-14-15						
Laboratory ID: 03-061-15						
Naphthalene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
2-Methylnaphthalene	0.026	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
1-Methylnaphthalene	0.021	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthene	0.0090	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Fluorene	0.012	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Phenanthrene	0.094	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Fluoranthene	0.025	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Pyrene	0.068	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]anthracene	0.015	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Chrysene	0.068	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[b]fluoranthene	0.021	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[j,k]fluoranthene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]pyrene	0.013	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	0.0084	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[g,h,i]perylene	0.016	0.0076	EPA 8270D/SIM	3-16-15	3-19-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	69	32 - 114				
Pyrene-d10	78	33 - 121				
Terphenyl-d14	96	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP9-2-3						
Laboratory ID: 03-061-16						
Naphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	65	32 - 114				
Pyrene-d10	68	33 - 121				
Terphenyl-d14	92	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		EL111-DP9-8-9				
Laboratory ID:		03-061-17				
Naphthalene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo(j,k)fluoranthene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	3-16-15	3-19-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	72	32 - 114				
Pyrene-d10	73	33 - 121				
Terphenyl-d14	92	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP12-2-3						
Laboratory ID: 03-061-18						
Naphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Fluorene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Phenanthrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Fluoranthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Pyrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Chrysene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[b]fluoranthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo(j,k)fluoranthene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]pyrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[g,h,i]perylene	ND	0.0071	EPA 8270D/SIM	3-16-15	3-19-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	73	32 - 114				
Pyrene-d10	78	33 - 121				
Terphenyl-d14	100	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP12-7-8						
Laboratory ID: 03-061-19						
Naphthalene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
2-Methylnaphthalene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
1-Methylnaphthalene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthylene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Acenaphthene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Fluorene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Phenanthrene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Anthracene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Fluoranthene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Pyrene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Chrysene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270D/SIM	3-16-15	3-19-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	70	33 - 121				
Terphenyl-d14	95	31 - 116				

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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP11-23-24						
Laboratory ID: 03-061-05						
Naphthalene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Fluorene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Phenanthrene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Anthracene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Fluoranthene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Pyrene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]anthracene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Chrysene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[b]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[j,k]fluoranthene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]pyrene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[g,h,i]perylene	ND	0.0080	EPA 8270D/SIM	3-20-15	3-25-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	63	32 - 114				
Pyrene-d10	70	33 - 121				
Terphenyl-d14	60	31 - 116				

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: EL111-DP10-2-3						
Laboratory ID: 03-061-13						
Naphthalene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Fluorene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Anthracene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Pyrene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Chrysene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	3-20-15	3-25-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	74	32 - 114				
Pyrene-d10	81	33 - 121				
Terphenyl-d14	73	31 - 116				

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-01					
Client ID:	EL111-DP11-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	44	2.8	6010C	3-12-15	3-13-15	
Cadmium	ND	0.56	6010C	3-12-15	3-13-15	
Chromium	44	0.56	6010C	3-12-15	3-13-15	
Lead	ND	5.6	6010C	3-12-15	3-13-15	
Mercury	ND	0.28	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-03					
Client ID:	EL111-DP11-12-13					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	50	2.8	6010C	3-12-15	3-13-15	
Cadmium	ND	0.55	6010C	3-12-15	3-13-15	
Chromium	36	0.55	6010C	3-12-15	3-13-15	
Lead	ND	5.5	6010C	3-12-15	3-13-15	
Mercury	ND	0.28	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-04					
Client ID:	EL111-DP11-22-23					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	54	2.8	6010C	3-12-15	3-13-15	
Cadmium	ND	0.57	6010C	3-12-15	3-13-15	
Chromium	50	0.57	6010C	3-12-15	3-13-15	
Lead	18	5.7	6010C	3-12-15	3-13-15	
Mercury	ND	0.28	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-06					
Client ID:	EL111-DP6-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	41	2.7	6010C	3-12-15	3-13-15	
Cadmium	ND	0.54	6010C	3-12-15	3-13-15	
Chromium	31	0.54	6010C	3-12-15	3-13-15	
Lead	ND	5.4	6010C	3-12-15	3-13-15	
Mercury	ND	0.27	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-08					
Client ID:	EL111-DP6-12-13					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	57	2.8	6010C	3-12-15	3-13-15	
Cadmium	ND	0.56	6010C	3-12-15	3-13-15	
Chromium	63	0.56	6010C	3-12-15	3-13-15	
Lead	ND	5.6	6010C	3-12-15	3-13-15	
Mercury	ND	0.28	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-09					
Client ID:	EL111-DP7-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	34	2.7	6010C	3-12-15	3-13-15	
Cadmium	ND	0.54	6010C	3-12-15	3-13-15	
Chromium	25	0.54	6010C	3-12-15	3-13-15	
Lead	ND	5.4	6010C	3-12-15	3-13-15	
Mercury	ND	0.27	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-10					
Client ID:	EL111-DP7-7-8					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	39	2.9	6010C	3-12-15	3-13-15	
Cadmium	ND	0.57	6010C	3-12-15	3-13-15	
Chromium	23	0.57	6010C	3-12-15	3-13-15	
Lead	ND	5.7	6010C	3-12-15	3-13-15	
Mercury	ND	0.29	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-11					
Client ID:	EL111-DP8-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	63	2.7	6010C	3-12-15	3-13-15	
Cadmium	ND	0.53	6010C	3-12-15	3-13-15	
Chromium	45	0.53	6010C	3-12-15	3-13-15	
Lead	17	5.3	6010C	3-12-15	3-13-15	
Mercury	ND	0.27	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-12					
Client ID:	EL111-DP8-4.5-5.5					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	47	2.9	6010C	3-12-15	3-13-15	
Cadmium	ND	0.57	6010C	3-12-15	3-13-15	
Chromium	34	0.57	6010C	3-12-15	3-13-15	
Lead	ND	5.7	6010C	3-12-15	3-13-15	
Mercury	ND	0.29	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-14					
Client ID:	EL111-DP10-7-8					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	46	2.8	6010C	3-12-15	3-13-15	
Cadmium	ND	0.56	6010C	3-12-15	3-13-15	
Chromium	30	0.56	6010C	3-12-15	3-13-15	
Lead	ND	5.6	6010C	3-12-15	3-13-15	
Mercury	ND	0.28	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-15					
Client ID:	EL111-DP10-14-15					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	54	2.9	6010C	3-12-15	3-13-15	
Cadmium	ND	0.57	6010C	3-12-15	3-13-15	
Chromium	38	0.57	6010C	3-12-15	3-13-15	
Lead	16	5.7	6010C	3-12-15	3-13-15	
Mercury	ND	0.29	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Lab ID:	03-061-16					
Client ID:	EL111-DP9-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	57	2.7	6010C	3-12-15	3-13-15	
Cadmium	ND	0.54	6010C	3-12-15	3-13-15	
Chromium	57	0.54	6010C	3-12-15	3-13-15	
Lead	11	5.4	6010C	3-12-15	3-13-15	
Mercury	ND	0.27	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-17					
Client ID:	EL111-DP9-8-9					
Arsenic	ND	12	6010C	3-12-15	3-13-15	
Barium	71	3.0	6010C	3-12-15	3-13-15	
Cadmium	ND	0.60	6010C	3-12-15	3-13-15	
Chromium	54	0.60	6010C	3-12-15	3-13-15	
Lead	ND	6.0	6010C	3-12-15	3-13-15	
Mercury	ND	0.30	7471B	3-13-15	3-13-15	
Selenium	ND	12	6010C	3-12-15	3-13-15	
Silver	ND	1.2	6010C	3-12-15	3-13-15	

Lab ID:	03-061-18					
Client ID:	EL111-DP12-2-3					
Arsenic	ND	11	6010C	3-12-15	3-13-15	
Barium	48	2.7	6010C	3-12-15	3-13-15	
Cadmium	ND	0.54	6010C	3-12-15	3-13-15	
Chromium	37	0.54	6010C	3-12-15	3-13-15	
Lead	6.2	5.4	6010C	3-12-15	3-13-15	
Mercury	ND	0.27	7471B	3-13-15	3-13-15	
Selenium	ND	11	6010C	3-12-15	3-13-15	
Silver	ND	1.1	6010C	3-12-15	3-13-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-061-19					
Client ID:	EL111-DP12-7-8					
Arsenic	ND	12	6010C	3-12-15	3-13-15	
Barium	54	3.0	6010C	3-12-15	3-13-15	
Cadmium	ND	0.59	6010C	3-12-15	3-13-15	
Chromium	43	0.59	6010C	3-12-15	3-13-15	
Lead	8.2	5.9	6010C	3-12-15	3-13-15	
Mercury	ND	0.30	7471B	3-13-15	3-13-15	
Selenium	ND	12	6010C	3-12-15	3-13-15	
Silver	ND	1.2	6010C	3-12-15	3-13-15	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	3-11-15	3-11-15	
Diesel Range Organics	ND	50	NWTPH-HCID	3-11-15	3-11-15	
Lube Oil Range Organics	ND	100	NWTPH-HCID	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	102	50-150				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0320S2					
Diesel Range Organics	ND	25	NWTPH-Dx	3-20-15	3-20-15	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-20-15	3-20-15	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	72	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-061-06									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil	245	90.2	NA	NA		NA	NA	92	NA	
Surrogate:										
o-Terphenyl						65	79	50-150		

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0311S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Chloromethane	ND	0.0065	EPA 8260C	3-11-15	3-11-15	
Vinyl Chloride	ND	0.0013	EPA 8260C	3-11-15	3-11-15	
Bromomethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Chloroethane	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Acetone	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Iodomethane	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Methylene Chloride	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
2-Butanone	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Bromochloromethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Chloroform	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Benzene	ND	0.0020	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Trichloroethene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Dibromomethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Toluene	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	

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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0311S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
2-Hexanone	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Chlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Ethylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
m,p-Xylene	ND	0.0020	EPA 8260C	3-11-15	3-11-15	
o-Xylene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Styrene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Bromoform	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Bromobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-11-15	3-11-15	
Naphthalene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-11-15	3-11-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	113	76-131				
Toluene-d8	107	82-129				
4-Bromofluorobenzene	109	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0313S1						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Chloromethane	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Bromomethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Chloroethane	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Acetone	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Iodomethane	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Carbon Disulfide	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Methylene Chloride	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Vinyl Acetate	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
2-Butanone	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Bromochloromethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Chloroform	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Benzene	ND	0.0020	EPA 8260C	3-13-15	3-13-15	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Trichloroethene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Dibromomethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Toluene	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	

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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0313S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
2-Hexanone	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Chlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Ethylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
m,p-Xylene	ND	0.0020	EPA 8260C	3-13-15	3-13-15	
o-Xylene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Styrene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Bromoform	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Isopropylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Bromobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
n-Propylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
tert-Butylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
sec-Butylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
n-Butylbenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-13-15	3-13-15	
Naphthalene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-13-15	3-13-15	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	111	76-131				
Toluene-d8	107	82-129				
4-Bromofluorobenzene	114	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0311S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0474	0.0483	0.0500	0.0500	95	97	66-129	2	15	
Benzene	0.0461	0.0461	0.0500	0.0500	92	92	71-123	0	15	
Trichloroethene	0.0509	0.0514	0.0500	0.0500	102	103	75-115	1	15	
Toluene	0.0498	0.0484	0.0500	0.0500	100	97	75-120	3	15	
Chlorobenzene	0.0463	0.0457	0.0500	0.0500	93	91	75-121	1	15	
Surrogate:										
Dibromofluoromethane					106	110	76-131			
Toluene-d8					99	98	82-129			
4-Bromofluorobenzene					101	102	79-126			

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB0313S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0504	0.0515	0.0500	0.0500	101	103	66-129	2		15	
Benzene	0.0509	0.0482	0.0500	0.0500	102	96	71-123	5		15	
Trichloroethene	0.0491	0.0475	0.0500	0.0500	98	95	75-115	3		15	
Toluene	0.0508	0.0493	0.0500	0.0500	102	99	75-120	3		15	
Chlorobenzene	0.0490	0.0478	0.0500	0.0500	98	96	75-121	2		15	
Surrogate:											
Dibromofluoromethane					106	101	76-131				
Toluene-d8					104	101	82-129				
4-Bromofluorobenzene					101	100	79-126				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0316S1						
Naphthalene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	3-16-15	3-18-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	85	32 - 114				
Pyrene-d10	86	33 - 121				
Terphenyl-d14	115	31 - 116				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0316S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0597	0.0594	0.0833	0.0833	72	71	63 - 113	1	19	
Acenaphthylene	0.0890	0.0844	0.0833	0.0833	107	101	61 - 125	5	16	
Acenaphthene	0.0737	0.0708	0.0833	0.0833	88	85	66 - 113	4	16	
Fluorene	0.0822	0.0762	0.0833	0.0833	99	91	60 - 117	8	16	
Phenanthrene	0.0759	0.0718	0.0833	0.0833	91	86	63 - 116	6	12	
Anthracene	0.0916	0.0863	0.0833	0.0833	110	104	66 - 141	6	19	
Fluoranthene	0.0772	0.0728	0.0833	0.0833	93	87	60 - 125	6	13	
Pyrene	0.0758	0.0766	0.0833	0.0833	91	92	66 - 126	1	15	
Benzo[a]anthracene	0.0748	0.0697	0.0833	0.0833	90	84	60 - 128	7	15	
Chrysene	0.0770	0.0724	0.0833	0.0833	92	87	60 - 117	6	13	
Benzo[b]fluoranthene	0.0786	0.0738	0.0833	0.0833	94	89	60 - 131	6	16	
Benzo(j,k)fluoranthene	0.0792	0.0726	0.0833	0.0833	95	87	57 - 126	9	20	
Benzo[a]pyrene	0.0801	0.0750	0.0833	0.0833	96	90	62 - 136	7	16	
Indeno(1,2,3-c,d)pyrene	0.0803	0.0753	0.0833	0.0833	96	90	60 - 127	6	19	
Dibenz[a,h]anthracene	0.0834	0.0789	0.0833	0.0833	100	95	62 - 133	6	22	
Benzo[g,h,i]perylene	0.0811	0.0766	0.0833	0.0833	97	92	63 - 129	6	22	
Surrogate:										
2-Fluorobiphenyl					84	82	32 - 114			
Pyrene-d10					85	81	33 - 121			
Terphenyl-d14					114	106	31 - 116			

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0320S1						
Naphthalene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Fluorene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Anthracene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Pyrene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Chrysene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	3-20-15	3-25-15	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorobiphenyl	90	32 - 114				
Pyrene-d10	100	33 - 121				
Terphenyl-d14	84	31 - 116				

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES								
Laboratory ID:	03-061-13							
	MS	MSD	MS	MSD	MS	MSD		
Naphthalene	0.0717	0.0693	0.0833	0.0833	ND	86 83	44 - 107	3 29
Acenaphthylene	0.0710	0.0747	0.0833	0.0833	ND	85 90	44 - 121	5 27
Acenaphthene	0.0709	0.0738	0.0833	0.0833	ND	85 89	47 - 109	4 26
Fluorene	0.0759	0.0754	0.0833	0.0833	ND	91 91	49 - 115	1 28
Phenanthrene	0.0780	0.0771	0.0833	0.0833	ND	94 93	45 - 114	1 26
Anthracene	0.0883	0.0884	0.0833	0.0833	ND	106 106	43 - 140	0 27
Fluoranthene	0.0826	0.0835	0.0833	0.0833	ND	99 100	44 - 126	1 27
Pyrene	0.0801	0.0804	0.0833	0.0833	ND	96 97	43 - 125	0 27
Benzo[a]anthracene	0.0942	0.0949	0.0833	0.0833	ND	113 114	42 - 134	1 27
Chrysene	0.0770	0.0769	0.0833	0.0833	ND	92 92	45 - 114	0 27
Benzo[b]fluoranthene	0.0932	0.0956	0.0833	0.0833	ND	112 115	38 - 131	3 33
Benzo[j,k]fluoranthene	0.0660	0.0637	0.0833	0.0833	ND	79 76	44 - 114	4 34
Benzo[a]pyrene	0.0775	0.0785	0.0833	0.0833	ND	93 94	40 - 136	1 29
Indeno(1,2,3-c,d)pyrene	0.0976	0.0974	0.0833	0.0833	ND	117 117	45 - 126	0 30
Dibenz[a,h]anthracene	0.0690	0.0704	0.0833	0.0833	ND	83 85	46 - 121	2 28
Benzo[g,h,i]perylene	0.0809	0.0821	0.0833	0.0833	ND	97 99	43 - 120	1 31
Surrogate:								
2-Fluorobiphenyl						72 74	32 - 114	
Pyrene-d10						80 80	33 - 121	
Terphenyl-d14						75 73	31 - 116	

Date of Report: March 26, 2015
Samples Submitted: March 9, 2015
Laboratory Reference: 1503-061
Project: 4082-044-01

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 3-12&13-15
Date Analyzed: 3-13-15

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0312SM3&MB0313S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 3-12&13-15

Date Analyzed: 3-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-061-11

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	59.3	61.5	4	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	41.9	44.7	7	0.50	
Lead	15.6	16.3	5	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 3-12&13-15

Date Analyzed: 3-13-15

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-061-11

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	98.5	99	102	102	4	
Barium	100	152	92	151	92	0	
Cadmium	50.0	48.2	96	49.5	99	3	
Chromium	100	130	88	131	89	1	
Lead	250	250	94	255	96	2	
Mercury	0.500	0.490	98	0.493	99	1	
Selenium	100	91.4	91	94.1	94	3	
Silver	25.0	22.1	88	23.0	92	4	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
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% MOISTURE

Date Analyzed: 3-11&20-15

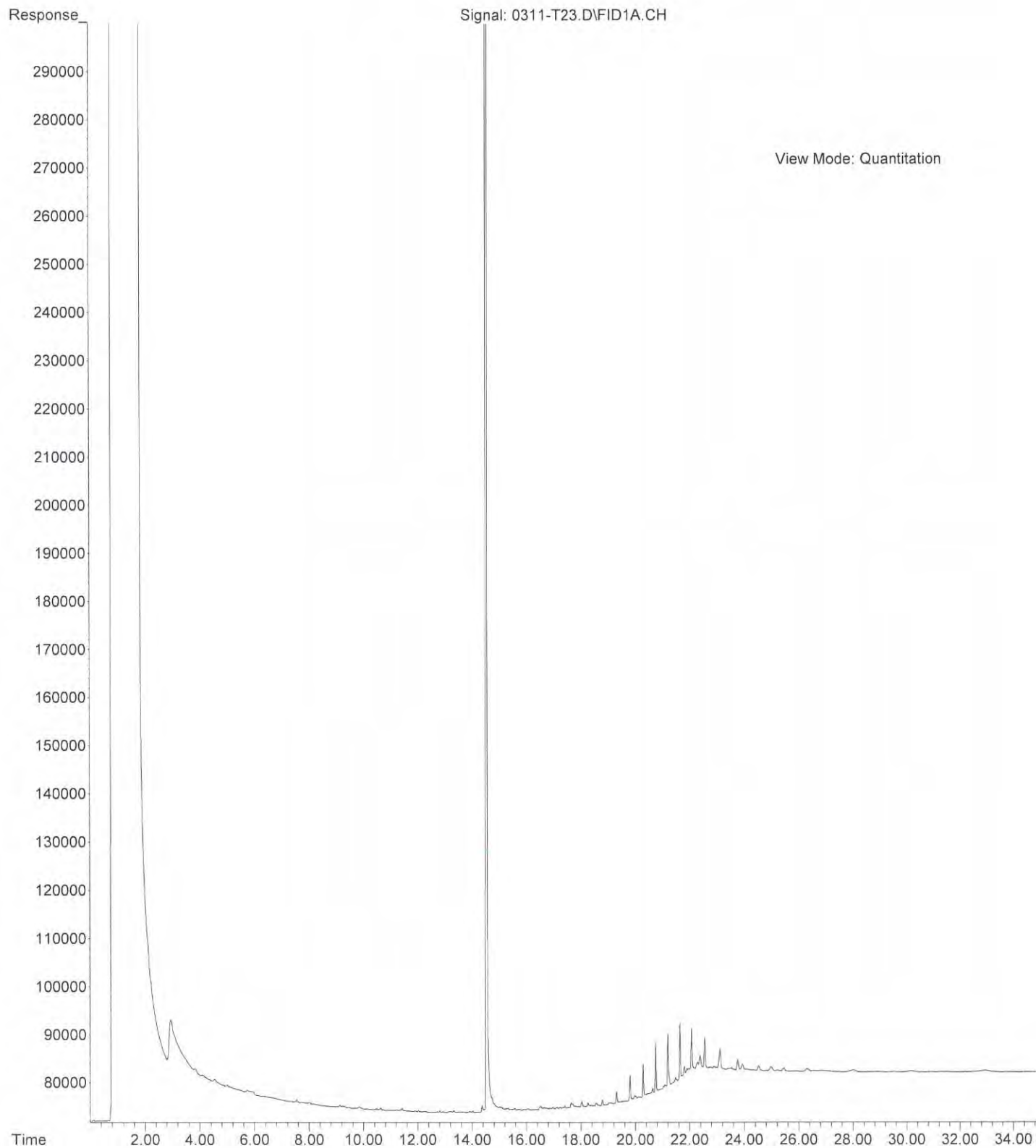
Client ID	Lab ID	% Moisture
EL111-DP11-2-3	03-061-01	10
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EL111-DP11-22-23	03-061-04	12
EL111-DP11-23-24	03-061-05	17
EL111-DP6-2-3	03-061-06	8
EL111-DP6-12-13	03-061-08	11
EL111-DP7-2-3	03-061-09	7
EL111-DP7-7-8	03-061-10	13
EL111-DP8-2-3	03-061-11	6
EL111-DP8-4.5-5.5	03-061-12	13
EL111-DP10-2-3	03-061-13	8
EL111-DP10-7-8	03-061-14	11
EL111-DP10-14-15	03-061-15	13
EL111-DP9-2-3	03-061-16	8
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EL111-DP12-7-8	03-061-19	16



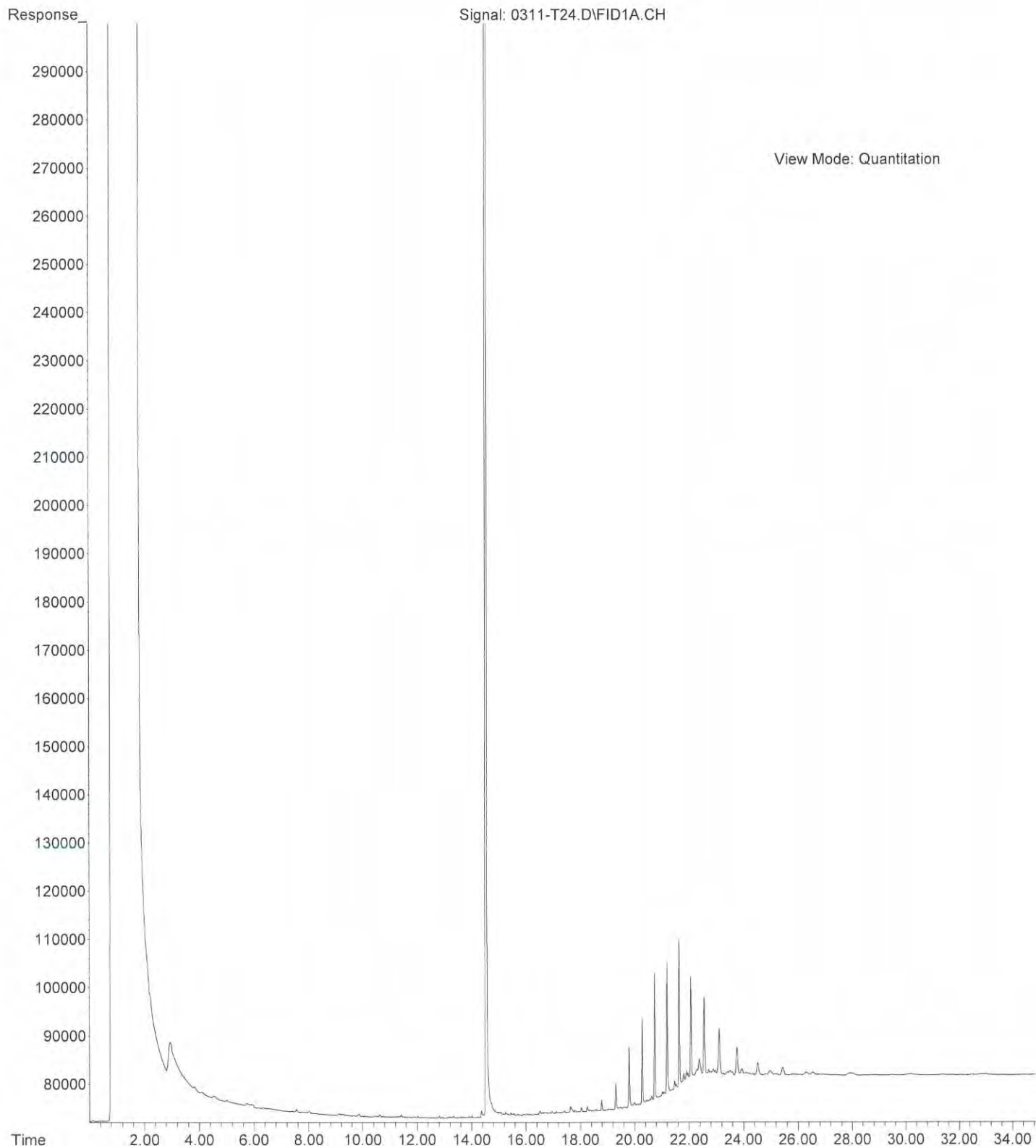
Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

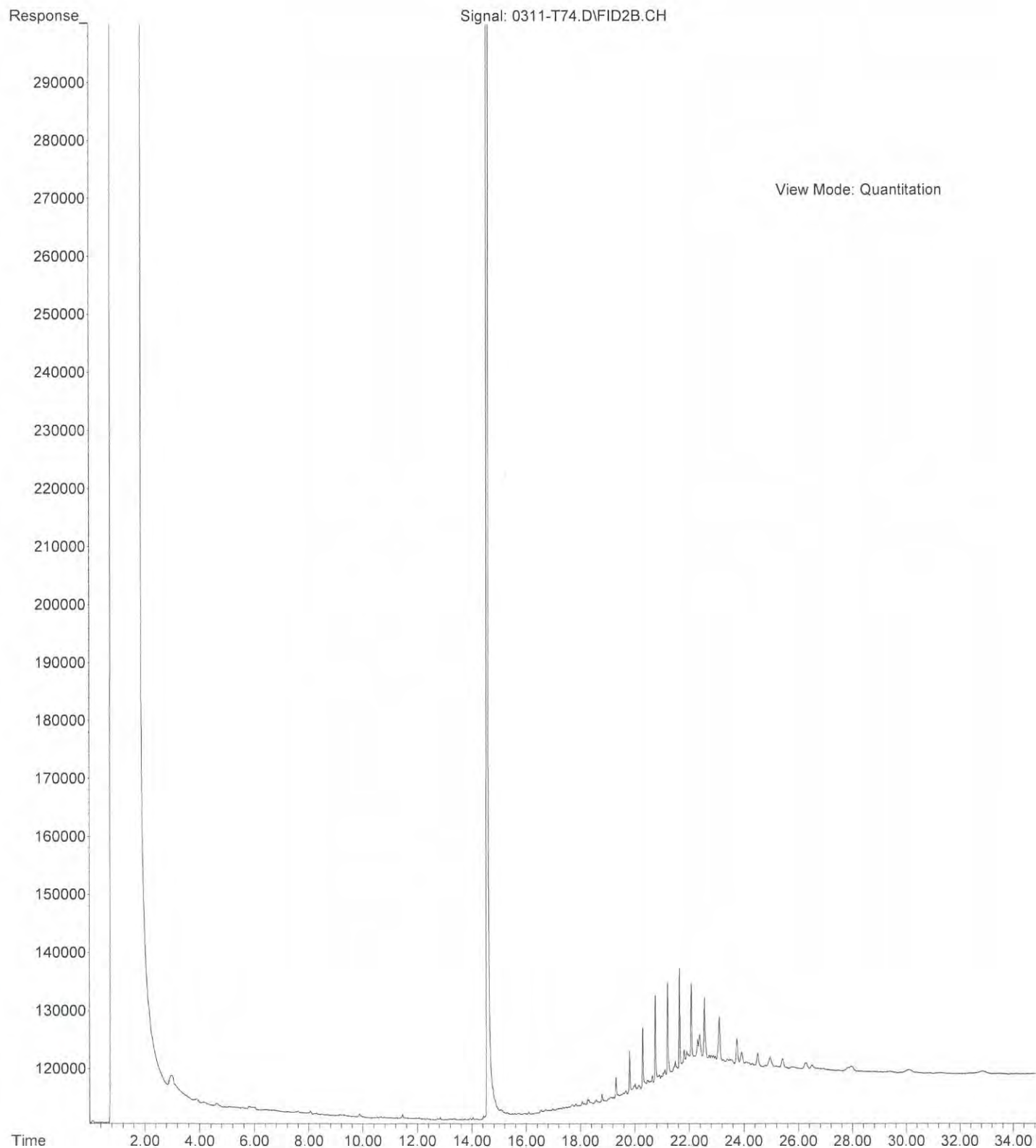
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Instrument : Teri
Sample Name: 03-061-01
Misc Info :
Vial Number: 23



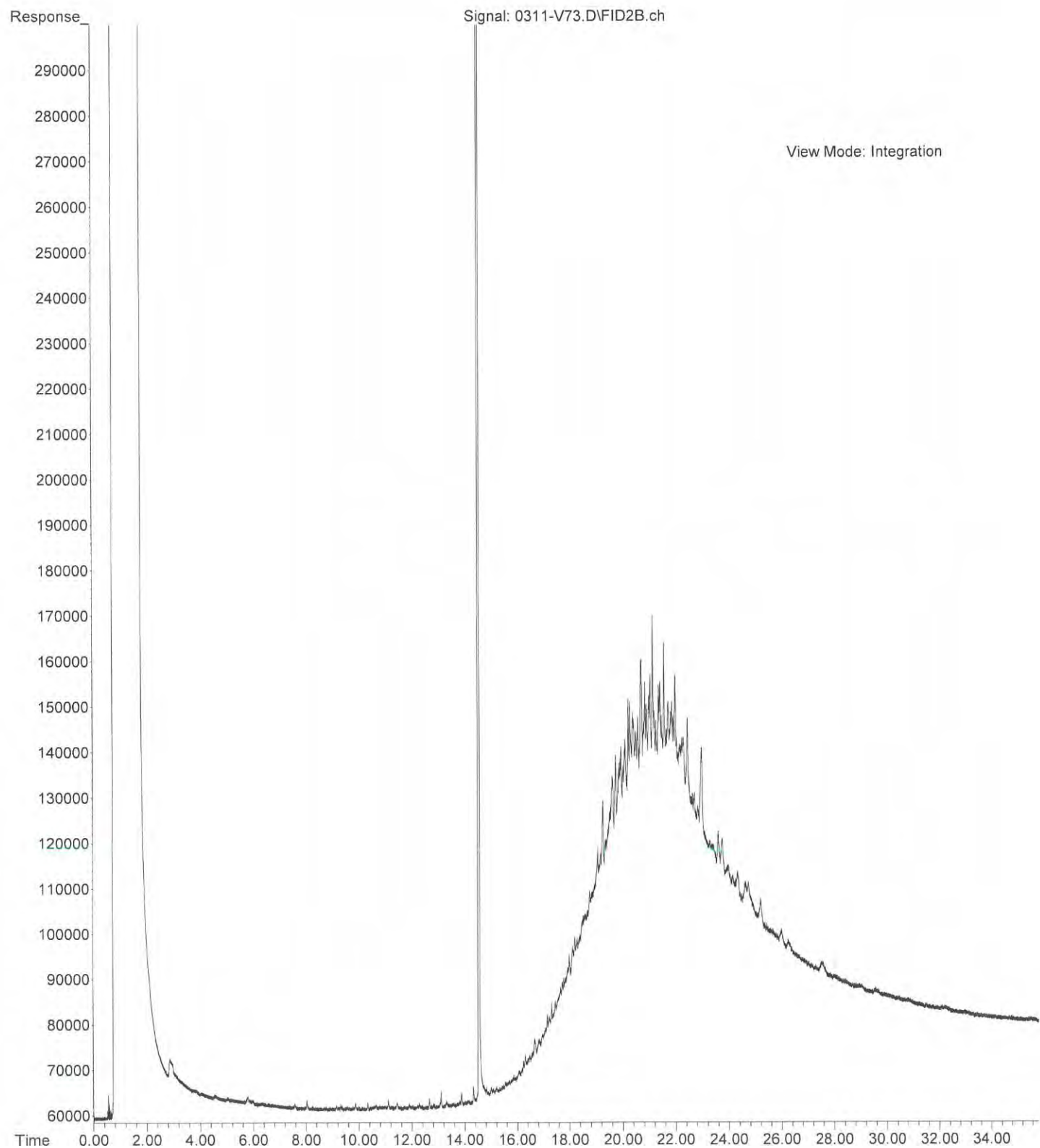
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Instrument : Teri
Sample Name: 03-061-03
Misc Info :
Vial Number: 24



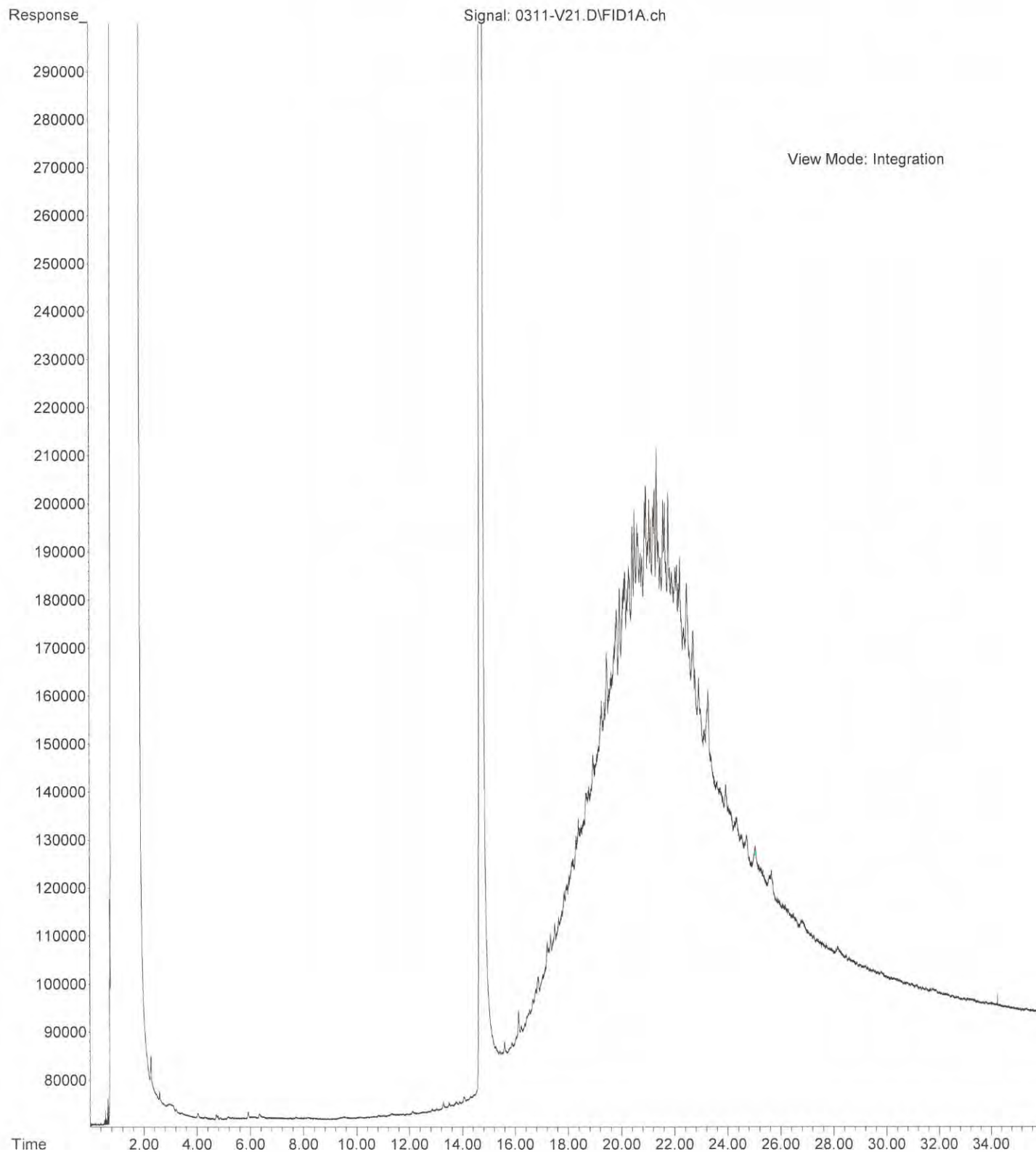
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Instrument : Teri
Sample Name: 03-061-04
Misc Info :
Vial Number: 74



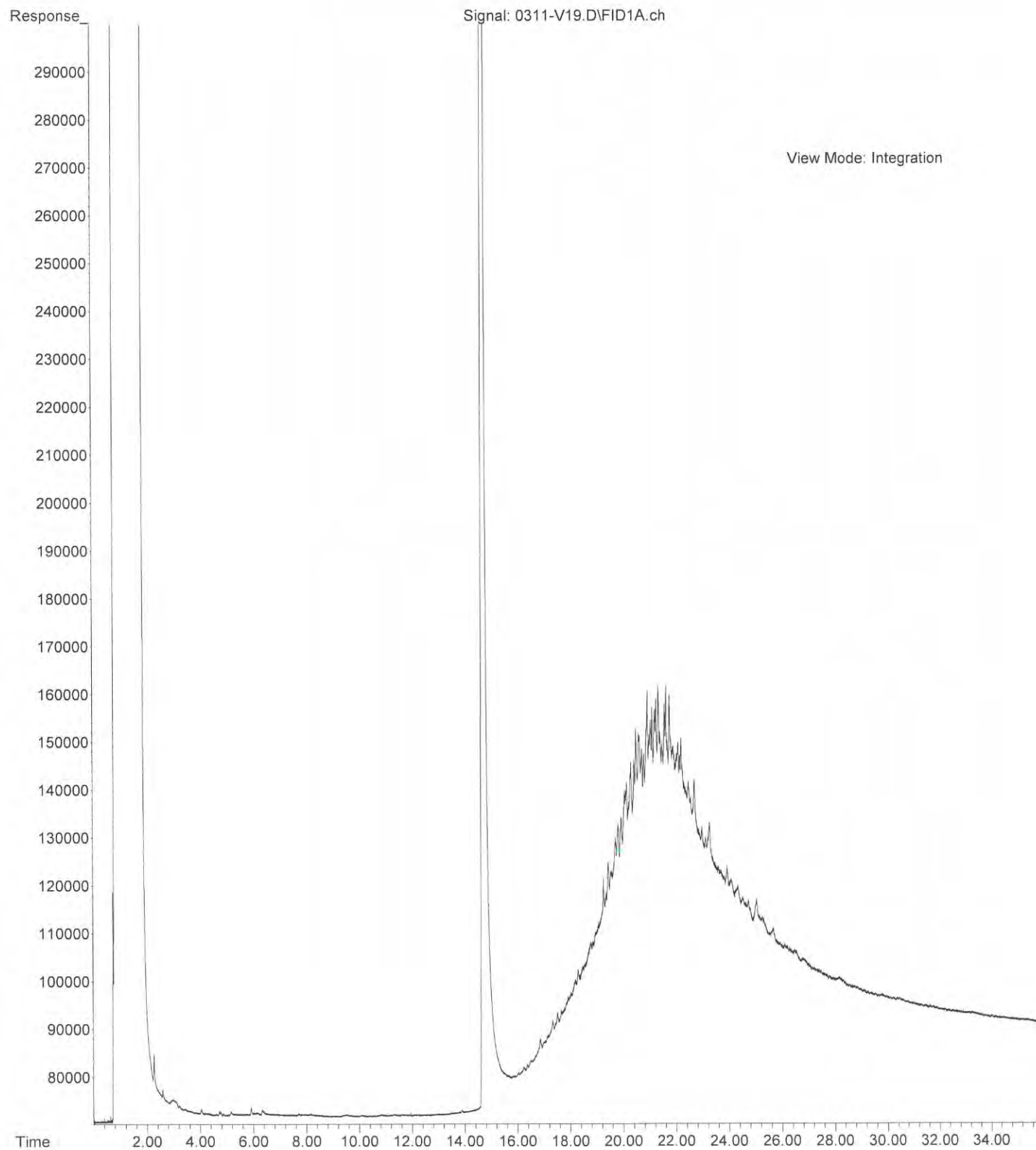
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Instrument : Vigo
Sample Name: 03-061-06
Misc Info :
Vial Number: 73



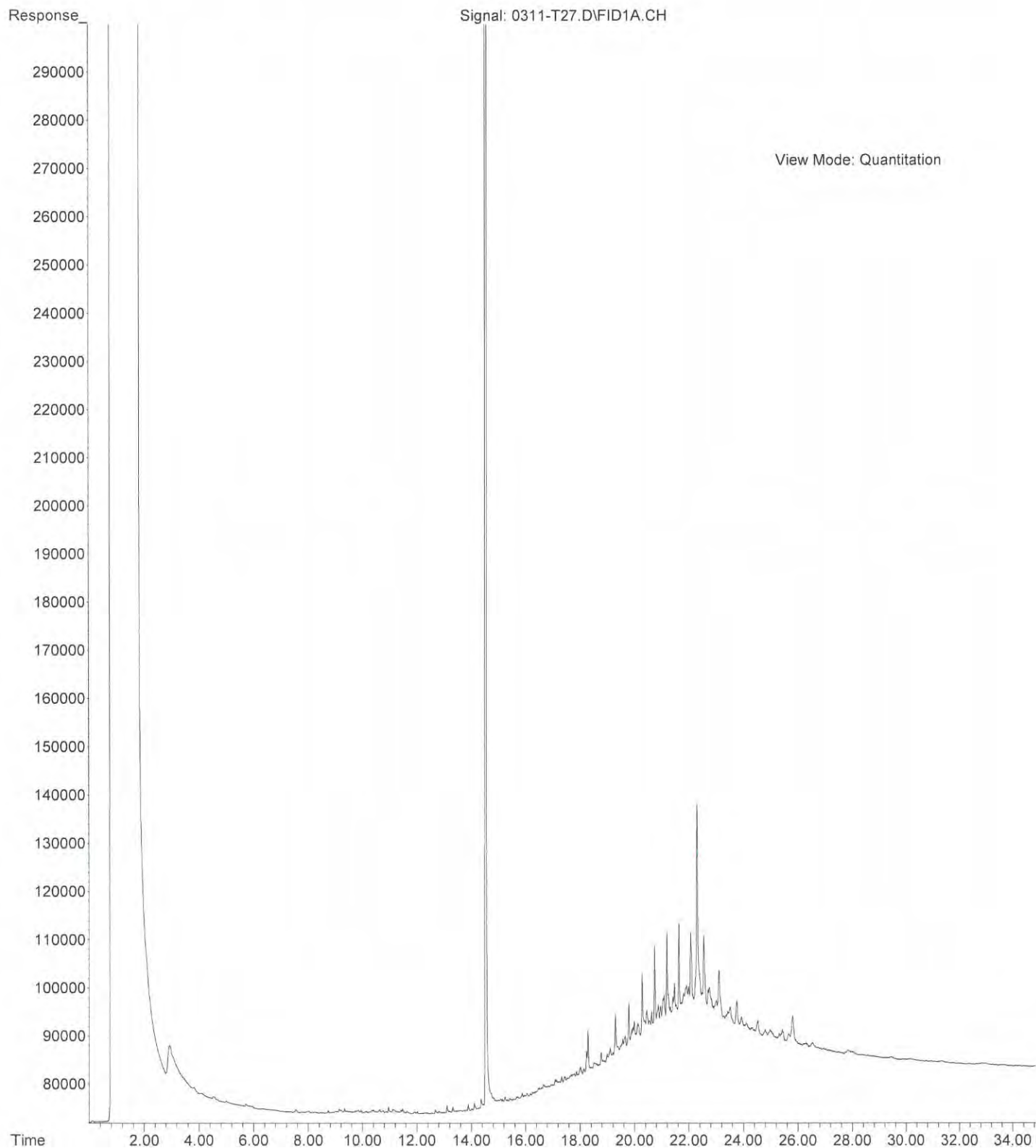
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Instrument : Vigo
Sample Name: 03-061-08
Misc Info :
Vial Number: 21



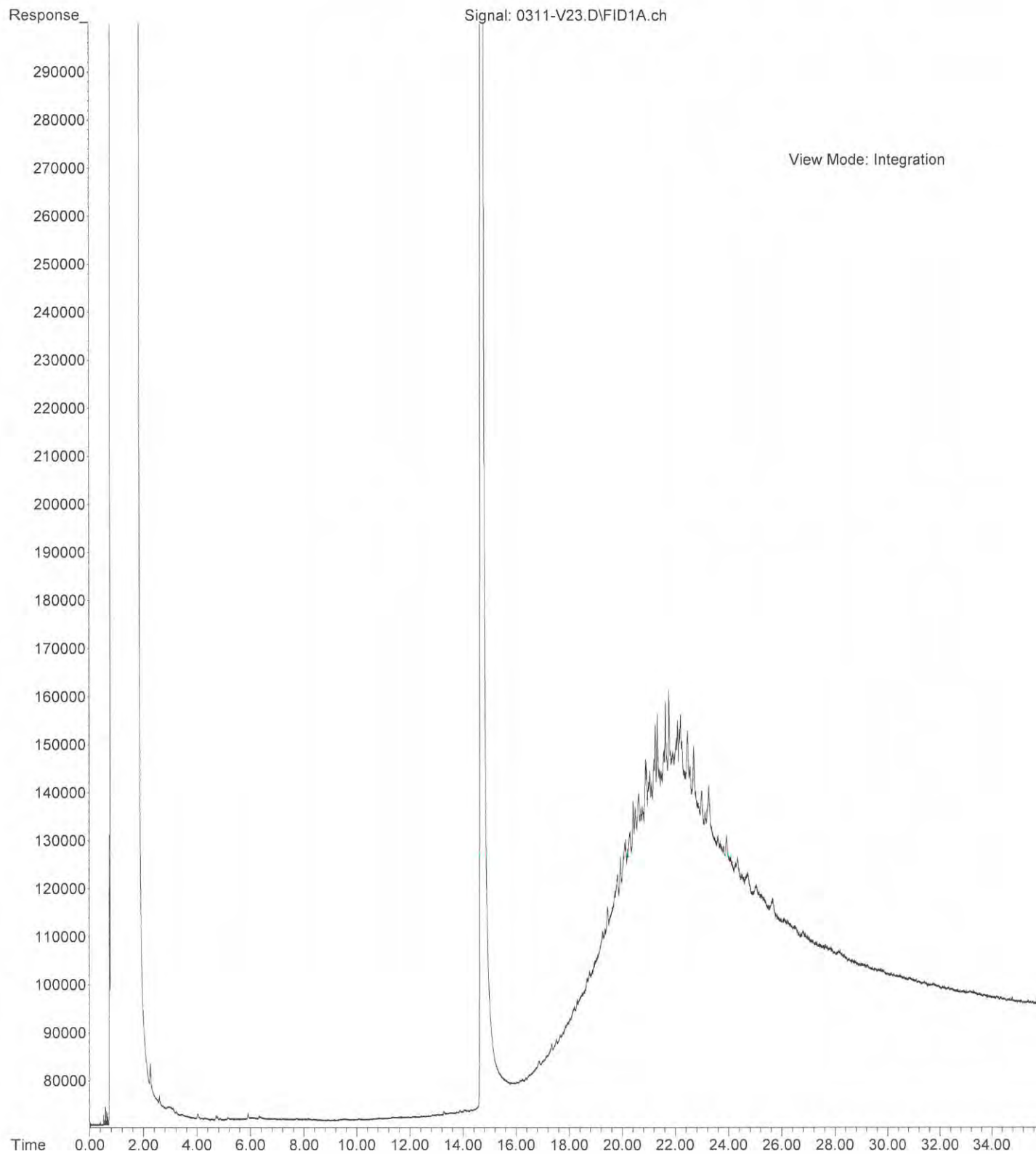
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Operator :
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Instrument : Vigo
Sample Name: 03-061-09
Misc Info :
Vial Number: 19



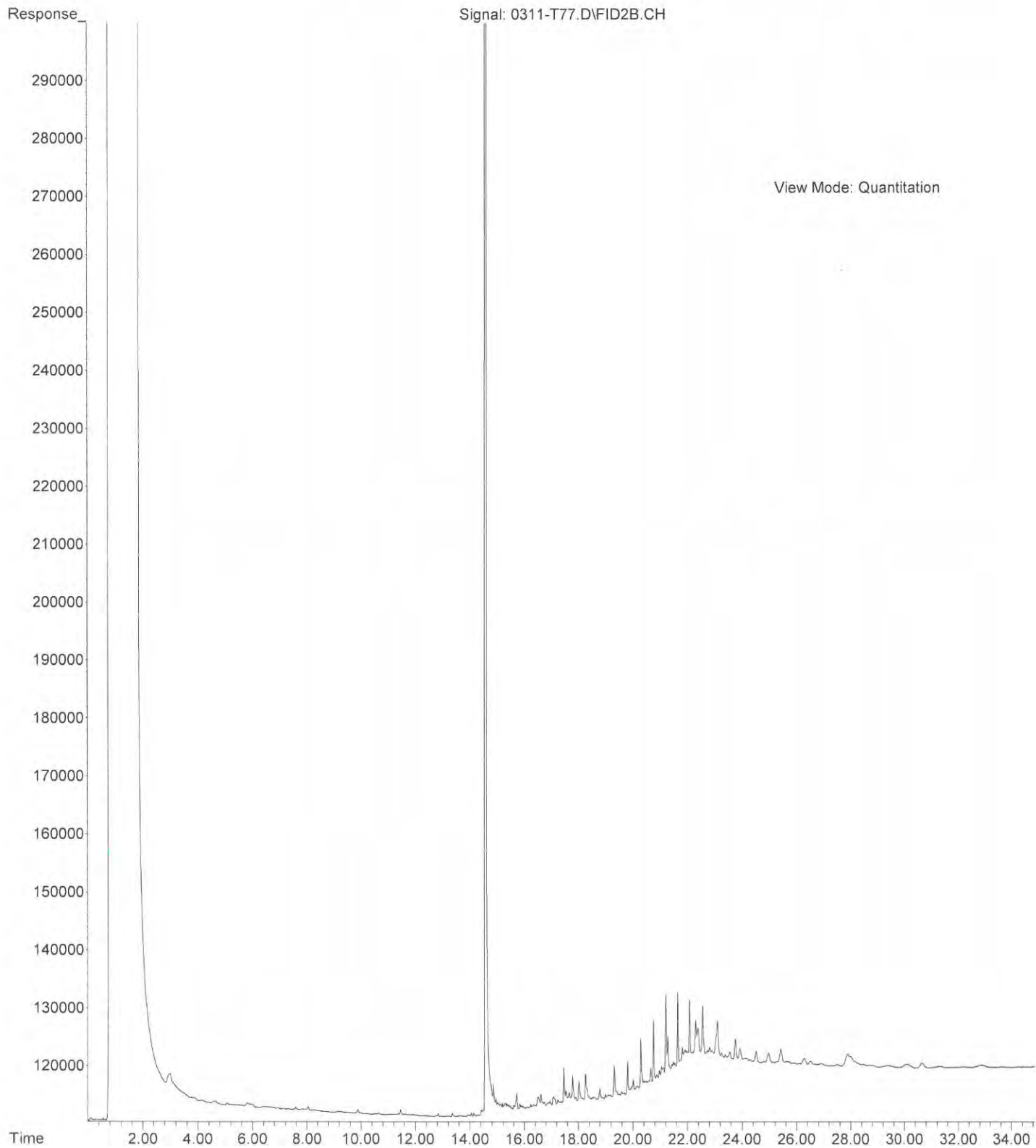
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Instrument : Teri
Sample Name: 03-061-10
Misc Info :
Vial Number: 27



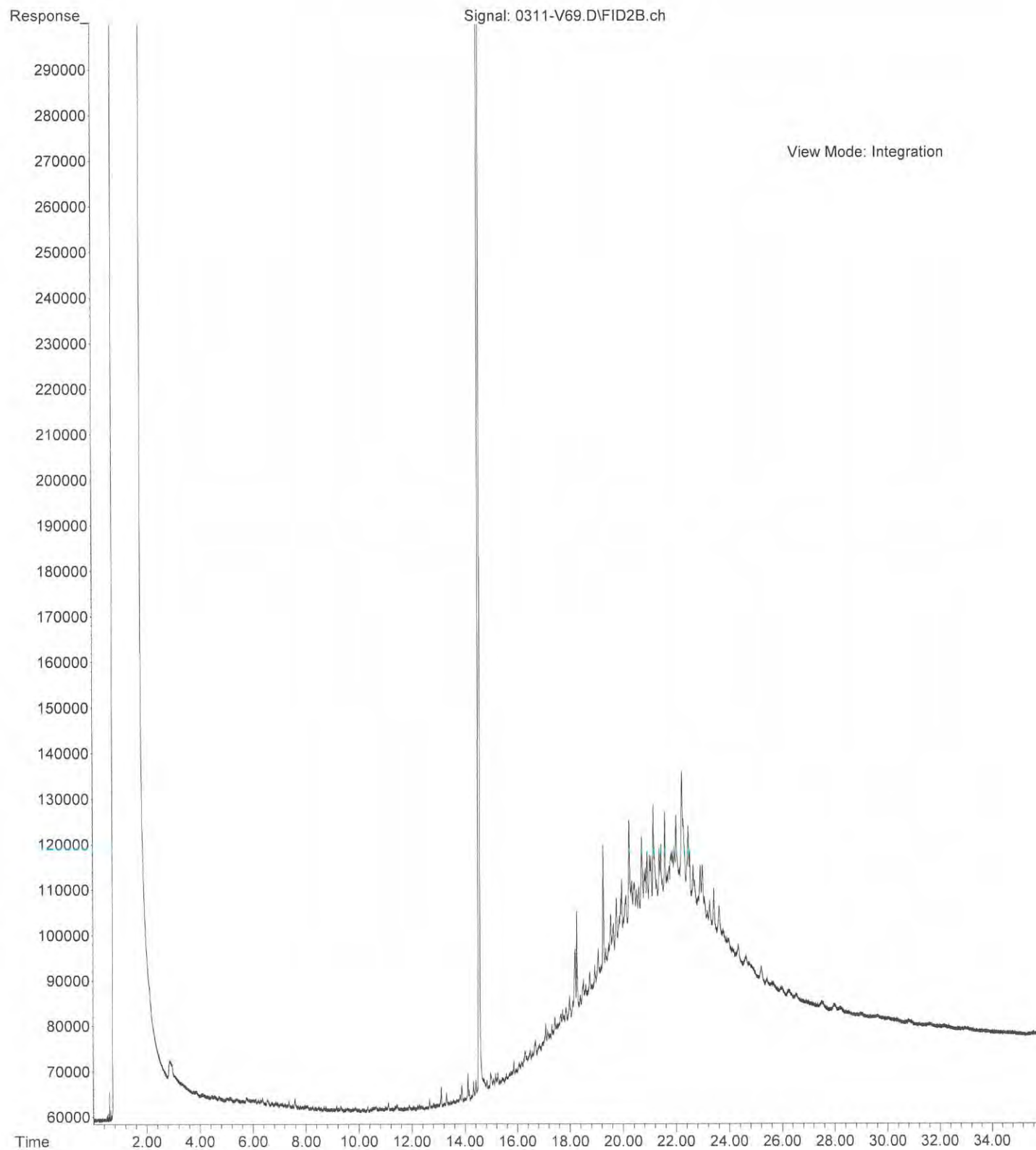
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Sample Name: 03-061-11
Misc Info :
Vial Number: 23



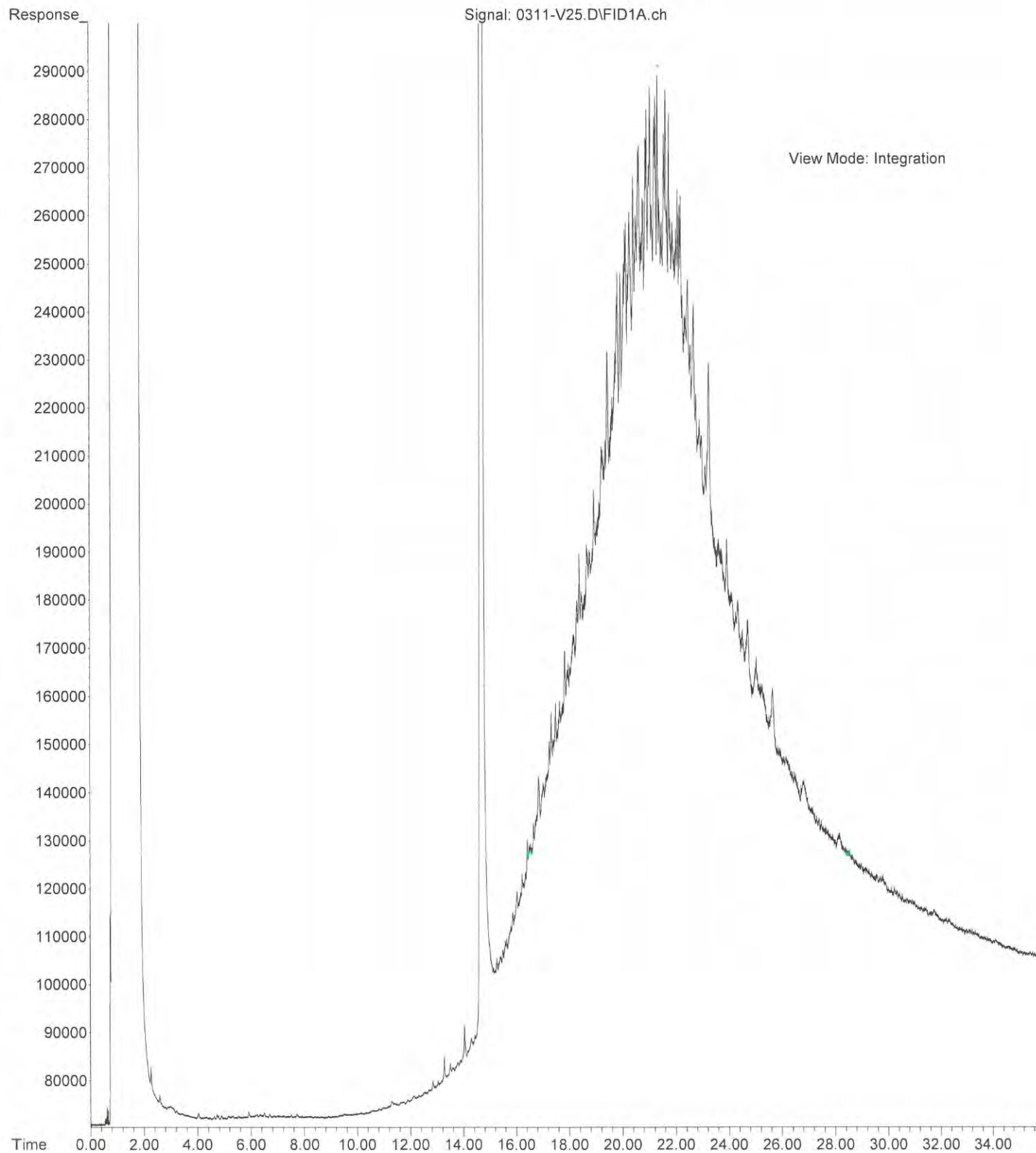
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Instrument : Teri
Sample Name: 03-061-12
Misc Info :
Vial Number: 77



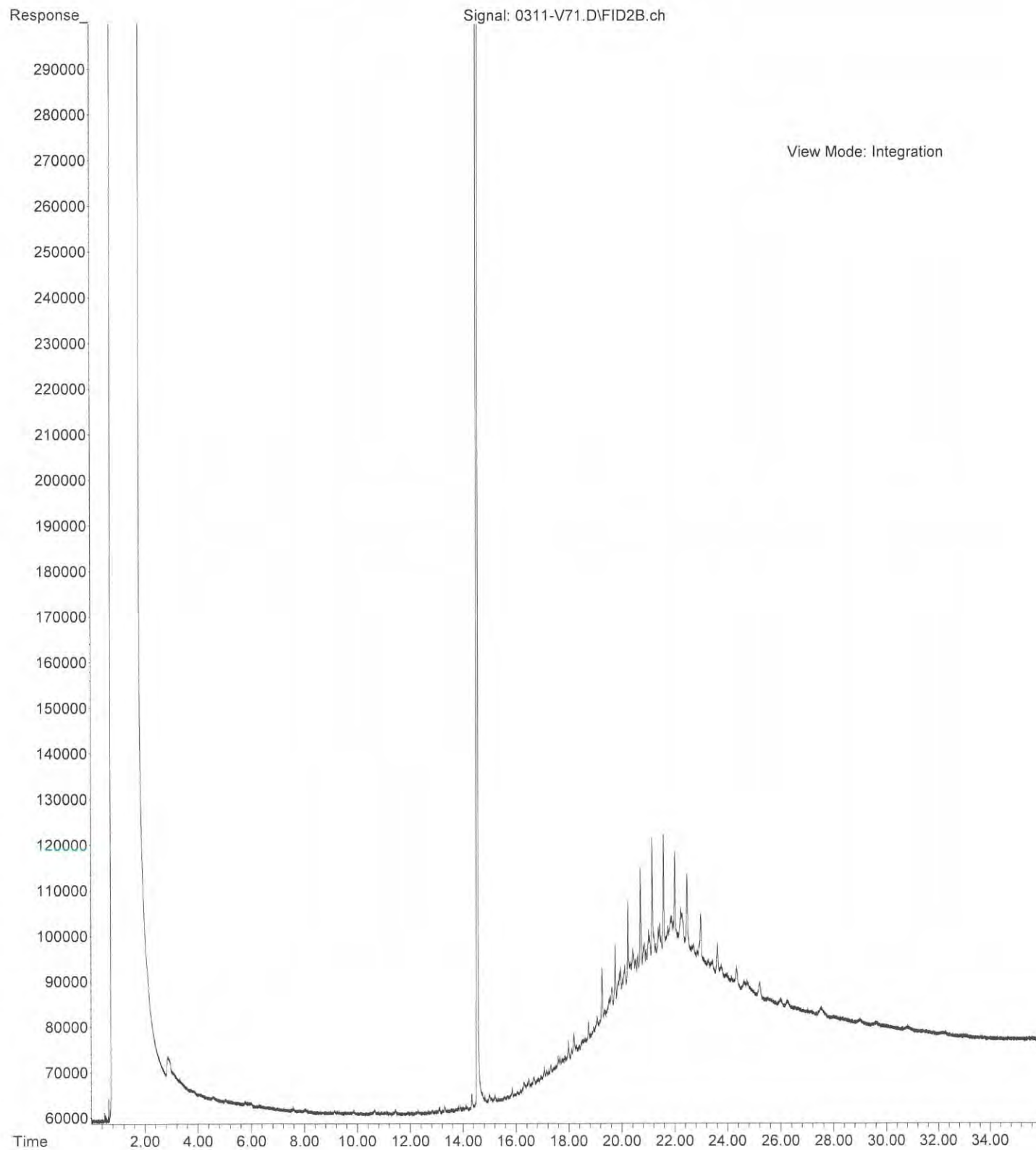
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Operator :
Acquired : 11 Mar 2015 23:56 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-14
Misc Info :
Vial Number: 69



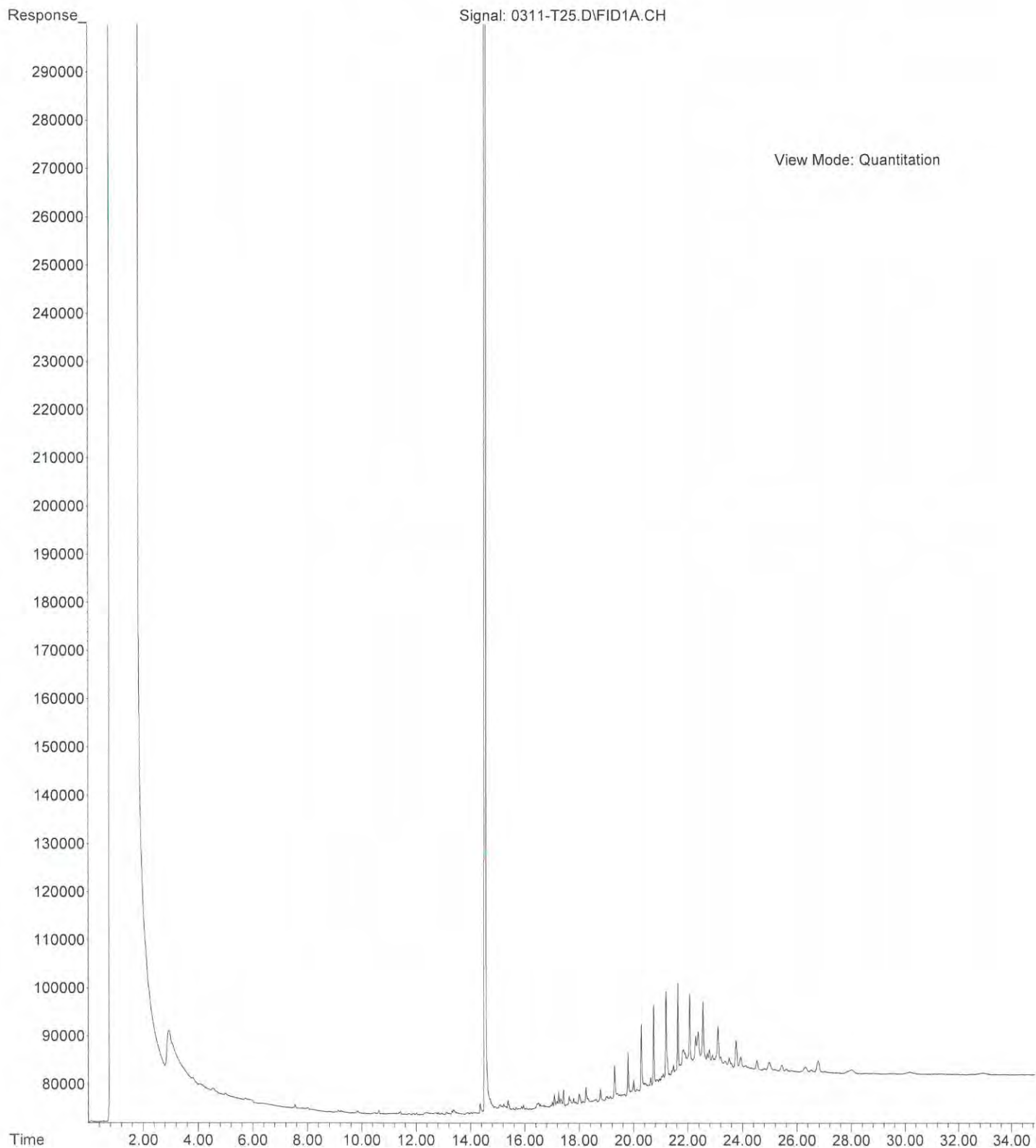
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Instrument : Vigo
Sample Name: 03-061-15
Misc Info :
Vial Number: 25



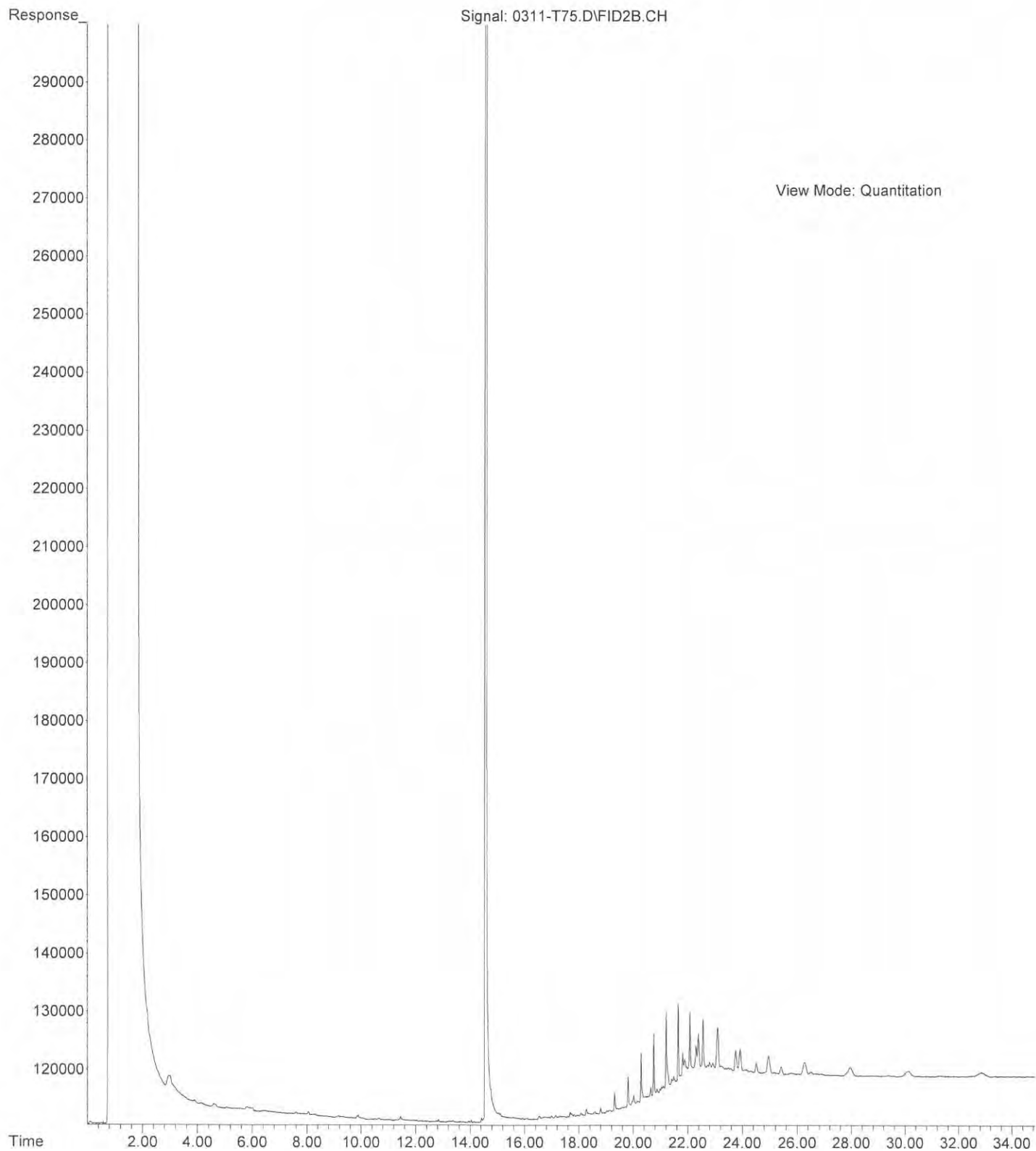
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Acquired : 12 Mar 2015 1:18 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-16
Misc Info :
Vial Number: 71



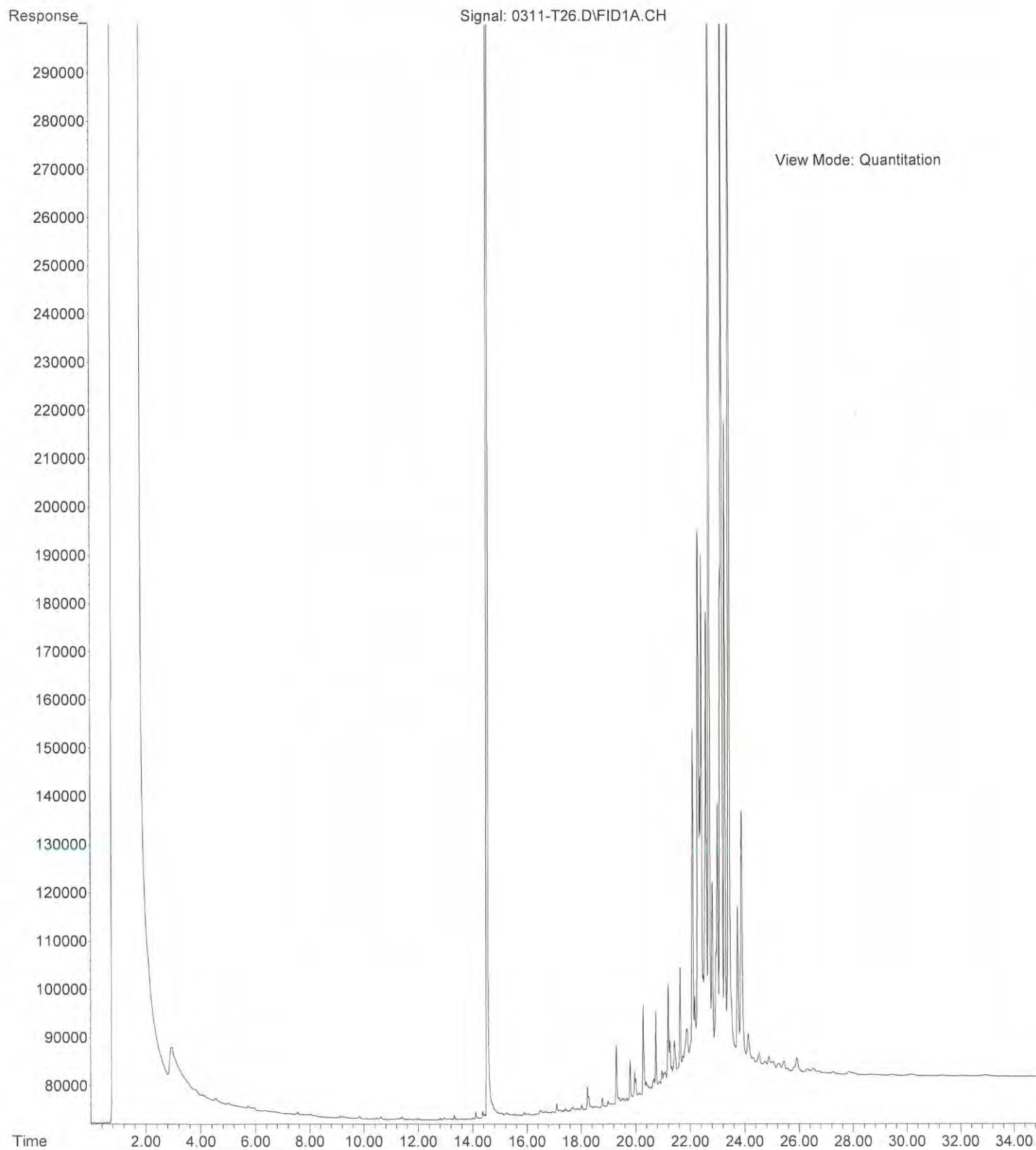
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Acquired : 12 Mar 2015 4:16 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-17
Misc Info :
Vial Number: 25



File :C:\msdchem\1\DATA\T150311.SEC\0311-T75.D
Operator : ZT
Acquired : 12 Mar 2015 4:16 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-18
Misc Info :
Vial Number: 75



File : C:\msdchem\1\DATA\T150311\0311-T26.D
Operator : ZT
Acquired : 12 Mar 2015 4:58 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-19
Misc Info :
Vial Number: 26



APPENDIX D

Report Limitations and Guidelines for Use

APPENDIX D

REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

Environmental Services are Performed for Specific Purposes, Persons and Projects

This report has been prepared for use by Sound Transit. We understand the report will be distributed to design team and contractor. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except Sound Transit should rely on this environmental report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for Sound Transit, Inc. at the Washington State Department of Transportation (WSDOT) Park and Ride site (EL111) along Sound Transit’s E320 contract section for East Link. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

If a lending agency or other parties intend to place legal reliance on the product of our services, we require that those parties indicate in writing their acknowledgement that the scope of services provided, and the general conditions under which the services were rendered including the limitation of professional liability, are understood and accepted by them. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Environmental Regulations are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Subsurface Conditions can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design drawings. Only photographic or electronic reproduction is acceptable, but recognize that separating logs from the report can elevate risk.

Geotechnical, Geologic and Geoenvironmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior

to the export of soil or groundwater from the subject site or reuse of the affected media on site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject site to another location or its reuse on site in instances that we were not aware of or could not control.

Most Environmental Findings are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention, or assessment of the presence of Biological Pollutants in or around any structure. Accordingly, this report includes no interpretations, recommendations, findings, or conclusions for the purpose of detecting, preventing, assessing, or abating Biological Pollutants. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

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**Independent Remedial Action and Drilled Shaft
Observation Report, South Bellevue Station (EL111),
2500 Bellevue Way SE, Bellevue, Washington. Prepared by
INNOVEX Environmental Management, June 18, 2019**



**Independent Remedial Action and
Drilled Shaft Observation Report
South Bellevue Station (EL111)
2500 Bellevue Way SE
Bellevue, Washington**

**Sound Transit Contract RTA/CN 0063-15
E320 South Bellevue**

June 18, 2019

Prepared For:

Sound Transit

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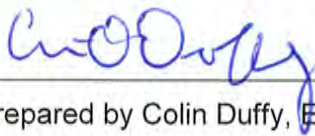
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CERTIFICATION

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal is affixed below.



Prepared by Colin Duffy, Environmental Scientist



Reviewed by Glenn A. Hayman, LHg

 (for Peter Battuello)

Approved by Peter Battuello, LG, LHg

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Appendix C Toxic Equivalent Concentration Calculations
Appendix D Soil Disposal Tickets

ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
CUL	cleanup level
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
INNOVEX	INNOVEX Environmental Management, Inc.
MTCA	Model Toxics Control Act Cleanup Regulation
OnSite	OnSite Environmental Inc.
OSG	O'Neill Service Group
PAHs	polycyclic aromatic hydrocarbons
SPJV	Shimmick-Parsons Joint Venture
TEC	toxic equivalent concentration
TPH-d	diesel-range hydrocarbons
TPH-g	gasoline-range hydrocarbons
TPH-o	oil-range hydrocarbons
VOCs	volatile organic compounds

1.0 INTRODUCTION

Sound Transit, officially the Central Puget Sound Regional Transit Authority, is a public transit agency serving the Seattle metropolitan area in Washington State. Beginning in 2015, Sound Transit commenced construction on the East Link light rail corridor through Bellevue, Washington. This project is divided into four segments referred to as E320, E330, E335, and E340. As part of the project, Sound Transit acquired several parcels of property and performed demolition and cleanup of environmental contaminants as necessary to construct the project.

This report documents the Independent Remedial Action completed by Sound Transit to address potentially contaminated soil encountered at the former South Bellevue Park and Ride facility (King County Tax Parcel 7000100360), located at 2500 Bellevue Way SE, in Bellevue, Washington ("the Site"). The location of the Site is shown on Figure 1. The Site is not currently identified as a confirmed or suspected contaminated site by the Washington State Department of Ecology (Ecology).

The Site is identified by Sound Transit as parcel EL111 in the construction documents and is part of the E320 segment being constructed under Sound Transit Contract No. RTA/CN 0063-15. INNOVEX Environmental Management, Inc. (INNOVEX) conducted activities related to the remedial action and prepared this report as a subcontractor to Sound Transit's prime construction management contractor, HDR.

The Independent Remedial Action was performed in a manner generally consistent with requirements of the Washington State Model Toxics Control Act (MTCA) Cleanup Regulation (Ecology, 2007), including section 173-340-515 (independent remedial actions), and this report provides information consistent with section 173-340-300 (site discovery and reporting).

1.1 Background Information

A Phase I Environmental Site Assessment (ESA) of the Site prepared for Sound Transit in 2015 identified that farm residences occupied the Site before it was converted into the South Bellevue Park and Ride in the 1980s (GeoEngineers Inc., 2015a). The Phase I ESA also noted that historical geotechnical boring logs reported fill at the Site contained demolition debris with fragments of wood, brick, and asphalt.

An ESA Data Report identified concentrations of oil-range hydrocarbons (TPH-o) exceeding applicable MTCA Cleanup Levels (CULs). Polycyclic aromatic hydrocarbon (PAH) concentrations were also reported but at concentrations below applicable MTCA CULs. These chemicals of concern were present in fill material at the locations of drilled shafts required for construction of the East Link (GeoEngineers Inc., 2015b).

From June 6 to June 13, 2017, the Sound Transit E320 general contractor, Shimmick-Parsons Joint Venture (SPJV) conducted a test pit investigation to confirm the presence or absence of

contaminated soil. SPJV excavated 13 test pits in the northern portion of the Site. Soil samples were collected by the SPJV environmental contractor, O'Neill Service Group (OSG), at 2-foot intervals to a maximum depth of 16 feet below ground surface (bgs). Fifteen samples were submitted for laboratory analysis. Laboratory analytical results indicated that PAHs were present in three of the 15 samples at concentrations exceeding the applicable MTCA CULs. No other contaminants were reported at concentrations exceeding applicable MTCA CULs. The approximate location of the test pit area is shown on Figure 2. The laboratory analytical reports from that investigation are included in Appendix B.

The Site is currently under construction as the future location of the Sound Transit South Bellevue Station and is surrounded by the Mercer Slough Nature Park on the north, east, and south sides, and by Bellevue Way SE to the west.

1.2 Objectives and Scope

1.2.1 Independent Remedial Action

The objectives of the remedial work described in this report were to identify and remove potentially contaminated soil encountered during the course of light rail construction activities. In accordance with our contract, the scope of the remedial action was limited to soil conditions only, and only to the extent necessary for completion of the light rail project.

1.2.2 Drilled Shaft Observation

The objectives of the drilled shaft observation work described in this report were to identify potentially contaminated soils and ensure that those soils were properly segregated. Drilling, stockpiling, and transportation of the soils was accomplished by other contractors and INNOVEX provided periodic oversight of these activities.

1.3 Cleanup Levels

The CULs specified in the MTCA Cleanup Regulation (Ecology, 2007) were used to evaluate analytical results. Detected analyte concentrations in soil were compared to MTCA Method A Soil CULs for Unrestricted Land Uses, if available. For analytes not listed as having Method A CULs, detected concentrations were compared to MTCA Method B Soil CULs based on direct contact. The MTCA CULs used to evaluate each detected analyte are included with analytical results provided in Table 1. Concentrations of detected carcinogenic polycyclic aromatic hydrocarbons (cPAHs) were evaluated by using MTCA-specific toxic equivalent concentrations (TECs). The TEC calculations are provided in Appendix C.

In this report, soil with detected analyte concentrations below MTCA CULs is referred to as impacted, and soil with analyte concentrations above MTCA CULs is referred to as contaminated.

2.0 INDEPENDENT REMEDIAL ACTION

This independent remedial action included the following activities:

- Characterization of creosote-stained soil encountered during construction
- Excavation and offsite disposal of known contaminated soil
- Confirmation soil sampling after potentially contaminated soil was removed

2.1 Debris Discovery

On June 29, 2017, SPJV's subcontractor, KLB Construction, Inc., encountered creosote-coated woody debris and creosote-stained soil during excavation for parking garage construction in the northeastern portion of the Site. The approximate area of the debris is shown on Figure 2.

2.1.1 Debris Area Characterization Soil Sampling and Analysis

On June 29, 2017, INNOVEX collected three characterization soil samples from within the area of debris. Samples were collected beneath debris where soil staining was observed and where contamination was most likely to be present. Soil sampling locations are shown on Figure 2.

Soil samples were collected in accordance with the Sampling and Analysis Plan prepared for this project (INNOVEX, 2018). Soil samples were placed into laboratory-supplied containers, labeled, and immediately placed in a cooler with ice. Samples were delivered under standard chain-of-custody procedures to OnSite Environmental, Inc. (OnSite), a Washington State-accredited laboratory located in Redmond, Washington for the following analyses:

- Gasoline-range hydrocarbons (TPH-g) using Method NWTPH-Gx
- Diesel-range hydrocarbons (TPH-d) and TPH-o using Method NWTPH-Dx
- Volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260
- PAHs using EPA Method 8270 SIM
- Resource Conservation and Recovery Act metals using EPA Methods 6010 and 7471

One characterization soil sample contained a detectable concentration of TPH-o, all three samples contained detectable concentrations of several VOCs and metals, and two of the three samples contained detectable concentrations of several PAHs. All analyte concentrations are below applicable MTCA CULs. Analytical results for analytes detected in one or more soil samples are summarized in Table 1. The laboratory analytical report is provided in Appendix B.

2.2 Known Contaminated Soil Removal

The area of contaminated soil identified during the June 2017 test pit investigation was excavated intermittently between June 29 and December 5, 2017. Excavated soil was staged onsite for offsite disposal. The approximate area of known contamination is shown on Figure 2.

2.2.1 Known Contaminated Area Confirmation Soil Sampling and Analysis

INNOVEX collected four confirmation soil samples when the excavation activities were completed in the area of known contamination. Samples were collected on November 29 and December 5,

2017 at elevations of approximately 26.5 and 27 feet above mean sea level. The sample locations and analytical results for detected analytes are shown on Figure 2.

Soil samples were collected, stored, and transported to the laboratory as described above in Section 2.1.1. Samples were submitted to OnSite for the following analyses:

- TPH-d and TPH-o using Method NWTPH-Dx
- Semi-volatile organic compounds using EPA Method 8270 SIM
- Polychlorinated biphenyls using EPA Method 8082
- Priority Pollutant metals using EPA Methods 6010 and 7471

Two of the confirmation soil samples contained concentrations of benzo(a)pyrene and cPAHs above the applicable MTCA CULs. No other analyte concentrations exceeded applicable MTCA CULs.

Analytical results for analytes detected in the soil samples are summarized in Table 1. The laboratory analytical reports are provided in Appendix B. The TEC calculations are provided in Appendix C.

2.3 Site Disposition

The soil removals were completed on December 5, 2017. The excavations were then regraded to meet the requirements of the Sound Transit East Link construction project.

3.0 DRILLED SHAFT OBSERVATIONS

Between August 14, 2017 and October 2, 2017, Malcolm Drilling Company, Inc. advanced ten drilled shafts at the Site. The shafts were located in areas where previous investigations found TPH-o exceeding applicable MTCA CULs and PAH concentrations below applicable MTCA CULs (GeoEngineers Inc., 2015b). Locations of the drilled shafts and areas of contaminated soil are shown on Figure 3.

Drilling and stockpiling, sampling, and transportation of drill spoils was accomplished by other contractors. INNOVEX provided periodic oversight of these activities and was on site periodically to observe the drill spoils for evidence of contamination. Results of these observations are summarized below.

Drilled Shaft Visual Observation Results:

Drilled Shaft Column	Date Drilled	Observations
B-33R	8/14/17-8/15/17	No evidence of contamination was observed.
B-33L	8/23/17-8/24/17	No evidence of contamination was observed.
B-32R	8/17/17-8/21/17	Petroleum odor observed in fill material from 0-20 feet bgs.
B-32L	8/25/17	Petroleum odor observed in fill material from 0-40 feet bgs.
B-31R	9/5/17	No evidence of contamination was observed.
B-31L	8/29/17-8/30/17	No evidence of contamination was observed.
B-30R	9/7/17	No evidence of contamination was observed.
B-30L	8/30/17-8/31/17	No evidence of contamination was observed.
B-29R	10/1/17-10/2/17	No evidence of contamination was observed.
B-29L	9/11/17	No evidence of contamination was observed.

Based on observations and characterization sampling conducted by the SPJV environmental contractor, OSG, potentially contaminated soils were segregated and stockpiled onsite for offsite disposal.

4.0 SOIL DISPOSAL

OSG collected samples of the excavated soil to characterize it for disposal. Laboratory analytical results indicate that the excavated soil contained analytes below applicable MTCA CULs. A total of 1,523 tons of impacted soil was removed during Independent Remedial Action and drilled shaft activities. The soil was transported to Republic Services Regional Disposal Facility in Seattle, Washington for disposal. Soil disposal tickets are provided in Appendix D.

5.0 CONCLUSIONS

The following conclusions are supported by the activities described above:

- cPAH concentrations above applicable MTCA CULs remain in soil in the known contaminated area in the northern portion of the Site (Figure 2). INNOVEX recommends administrative controls be established for this area.
- Groundwater was not encountered and no assessment of groundwater was completed as part of the Independent Remedial Action.

6.0 LIMITATIONS

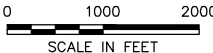
This report is for the exclusive use of Sound Transit and its representatives. INNOVEX prepared this report in a professional manner, using that level of skill and care normally exercised for similar projects under similar conditions by reputable and competent environmental consultants currently practicing in the area, and in accordance with the terms and conditions set forth in our contract and Sound Transit Contract RTA/CN 0063-15. INNOVEX is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the report was prepared. Also note that the facts and conditions referenced in this report may change over time and that the conclusions set forth here are applicable to the facts and conditions as described in this report. Conclusions were made within the operative constraints of the scope, budget, and schedule for this project. We believe that the conditions stated here are factual. No guarantee is made or implied. Any reliance on this report by a third party is at such party's sole risk.

7.0 REFERENCES

- GeoEngineers, Inc. 2015a. Phase I Environmental Site Assessment, Sound Transit East Link E320, EL111 King County Tax Parcel 7000100360, WSDOT Park and Ride 2700 Bellevue Way SE, Bellevue, Washington. February 12, 2015.
- GeoEngineers, Inc. 2015b. Environmental Site Assessment Data Report, Sound Transit East Link E320, WSDOT South Bellevue Park and Ride, EL111, East Link South Bellevue Station, Bellevue, Washington. July 15, 2015.
- INNOVEX Environmental Management, Inc. 2018. Sampling and Analysis Plan, Sound Transit East Link Segments E320, E330, E335, and E340, Bellevue, Washington. July 16, 2018.
- Washington State Department of Ecology. 2007. Model Toxics Control Act Cleanup Regulation, Chapter 173-340 Washington Administrative Code. Amended October 12, 2007.

FIGURES



DESIGNED BY
Innovex Environmental
Mitch Williams
DRAWN BY
ICD
January 24, 2018
 SCALE IN FEET



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LATITUDE 47D 35M 12S NORTH
LONGITUDE 122D 11M 23S WEST

US GEOLOGICAL SURVEY - 2017
7.5 MINUTE QUADRANGLE MAP
MERCER ISLAND, WASHINGTON

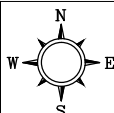
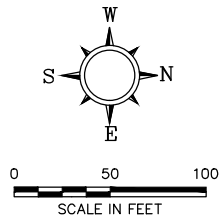
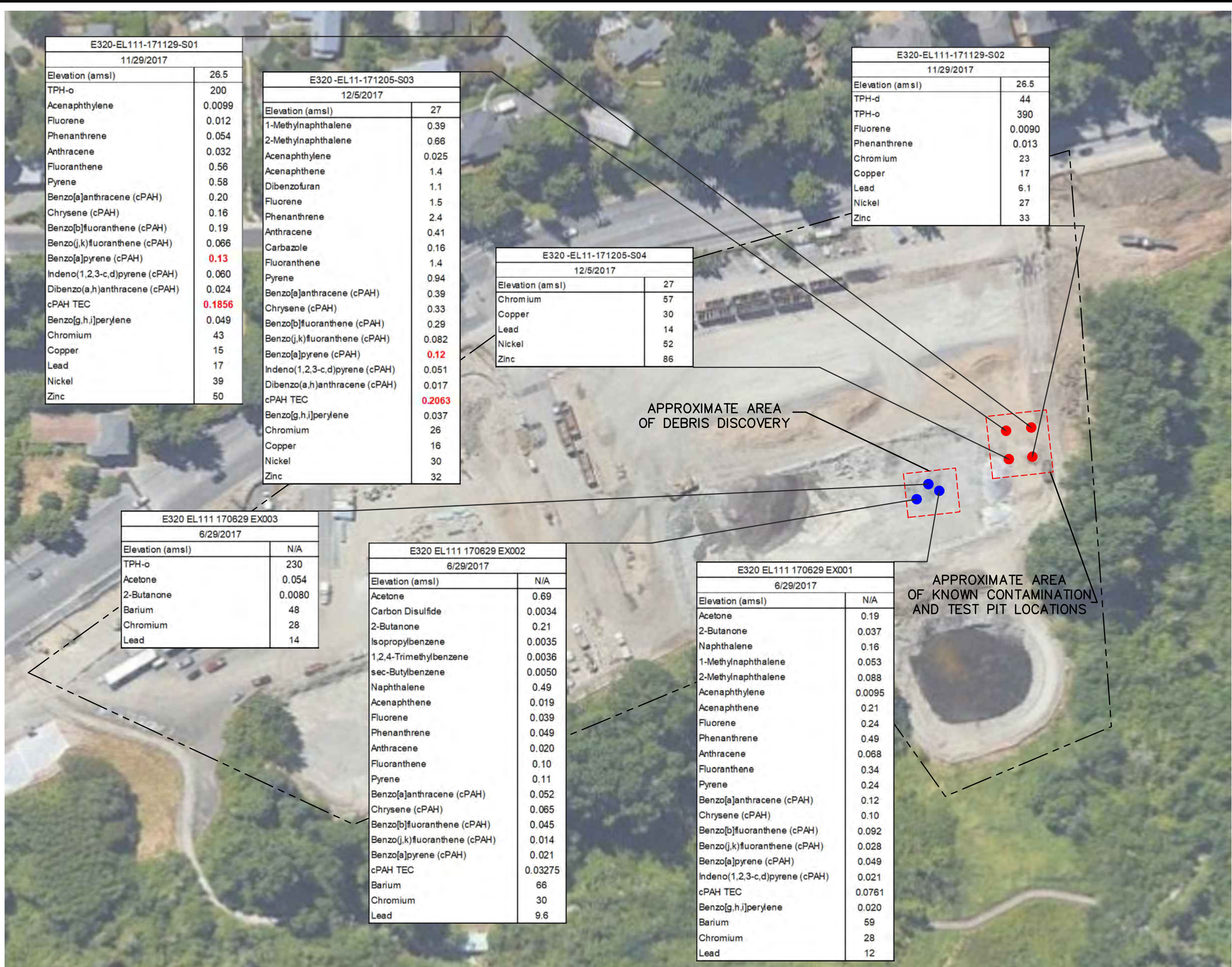


FIGURE 1

Site Location Map

E320-EL111
2500 BELLEVUE WAY SE
BELLEVUE, WASHINGTON



LEGEND

- APPROXIMATE PROPERTY LINE
- CONFIRMATION SOIL SAMPLING LOCATION
- CHARACTERIZATION SOIL SAMPLING LOCATION
- N/A NOT APPLICABLE
- TPH-o LUBE OIL RANGE HYDROCARBONS
- TPH-d DIESEL RANGE HYDROCARBONS
- cPAH CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
- cPAH TEC cPAH TOXIC EQUIVALENT CONCENTRATION
- amsl FEET ABOVE MEAN SEA LEVEL
- ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- SAMPLE RESULTS IN RED INDICATE AN EXCEEDANCE OF APPLICABLE CLEANUP LEVEL

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

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Innovex Environmental
Colin Duffy

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May 9, 2019

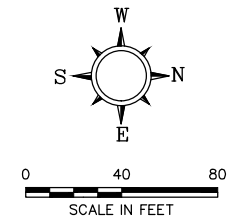
FIGURE 2

Soil Sample Location
and Detected
Analyte Results Map

E320-EL111
2500 BELLEVUE WAY SE
BELLEVUE, WASHINGTON

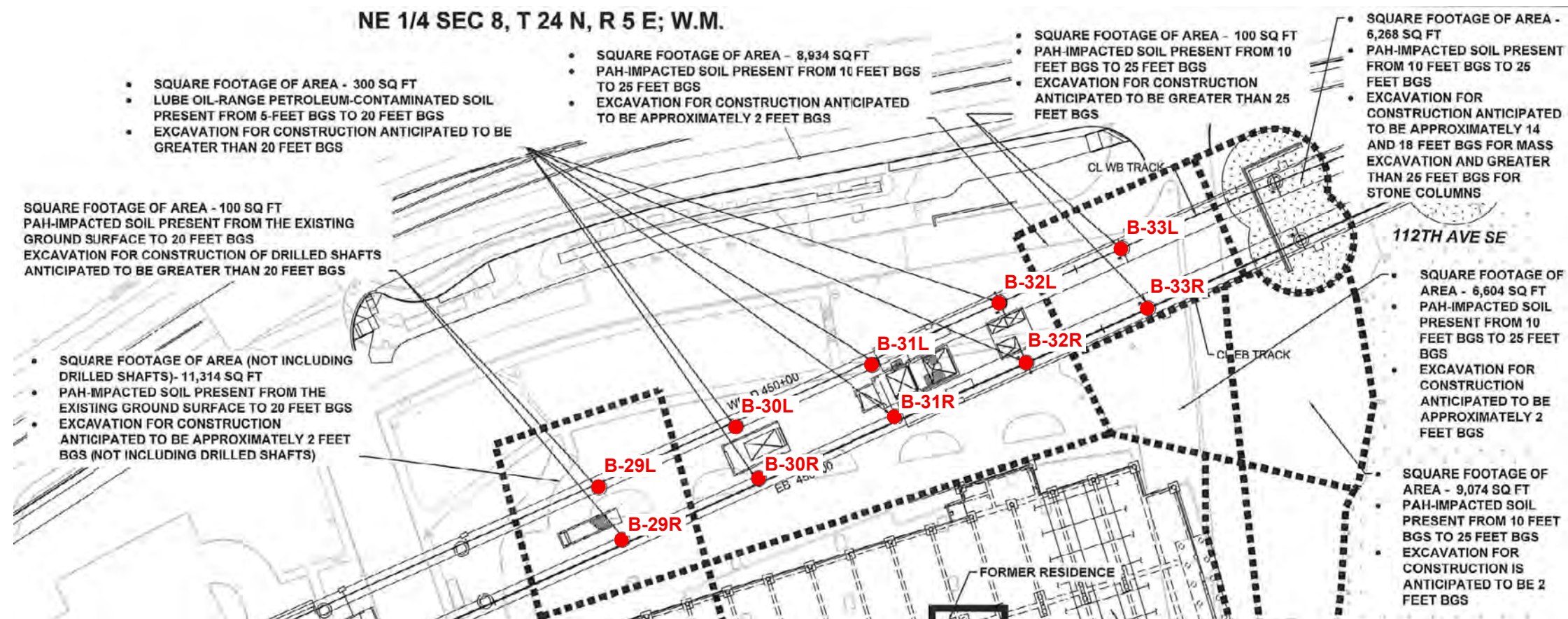


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LEGEND

● B-33L DRILLED SHAFT COLUMN LOCATION



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May 9, 2019

FIGURE 3

Drilled Shaft Column Location Map

E320-EL111
2500 BELLEVUE WAY SE
BELLEVUE, WASHINGTON



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TABLES

Table 1
Analytical Results for Analytes Detected in Soil
South Bellevue Station (EL111)

Sample Date	Sample ID	Elevation (feet amsl)	TPH-d		TPH-o		Acetone		Carbon Disulfide		2-Butanone		Isopropyl-benzene		1,2,4-Trimethyl-benzene	sec-Butyl-benzene		Naphthalene*		1-Methylnaphthalene		
Characterization Samples																						
6/29/2017	E320 EL111 170629 EX001	--	58	U	120	U	0.19		0.0015	U	0.037		0.00098	U	0.00098	U	0.00098	U	0.16		0.053	U
6/29/2017	E320 EL111 170629 EX002	--	86	U	170	U	1.6		0.0034		0.21		0.0035		0.0036		0.0050		0.49		0.011	U
6/29/2017	E320 EL111 170629 EX003	--	27	U	230		0.054		0.0015	U	0.0080		0.0010	U	0.0010	U	0.0010	U	0.58	U	0.0072	U
Confirmation Samples																						
11/29/2017	E320-EL111-171129-S01	26.5	33	U	200		--		--		--		--		--		--		0.0088	U	0.0088	U
11/29/2017	E320-EL111-171129-S02	26.5	44		390		--		--		--		--		--		--		0.0082	U	0.0082	U
12/5/2017	E320 -EL11-171205-S03	27	70	U	140	U	--		--				--		--		--		0.87		0.39	
12/5/2017	E320 -EL11-171205-S04	27	67	U	130	U	--		--		--		--		--		--		0.0090	U	0.0090	U
MTCA Cleanup Levels			2,000 ^a		2,000 ^a		72,000 ^b		8,000 ^b		48,000 ^b		8,000 ^b		--	8,000 ^b		5.0 ^b		34.5 ^b		

Notes:

All values are reported in milligrams per kilogram (mg/kg).

See additional notes on last page.

Table 1
Analytical Results for Analytes Detected in Soil
South Bellevue Station (EL111)

Sample Date	Sample ID	Elevation (feet amsl)	2-Methyl-naphthalene	Acenaphthylene	Acenaphthene	Dibenzo-furan	Fluorene	Phenanthrene	Anthracene	Carbazole	Fluoranthene	Pyrene
Characterization Samples												
6/29/2017	E320 EL111 170629 EX001	--	0.088	0.0095	0.21	--	0.24	0.49	0.068	--	0.34	0.24
6/29/2017	E320 EL111 170629 EX002	--	0.011 U	0.011 U	0.019	--	0.039	0.049	0.020	--	0.10	0.11
6/29/2017	E320 EL111 170629 EX003	--	0.0072 U	0.0072 U	0.0072 U	--	0.0072 U	0.0072 U	0.0072 U	--	0.0072 U	0.0072 U
Confirmation Samples												
11/29/2017	E320-EL111-171129-S01	26.5	0.0088 U	0.0099	0.0088 U	0.044 U	0.012	0.054	0.032	0.044 U	0.56	0.58
11/29/2017	E320-EL111-171129-S02	26.5	0.0082 U	0.0082 U	0.0082 U	0.041 U	0.0090	0.013	0.0082 U	0.041 U	0.0082 U	0.0082 U
12/5/2017	E320 -EL11-171205-S03	27	0.66	0.025	1.4	1.1	1.5	2.4	0.41	0.16	1.4	0.94
12/5/2017	E320 -EL11-171205-S04	27	0.0090 U	0.0090 U	0.0090 U	0.045 U	0.0090 U	0.0090 U	0.0090 U	0.045 U	0.0090 U	0.0090 U
MTCA Cleanup Levels			320 ^b	--	4,800 ^b	80 ^b	3,200 ^b	--	24,000 ^b	--	3,200 ^b	2,400 ^b

Notes:

All values are reported in milligrams per kilogram (mg/kg).

See additional notes on last page.

Table 1
Analytical Results for Analytes Detected in Soil
South Bellevue Station (EL111)

Sample Date	Sample ID	Elevation (feet amsl)	Benzo(a) anthracene (cPAH)	Chrysene (cPAH)	Benzo(b) fluoranthene (cPAH)	Benzo(j,k) fluoranthene (cPAH)	Benzo(a) pyrene (cPAH)	Indeno(1,2,3-cd)pyrene (cPAH)	Dibenzo(a,h) anthracene (cPAH)	cPAH TEC	Benzo[g,h,i] perylene
Characterization Samples											
6/29/2017	E320 EL111 170629 EX001	--	0.12	0.10	0.092	0.028	0.049	0.021	0.0077 U	0.0761	0.020
6/29/2017	E320 EL111 170629 EX002	--	0.052	0.065	0.045	0.014	0.021	0.011 U	0.011 U	0.03275	0.011 U
6/29/2017	E320 EL111 170629 EX003	--	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	--	0.0072 U
Confirmation Samples											
11/29/2017	E320-EL111-171129-S01	26.5	0.20	0.16	0.19	0.066	0.13	0.060	0.024	0.1856	0.049
11/29/2017	E320-EL111-171129-S02	26.5	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	--	0.0082 U
12/5/2017	E320 -EL11-171205-S03	27	0.39	0.33	0.29	0.082	0.12	0.051	0.017	0.2063	0.037
12/5/2017	E320 -EL11-171205-S04	27	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	--	0.0090 U
MTCA Cleanup Levels			1.37 ^b	137 ^b	1.37 ^b	13.7 ^b	0.1 ^a	1.37 ^b	0.137 ^b	0.1 ^a	--

Notes:

All values are reported in milligrams per kilogram (mg/kg).

See additional notes on last page.

Table 1
Analytical Results for Analytes Detected in Soil
South Bellevue Station (EL111)

Sample Date	Sample ID	Elevation (feet amsl)	Barium		Chromium		Copper		Lead		Nickel		Zinc	
Characterization Samples														
6/29/2017	E320 EL111 170629 EX001	--	59		28		--		12		--		--	
6/29/2017	E320 EL111 170629 EX002	--	66		30		--		9.6		--		--	
6/29/2017	E320 EL111 170629 EX003	--	48		28		--		14		--		--	
Confirmation Samples														
11/29/2017	E320-EL111-171129-S01	26.5	--		43		15		17		39		50	
11/29/2017	E320-EL111-171129-S02	26.5	--		23		17		6.1		27		33	
12/5/2017	E320 -EL11-171205-S03	27	--		26		16		7.0	U	30		32	
12/5/2017	E320 -EL11-171205-S04	27	--		57		30		14		52		86	
MTCA Cleanup Levels			16,000 ^b		2000 ^{***a}		3,200 ^b		250 ^a		1,600 ^b		24,000 ^b	

Notes:

All values are reported in milligrams per kilogram (mg/kg).

See additional notes on last page.

Table 1
Analytical Results for Analytes Detected in Soil
South Bellevue Station (EL111)

Notes:

Bold values exceed one or more cleanup levels.

-- = not analyzed or not applicable

* Higher value from volatile or semivolatile analysis is reported for naphthalene.

** The listed cleanup levels are for trivalent chromium. Detected chromium is presumed to be trivalent chromium.

^a = MTCA Method A Cleanup Level (Unrestricted)

^b = MTCA Method B Cleanup Level (Direct Contact)

amsl = above mean sea level

cPAHs = polycyclic aromatic hydrocarbons. benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, and indeno (1,2-cd)pyrene

MTCA = Model Toxics Control Act

TEC = Toxic Equivalent Concentration

U = undetected at the laboratory reporting limit shown

APPENDIX A

Site Photographs

APPENDIX A
Sound Transit Parcel EL111
Bellevue, Washington

Photograph 1

Date: June 29, 2017

Photographed by: Mitch Williams

Description: View of Creosote
Stained Soil and Debris

View Direction: East



Photograph 2

Date: June 29, 2017

Photographed by: Mitch Williams

Description: View of Creosote
Stained Soil

View Direction: West



Photograph 3

Date: 8/14/17

Photographed by: Colin Duffy

Description: Drilling drilled shaft B-33R.

View Direction: Northeast



Photograph 4

Date: 8/14/17

Photographed by: Colin Duffy

Description: Contaminated Soil Containment Cell.

View Direction: South



Photograph 5

Date: 8/21/17

Photographed by: Colin Duffy

Description: Contaminated Soil
Containment Cell.

View Direction: West



Photograph 6

Date: November 29, 2017

Photographed by: Colin
Duffy

Description: View of
Excavating in the Northern
Portion of the Site

View Direction: Southeast



Photograph 7

Date: November 29, 2017

Photographed by: Colin Duffy

Description: View of Final Grade
Sampling Location S02

View Direction: East



APPENDIX B

Laboratory Analytical Reports



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 10, 2017

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project 40300
Laboratory Reference No. 1706-357

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on June 29, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 10, 2017
Samples Submitted: June 29, 2017
Laboratory Reference: 1706-357
Project: 40300

Case Narrative

Samples were collected on June 29, 2017 and received by the laboratory on June 29, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Sample E320 EL111 170629 EX002 was analyzed by low-level Method 5035A and yielded a low result for the final internal standard, 1,4-Dichlorobenzene-d4. The sample was then re-analyzed by low-level Method 5035A and yielded a result for Naphthalene that exceeded the calibration level. The sample was then analyzed by high-level Method 5035A (methanol extraction). The result for the high-level analysis was much less than expected. The sample was deemed non-homogenous. Therefore the results for both the low-level analysis and the high-level analysis are provided for client's information.

PAHs EPA 8270D/SIM Analysis

The method blank had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX001						
Laboratory ID: 06-357-01						
Gasoline Range Organics	ND	23	NWTPH-HCID	6-30-17	6-30-17	
Diesel Range Organics	ND	58	NWTPH-HCID	6-30-17	6-30-17	
Lube Oil Range Organics	ND	120	NWTPH-HCID	6-30-17	6-30-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	112	50-150				

Client ID: E320 EL111 170629 EX002

Laboratory ID: 06-357-02

Gasoline Range Organics	ND	34	NWTPH-HCID	6-30-17	6-30-17	
Diesel Range Organics	ND	86	NWTPH-HCID	6-30-17	6-30-17	
Lube Oil Range Organics	ND	170	NWTPH-HCID	6-30-17	6-30-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	99	50-150				

Client ID: E320 EL111 170629 EX003

Laboratory ID: 06-357-03

Gasoline Range Organics	ND	22	NWTPH-HCID	6-30-17	6-30-17	
Diesel Range Organics	ND	54	NWTPH-HCID	6-30-17	6-30-17	
Lube Oil	Detected	110	NWTPH-HCID	6-30-17	6-30-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	100	50-150				



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	6-30-17	6-30-17	
Diesel Range Organics	ND	50	NWTPH-HCID	6-30-17	6-30-17	
Lube Oil Range Organics	ND	100	NWTPH-HCID	6-30-17	6-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: July 10, 2017
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 Laboratory Reference: 1706-357
 Project: 40300

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	E320 EL111 170629 EX003					
Laboratory ID:	06-357-03					
Diesel Range Organics	ND	27	NWTPH-Dx	7-6-17	7-6-17	
Lube Oil	230	54	NWTPH-Dx	7-6-17	7-6-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0706S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-6-17	7-6-17	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-6-17	7-6-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	93	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	07-014-15									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						96	95	50-150		



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX001						
Laboratory ID: 06-357-01						
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	6-30-17	6-30-17	
Chloromethane	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Vinyl Chloride	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Bromomethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Chloroethane	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Acetone	0.19	0.0098	EPA 8260C	6-30-17	6-30-17	
Iodomethane	ND	0.0071	EPA 8260C	6-30-17	6-30-17	
Carbon Disulfide	ND	0.0015	EPA 8260C	6-30-17	6-30-17	
Methylene Chloride	ND	0.0098	EPA 8260C	6-30-17	6-30-17	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Methyl t-Butyl Ether	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Vinyl Acetate	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
2-Butanone	0.037	0.0049	EPA 8260C	6-30-17	6-30-17	
Bromochloromethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Chloroform	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Benzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Trichloroethene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Dibromomethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Bromodichloromethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Toluene	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX001						
Laboratory ID: 06-357-01						
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Tetrachloroethene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
2-Hexanone	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Dibromochloromethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Chlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Ethylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
m,p-Xylene	ND	0.0020	EPA 8260C	6-30-17	6-30-17	
o-Xylene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Styrene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Bromoform	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Isopropylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Bromobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
n-Propylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
2-Chlorotoluene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
4-Chlorotoluene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,3,5-Trimethylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
tert-Butylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trimethylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
sec-Butylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
p-Isopropyltoluene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
n-Butylbenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
Naphthalene	ND	0.0049	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	6-30-17	6-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>133</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>124</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>121</i>	<i>80-131</i>				



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Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX002						
Laboratory ID: 06-357-02						
Dichlorodifluoromethane	ND	0.0025	EPA 8260C	7-5-17	7-5-17	
Chloromethane	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Vinyl Chloride	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Bromomethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Chloroethane	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Trichlorofluoromethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Acetone	0.69	0.019	EPA 8260C	7-5-17	7-5-17	
Iodomethane	ND	0.012	EPA 8260C	7-5-17	7-5-17	
Carbon Disulfide	0.0034	0.0031	EPA 8260C	7-5-17	7-5-17	Y
Methylene Chloride	ND	0.019	EPA 8260C	7-5-17	7-5-17	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Methyl t-Butyl Ether	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Vinyl Acetate	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
2,2-Dichloropropane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
2-Butanone	0.21	0.0096	EPA 8260C	7-5-17	7-5-17	
Bromochloromethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Chloroform	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1,1-Trichloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Carbon Tetrachloride	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloropropene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Benzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Trichloroethene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloropropane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Dibromomethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Bromodichloromethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
2-Chloroethyl Vinyl Ether	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
(cis) 1,3-Dichloropropene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Methyl Isobutyl Ketone	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Toluene	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
(trans) 1,3-Dichloropropene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	



Date of Report: July 10, 2017
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VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX002						
Laboratory ID: 06-357-02						
1,1,2-Trichloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Tetrachloroethene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,3-Dichloropropane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
2-Hexanone	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Dibromochloromethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromoethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Chlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Ethylbenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
m,p-Xylene	ND	0.0038	EPA 8260C	7-5-17	7-5-17	
o-Xylene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Styrene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Bromoform	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Isopropylbenzene	0.0035	0.0019	EPA 8260C	7-5-17	7-5-17	
Bromobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,1,2,2-Tetrachloroethane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
n-Propylbenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
2-Chlorotoluene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
4-Chlorotoluene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,3,5-Trimethylbenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
tert-Butylbenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trimethylbenzene	0.0036	0.0019	EPA 8260C	7-5-17	7-5-17	
sec-Butylbenzene	0.0050	0.0019	EPA 8260C	7-5-17	7-5-17	
1,3-Dichlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
p-Isopropyltoluene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,4-Dichlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2-Dichlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
n-Butylbenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromo-3-chloropropane	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trichlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Hexachlorobutadiene	ND	0.0096	EPA 8260C	7-5-17	7-5-17	
Naphthalene	0.49	0.0096	EPA 8260C	7-5-17	7-5-17	E
1,2,3-Trichlorobenzene	ND	0.0019	EPA 8260C	7-5-17	7-5-17	
Surrogate: Percent Recovery Control Limits						
Dibromofluoromethane	120	73-134				
Toluene-d8	112	81-124				
4-Bromofluorobenzene	95	80-131				



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX002						
Laboratory ID: 06-357-02						
Dichlorodifluoromethane	ND	0.15	EPA 8260C	7-5-17	7-5-17	
Chloromethane	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Vinyl Chloride	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Bromomethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Chloroethane	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Trichlorofluoromethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Acetone	1.6	1.2	EPA 8260C	7-5-17	7-5-17	
Iodomethane	ND	0.74	EPA 8260C	7-5-17	7-5-17	
Carbon Disulfide	ND	0.19	EPA 8260C	7-5-17	7-5-17	
Methylene Chloride	ND	1.2	EPA 8260C	7-5-17	7-5-17	
(trans) 1,2-Dichloroethene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Methyl t-Butyl Ether	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Vinyl Acetate	ND	0.58	EPA 8260C	7-5-17	7-5-17	
2,2-Dichloropropane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
(cis) 1,2-Dichloroethene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
2-Butanone	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Bromochloromethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Chloroform	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1,1-Trichloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Carbon Tetrachloride	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloropropene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Benzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Trichloroethene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloropropane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Dibromomethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Bromodichloromethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
2-Chloroethyl Vinyl Ether	ND	0.58	EPA 8260C	7-5-17	7-5-17	
(cis) 1,3-Dichloropropene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Methyl Isobutyl Ketone	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Toluene	ND	0.58	EPA 8260C	7-5-17	7-5-17	
(trans) 1,3-Dichloropropene	ND	0.12	EPA 8260C	7-5-17	7-5-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX002						
Laboratory ID: 06-357-02						
1,1,2-Trichloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Tetrachloroethene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,3-Dichloropropane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
2-Hexanone	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Dibromochloromethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromoethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Chlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1,1,2-Tetrachloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Ethylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
m,p-Xylene	ND	0.23	EPA 8260C	7-5-17	7-5-17	
o-Xylene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Styrene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Bromoform	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Isopropylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Bromobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,1,2,2-Tetrachloroethane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichloropropane	ND	0.12	EPA 8260C	7-5-17	7-5-17	
n-Propylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
2-Chlorotoluene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
4-Chlorotoluene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,3,5-Trimethylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
tert-Butylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trimethylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
sec-Butylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,3-Dichlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
p-Isopropyltoluene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,4-Dichlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2-Dichlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
n-Butylbenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromo-3-chloropropane	ND	0.58	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trichlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
Hexachlorobutadiene	ND	0.58	EPA 8260C	7-5-17	7-5-17	
Naphthalene	ND	0.58	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichlorobenzene	ND	0.12	EPA 8260C	7-5-17	7-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



Date of Report: July 10, 2017
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 Laboratory Reference: 1706-357
 Project: 40300

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX003						
Laboratory ID: 06-357-03						
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	6-30-17	6-30-17	
Chloromethane	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromomethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chloroethane	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Acetone	0.054	0.010	EPA 8260C	6-30-17	6-30-17	
Iodomethane	ND	0.0074	EPA 8260C	6-30-17	6-30-17	
Carbon Disulfide	ND	0.0015	EPA 8260C	6-30-17	6-30-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-30-17	6-30-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Vinyl Acetate	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Butanone	0.0080	0.0051	EPA 8260C	6-30-17	6-30-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chloroform	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Benzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Toluene	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX003						
Laboratory ID: 06-357-03						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Hexanone	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Ethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
m,p-Xylene	ND	0.0020	EPA 8260C	6-30-17	6-30-17	
o-Xylene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Styrene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromoform	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
Naphthalene	ND	0.0051	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-131</i>				



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 Project: 40300

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0630S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	6-30-17	6-30-17	
Chloromethane	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromomethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chloroethane	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Acetone	ND	0.010	EPA 8260C	6-30-17	6-30-17	
Iodomethane	ND	0.0073	EPA 8260C	6-30-17	6-30-17	
Carbon Disulfide	ND	0.0015	EPA 8260C	6-30-17	6-30-17	
Methylene Chloride	ND	0.010	EPA 8260C	6-30-17	6-30-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Butanone	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Bromochloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chloroform	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Benzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Trichloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Dibromomethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Toluene	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0630S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Hexanone	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Chlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Ethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
m,p-Xylene	ND	0.0020	EPA 8260C	6-30-17	6-30-17	
o-Xylene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Styrene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromoform	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Bromobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
Naphthalene	ND	0.0050	EPA 8260C	6-30-17	6-30-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	6-30-17	6-30-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	128	73-134				
Toluene-d8	121	81-124				
4-Bromofluorobenzene	122	80-131				



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 Laboratory Reference: 1706-357
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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0705S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	7-5-17	7-5-17	
Chloromethane	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Bromomethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Chloroethane	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Acetone	ND	0.010	EPA 8260C	7-5-17	7-5-17	
Iodomethane	ND	0.0064	EPA 8260C	7-5-17	7-5-17	
Carbon Disulfide	ND	0.0016	EPA 8260C	7-5-17	7-5-17	
Methylene Chloride	ND	0.010	EPA 8260C	7-5-17	7-5-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
2-Butanone	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Bromochloromethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Chloroform	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Benzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Trichloroethene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Dibromomethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Toluene	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	



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VOLATILES by EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0705S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
2-Hexanone	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Chlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Ethylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
m,p-Xylene	ND	0.0020	EPA 8260C	7-5-17	7-5-17	
o-Xylene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Styrene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Bromoform	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Bromobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
Naphthalene	ND	0.0050	EPA 8260C	7-5-17	7-5-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-5-17	7-5-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	123	73-134				
Toluene-d8	116	81-124				
4-Bromofluorobenzene	117	80-131				



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VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB0630S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0631	0.0627	0.0500	0.0500	126	125	66-127	1		15	
Benzene	0.0586	0.0567	0.0500	0.0500	117	113	76-122	3		15	
Trichloroethene	0.0484	0.0494	0.0500	0.0500	97	99	78-120	2		15	
Toluene	0.0567	0.0567	0.0500	0.0500	113	113	83-120	0		15	
Chlorobenzene	0.0491	0.0490	0.0500	0.0500	98	98	81-120	0		15	
Surrogate:											
Dibromofluoromethane					106	109	73-134				
Toluene-d8					99	106	81-124				
4-Bromofluorobenzene					101	107	80-131				



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 Project: 40300

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0705S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0613	0.0623	0.0500	0.0500	123	125	66-127	2	15	
Benzene	0.0573	0.0604	0.0500	0.0500	115	121	76-122	5	15	
Trichloroethene	0.0496	0.0518	0.0500	0.0500	99	104	78-120	4	15	
Toluene	0.0570	0.0583	0.0500	0.0500	114	117	83-120	2	15	
Chlorobenzene	0.0486	0.0506	0.0500	0.0500	97	101	81-120	4	15	
Surrogate:										
Dibromofluoromethane					103	104	73-134			
Toluene-d8					99	100	81-124			
4-Bromofluorobenzene					99	99	80-131			



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 Laboratory Reference: 1706-357
 Project: 40300

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX001						
Laboratory ID: 06-357-01						
Naphthalene	0.16	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
2-Methylnaphthalene	0.088	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
1-Methylnaphthalene	0.053	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthylene	0.0095	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthene	0.21	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Fluorene	0.24	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Phenanthrene	0.49	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Anthracene	0.068	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Fluoranthene	0.34	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Pyrene	0.24	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]anthracene	0.12	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Chrysene	0.10	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[b]fluoranthene	0.092	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[j,k]fluoranthene	0.028	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]pyrene	0.049	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Indeno(1,2,3-c,d)pyrene	0.021	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[g,h,i]perylene	0.020	0.0077	EPA 8270D/SIM	7-5-17	7-6-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	83	32 - 122				
Pyrene-d10	84	33 - 125				
Terphenyl-d14	104	36 - 118				



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 Project: 40300

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX002						
Laboratory ID: 06-357-02						
Naphthalene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
2-Methylnaphthalene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
1-Methylnaphthalene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthylene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthene	0.019	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Fluorene	0.039	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Phenanthrene	0.049	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Anthracene	0.020	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Fluoranthene	0.10	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Pyrene	0.11	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]anthracene	0.052	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Chrysene	0.065	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[b]fluoranthene	0.045	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[j,k]fluoranthene	0.014	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]pyrene	0.021	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Indeno(1,2,3-c,d)pyrene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270D/SIM	7-5-17	7-6-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	60	32 - 122				
Pyrene-d10	61	33 - 125				
Terphenyl-d14	74	36 - 118				



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 Project: 40300

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320 EL111 170629 EX003						
Laboratory ID: 06-357-03						
Naphthalene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Fluorene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Anthracene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Pyrene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Chrysene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[j,k]fluoranthene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	7-5-17	7-6-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	82	32 - 122				
Pyrene-d10	87	33 - 125				
Terphenyl-d14	107	36 - 118				



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 Project: 40300

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0705S1						
Naphthalene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	7-5-17	7-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	96	32 - 122				
Pyrene-d10	111	33 - 125				
Terphenyl-d14	123	36 - 118				Q



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 Laboratory Reference: 1706-357
 Project: 40300

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	07-001-08									
	MS	MSD	MS	MSD		MS	MSD			
Naphthalene	0.0646	0.0695	0.0833	0.0833	ND	78	83	39 - 112	7	27
Acenaphthylene	0.0755	0.0774	0.0833	0.0833	ND	91	93	40 - 121	2	34
Acenaphthene	0.0701	0.0704	0.0833	0.0833	ND	84	85	44 - 113	0	28
Fluorene	0.0690	0.0761	0.0833	0.0833	ND	83	91	43 - 119	10	27
Phenanthrene	0.0699	0.0754	0.0833	0.0833	ND	84	91	35 - 124	8	30
Anthracene	0.0777	0.0818	0.0833	0.0833	ND	93	98	30 - 140	5	26
Fluoranthene	0.0811	0.0860	0.0833	0.0833	ND	97	103	29 - 136	6	32
Pyrene	0.0794	0.0847	0.0833	0.0833	ND	95	102	35 - 128	6	33
Benzo[a]anthracene	0.0753	0.0790	0.0833	0.0833	ND	90	95	30 - 143	5	31
Chrysene	0.0715	0.0761	0.0833	0.0833	ND	86	91	32 - 129	6	33
Benzo[b]fluoranthene	0.0840	0.0908	0.0833	0.0833	ND	101	109	23 - 140	8	29
Benzo(j,k)fluoranthene	0.0833	0.0847	0.0833	0.0833	ND	100	102	32 - 119	2	30
Benzo[a]pyrene	0.0732	0.0761	0.0833	0.0833	ND	88	91	31 - 131	4	32
Indeno(1,2,3-c,d)pyrene	0.0770	0.0818	0.0833	0.0833	ND	92	98	31 - 130	6	28
Dibenz[a,h]anthracene	0.0722	0.0757	0.0833	0.0833	ND	87	91	40 - 119	5	27
Benzo[g,h,i]perylene	0.0849	0.0897	0.0833	0.0833	ND	102	108	39 - 119	5	29
Surrogate:										
2-Fluorobiphenyl						79	83	32 - 122		
Pyrene-d10						90	96	33 - 125		
Terphenyl-d14						96	102	36 - 118		



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 Project: 40300

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 06-357-01						
Client ID: E320 EL111 170629 EX001						
Arsenic	ND	12	6010C	6-30-17	6-30-17	
Barium	59	2.9	6010C	6-30-17	6-30-17	
Cadmium	ND	0.58	6010C	6-30-17	6-30-17	
Chromium	28	0.58	6010C	6-30-17	6-30-17	
Lead	12	5.8	6010C	6-30-17	6-30-17	
Mercury	ND	0.29	7471B	7-5-17	7-5-17	
Selenium	ND	12	6010C	6-30-17	6-30-17	
Silver	ND	1.2	6010C	6-30-17	6-30-17	

Lab ID: 06-357-02						
Client ID: E320 EL111 170629 EX002						
Arsenic	ND	17	6010C	6-30-17	6-30-17	
Barium	66	4.3	6010C	6-30-17	6-30-17	
Cadmium	ND	0.86	6010C	6-30-17	6-30-17	
Chromium	30	0.86	6010C	6-30-17	6-30-17	
Lead	9.6	8.6	6010C	6-30-17	6-30-17	
Mercury	ND	0.43	7471B	7-5-17	7-5-17	
Selenium	ND	17	6010C	6-30-17	6-30-17	
Silver	ND	1.7	6010C	6-30-17	6-30-17	



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	06-357-03					
Client ID:	E320 EL111 170629 EX003					
Arsenic	ND	11	6010C	6-30-17	6-30-17	
Barium	48	2.7	6010C	6-30-17	6-30-17	
Cadmium	ND	0.54	6010C	6-30-17	6-30-17	
Chromium	28	0.54	6010C	6-30-17	6-30-17	
Lead	14	5.4	6010C	6-30-17	6-30-17	
Mercury	ND	0.27	7471B	7-5-17	7-5-17	
Selenium	ND	11	6010C	6-30-17	6-30-17	
Silver	ND	1.1	6010C	6-30-17	6-30-17	



Date of Report: July 10, 2017
Samples Submitted: June 29, 2017
Laboratory Reference: 1706-357
Project: 40300

**TOTAL METALS
EPA 6010C/7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 6-30&7-5-17

Date Analyzed: 6-30&7-5-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0630SM1&MB0705S1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 6-30&7-5-17
 Date Analyzed: 6-30&7-5-17

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 06-350-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	34.7	35.6	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	21.6	26.5	20	0.50	
Lead	25.4	21.1	19	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: July 10, 2017
 Samples Submitted: June 29, 2017
 Laboratory Reference: 1706-357
 Project: 40300

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 6-30&7-5-17

Date Analyzed: 6-30&7-5-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 06-350-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	96.5	97	101	101	5	
Barium	100	131	96	133	98	2	
Cadmium	50.0	46.8	94	47.5	95	2	
Chromium	100	110	88	112	91	2	
Lead	250	241	86	252	91	4	
Mercury	0.500	0.532	106	0.527	105	1	
Selenium	100	96.6	97	96.8	97	0	
Silver	25.0	19.7	79	20.0	80	2	



Date of Report: July 10, 2017
Samples Submitted: June 29, 2017
Laboratory Reference: 1706-357
Project: 40300

% MOISTURE

Date Analyzed: 6-30-17

Client ID	Lab ID	% Moisture
E320 EL111 170629 EX001	06-357-01	14
E320 EL111 170629 EX002	06-357-02	42
E320 EL111 170629 EX003	06-357-03	7





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 13, 2017

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project 40300
Laboratory Reference No. 1712-006

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 1, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 13, 2017
Samples Submitted: December 1, 2017
Laboratory Reference: 1712-006
Project: 40300

Case Narrative

Samples were collected on November 29 and December 1, 2017 and received by the laboratory on December 1, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S01						
Laboratory ID: 12-006-01						
Gasoline Range Organics	ND	26	NWTPH-HCID	12-4-17	12-5-17	
Diesel Range Organics	ND	66	NWTPH-HCID	12-4-17	12-5-17	
Lube Oil Range Organics	Detected	130	NWTPH-HCID	12-4-17	12-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>110</i>	<i>50-150</i>				

Client ID: E320-EL111-171129-S02						
Laboratory ID: 12-006-02						
Gasoline Range Organics	ND	25	NWTPH-HCID	12-4-17	12-5-17	
Diesel Range Organics	ND	61	NWTPH-HCID	12-4-17	12-5-17	
Lube Oil Range Organics	Detected	120	NWTPH-HCID	12-4-17	12-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>109</i>	<i>50-150</i>				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	12-4-17	12-5-17	
Diesel Range Organics	ND	50	NWTPH-HCID	12-4-17	12-5-17	
Lube Oil Range Organics	ND	100	NWTPH-HCID	12-4-17	12-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>110</i>	<i>50-150</i>				



Date of Report: December 13, 2017
Samples Submitted: December 1, 2017
Laboratory Reference: 1712-006
Project: 40300

NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	E335-EL279-171201-DW01					
Laboratory ID:	12-006-03					
Gasoline	ND	100	NWTPH-Gx	12-5-17	12-5-17	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	66-114				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W3					
Gasoline	ND	100	NWTPH-Gx	12-5-17	12-5-17	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-114				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-011-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				80	86	66-114		



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E335-EL279-171201-DW01						
Laboratory ID: 12-006-03						
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-4-17	12-6-17	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-4-17	12-6-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-4-17	12-5-17	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-4-17	12-5-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	78	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-350-03									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						81	79	50-150		



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	E320-EL111-171129-S01					
Laboratory ID:	12-006-01					
Diesel Range Organics	ND	33	NWTPH-Dx	12-7-17	12-11-17	
Lube Oil Range Organics	200	66	NWTPH-Dx	12-7-17	12-11-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				
Client ID:	E320-EL111-171129-S02					
Laboratory ID:	12-006-02					
Diesel Range Organics	44	31	NWTPH-Dx	12-7-17	12-11-17	N
Lube Oil Range Organics	390	61	NWTPH-Dx	12-7-17	12-11-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	102	50-150				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-7-17	12-7-17	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-7-17	12-7-17	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-068-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				72	86	50-150		



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E335-EL279-171201-DW01						
Laboratory ID: 12-006-03						
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloromethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Vinyl Chloride	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromomethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloroethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Acetone	ND	5.0	EPA 8260C	12-1-17	12-1-17	
Iodomethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Carbon Disulfide	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methylene Chloride	ND	1.0	EPA 8260C	12-1-17	12-1-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Vinyl Acetate	ND	1.0	EPA 8260C	12-1-17	12-1-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Butanone	ND	5.0	EPA 8260C	12-1-17	12-1-17	
Bromochloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloroform	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Benzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Trichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Dibromomethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromodichloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	12-1-17	12-1-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-1-17	12-1-17	
Toluene	ND	1.0	EPA 8260C	12-1-17	12-1-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E335-EL279-171201-DW01						
Laboratory ID: 12-006-03						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Tetrachloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Hexanone	ND	2.0	EPA 8260C	12-1-17	12-1-17	
Dibromochloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Ethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
m,p-Xylene	ND	0.40	EPA 8260C	12-1-17	12-1-17	
o-Xylene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Styrene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromoform	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Isopropylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
n-Propylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
n-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Naphthalene	ND	1.0	EPA 8260C	12-1-17	12-1-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	104	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	98	78-125				



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Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1201W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloromethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Vinyl Chloride	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromomethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloroethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Acetone	ND	5.0	EPA 8260C	12-1-17	12-1-17	
Iodomethane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Carbon Disulfide	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methylene Chloride	ND	1.0	EPA 8260C	12-1-17	12-1-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Vinyl Acetate	ND	1.0	EPA 8260C	12-1-17	12-1-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Butanone	ND	5.0	EPA 8260C	12-1-17	12-1-17	
Bromochloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chloroform	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Benzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Trichloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Dibromomethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromodichloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Chloroethyl Vinyl Ether	ND	2.3	EPA 8260C	12-1-17	12-1-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-1-17	12-1-17	
Toluene	ND	1.0	EPA 8260C	12-1-17	12-1-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-1-17	12-1-17	



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 Project: 40300

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1201W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Tetrachloroethene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Hexanone	ND	2.0	EPA 8260C	12-1-17	12-1-17	
Dibromochloromethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Chlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Ethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
m,p-Xylene	ND	0.40	EPA 8260C	12-1-17	12-1-17	
o-Xylene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Styrene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromoform	ND	1.0	EPA 8260C	12-1-17	12-1-17	
Isopropylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Bromobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-1-17	12-1-17	
n-Propylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
n-Butylbenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-1-17	12-1-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Naphthalene	ND	1.0	EPA 8260C	12-1-17	12-1-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-1-17	12-1-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	100	78-125				



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VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB1201W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.81	10.0	10.0	101	98	63-126	3	21	
Benzene	10.3	10.2	10.0	10.0	103	102	78-122	1	19	
Trichloroethene	10.1	9.90	10.0	10.0	101	99	63-120	2	20	
Toluene	10.7	10.5	10.0	10.0	107	105	79-124	2	19	
Chlorobenzene	10.5	10.4	10.0	10.0	105	104	78-120	1	19	
Surrogate:										
Dibromofluoromethane					97	104	75-127			
Toluene-d8					99	98	80-127			
4-Bromofluorobenzene					98	100	78-125			



Date of Report: December 13, 2017
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SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S01						
Laboratory ID: 12-006-01						
n-Nitrosodimethylamine	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Pyridine	ND	0.44	EPA 8270D	12-5-17	12-5-17	
Phenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Aniline	ND	0.22	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethyl)ether	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Chlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,3-Dichlorobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,4-Dichlorobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Benzyl alcohol	ND	0.22	EPA 8270D	12-5-17	12-5-17	
1,2-Dichlorobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Methylphenol (o-Cresol)	ND	0.044	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroisopropyl)ether	ND	0.044	EPA 8270D	12-5-17	12-5-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.044	EPA 8270D	12-5-17	12-5-17	
n-Nitroso-di-n-propylamine	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Hexachloroethane	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Nitrobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Isophorone	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Nitrophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,4-Dimethylphenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethoxy)methane	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,4-Dichlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,2,4-Trichlorobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Naphthalene	ND	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
4-Chloroaniline	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Hexachlorobutadiene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
4-Chloro-3-methylphenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Methylnaphthalene	ND	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
1-Methylnaphthalene	ND	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
Hexachlorocyclopentadiene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,4,6-Trichlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,3-Dichloroaniline	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,4,5-Trichlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Chloronaphthalene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2-Nitroaniline	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,4-Dinitrobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Dimethylphthalate	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,3-Dinitrobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,6-Dinitrotoluene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,2-Dinitrobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Acenaphthylene	0.0099	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
3-Nitroaniline	ND	0.044	EPA 8270D	12-5-17	12-5-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S01						
Laboratory ID: 12-006-01						
2,4-Dinitrophenol	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Acenaphthene	ND	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
4-Nitrophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,4-Dinitrotoluene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Dibenzofuran	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,3,5,6-Tetrachlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
2,3,4,6-Tetrachlorophenol	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Diethylphthalate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
4-Chlorophenyl-phenylether	ND	0.044	EPA 8270D	12-5-17	12-5-17	
4-Nitroaniline	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Fluorene	0.012	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270D	12-5-17	12-5-17	
n-Nitrosodiphenylamine	ND	0.044	EPA 8270D	12-5-17	12-5-17	
1,2-Diphenylhydrazine	ND	0.044	EPA 8270D	12-5-17	12-5-17	
4-Bromophenyl-phenylether	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Hexachlorobenzene	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Pentachlorophenol	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Phenanthrene	0.054	0.044	EPA 8270D	12-5-17	12-5-17	
Anthracene	0.032	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
Carbazole	ND	0.044	EPA 8270D	12-5-17	12-5-17	
Di-n-butylphthalate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Fluoranthene	0.56	0.044	EPA 8270D	12-5-17	12-5-17	
Benzidine	ND	0.44	EPA 8270D	12-5-17	12-5-17	
Pyrene	0.58	0.044	EPA 8270D	12-5-17	12-5-17	
Butylbenzylphthalate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
bis(2-Ethylhexyl)adipate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Benzo[a]anthracene	0.20	0.044	EPA 8270D	12-5-17	12-5-17	
Chrysene	0.16	0.044	EPA 8270D	12-5-17	12-5-17	
bis(2-Ethylhexyl)phthalate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Di-n-octylphthalate	ND	0.22	EPA 8270D	12-5-17	12-5-17	
Benzo[b]fluoranthene	0.19	0.044	EPA 8270D	12-5-17	12-5-17	
Benzo(j,k)fluoranthene	0.066	0.044	EPA 8270D	12-5-17	12-5-17	
Benzo[a]pyrene	0.13	0.044	EPA 8270D	12-5-17	12-5-17	
Indeno[1,2,3-cd]pyrene	0.060	0.044	EPA 8270D	12-5-17	12-5-17	
Dibenz[a,h]anthracene	0.024	0.0088	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[g,h,i]perylene	0.049	0.044	EPA 8270D	12-5-17	12-5-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorophenol	63	18 - 113				
Phenol-d6	66	19 - 119				
Nitrobenzene-d5	66	19 - 119				
2-Fluorobiphenyl	66	33 - 109				
2,4,6-Tribromophenol	69	19 - 121				
Terphenyl-d14	64	30 - 116				



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 Project: 40300

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S02						
Laboratory ID: 12-006-02						
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Pyridine	ND	0.41	EPA 8270D	12-5-17	12-5-17	
Phenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Aniline	ND	0.20	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Chlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Benzyl alcohol	ND	0.20	EPA 8270D	12-5-17	12-5-17	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	12-5-17	12-5-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	12-5-17	12-5-17	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Hexachloroethane	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Nitrobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Isophorone	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Nitrophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Naphthalene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
4-Chloroaniline	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Hexachlorobutadiene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Methylnaphthalene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
1-Methylnaphthalene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Chloronaphthalene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2-Nitroaniline	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Dimethylphthalate	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Acenaphthylene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
3-Nitroaniline	ND	0.041	EPA 8270D	12-5-17	12-5-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S02						
Laboratory ID: 12-006-02						
2,4-Dinitrophenol	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Acenaphthene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
4-Nitrophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Dibenzofuran	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Diethylphthalate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	12-5-17	12-5-17	
4-Nitroaniline	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Fluorene	0.0090	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	12-5-17	12-5-17	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	12-5-17	12-5-17	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	12-5-17	12-5-17	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Hexachlorobenzene	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Pentachlorophenol	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Phenanthrene	0.013	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Anthracene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Carbazole	ND	0.041	EPA 8270D	12-5-17	12-5-17	
Di-n-butylphthalate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Fluoranthene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Benzidine	ND	0.41	EPA 8270D	12-5-17	12-5-17	
Pyrene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Butylbenzylphthalate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
bis(2-Ethylhexyl)adipate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Benzo[a]anthracene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Chrysene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Di-n-octylphthalate	ND	0.20	EPA 8270D	12-5-17	12-5-17	
Benzo[b]fluoranthene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo(j,k)fluoranthene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[a]pyrene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Indeno[1,2,3-cd]pyrene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[g,h,i]perylene	ND	0.0082	EPA 8270D/SIM	12-5-17	12-5-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	55	18 - 113				
Phenol-d6	56	19 - 119				
Nitrobenzene-d5	60	19 - 119				
2-Fluorobiphenyl	60	33 - 109				
2,4,6-Tribromophenol	61	19 - 121				
Terphenyl-d14	58	30 - 116				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**SEMIVOLATILES EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Pyridine	ND	0.33	EPA 8270D	12-5-17	12-5-17	
Phenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Aniline	ND	0.17	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Chlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Benzyl alcohol	ND	0.17	EPA 8270D	12-5-17	12-5-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-5-17	12-5-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-5-17	12-5-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Hexachloroethane	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Nitrobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Isophorone	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Nitrophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
4-Chloroaniline	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2-Nitroaniline	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Dimethylphthalate	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
3-Nitroaniline	ND	0.033	EPA 8270D	12-5-17	12-5-17	



Date of Report: December 13, 2017
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 Laboratory Reference: 1712-006
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**SEMIVOLATILES EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1205S1						
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
4-Nitrophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Dibenzofuran	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Diethylphthalate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-5-17	12-5-17	
4-Nitroaniline	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-5-17	12-5-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-5-17	12-5-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-5-17	12-5-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Pentachlorophenol	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Carbazole	ND	0.033	EPA 8270D	12-5-17	12-5-17	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Benzidine	ND	0.33	EPA 8270D	12-5-17	12-5-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-5-17	12-5-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-5-17	12-5-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	61	18 - 113				
Phenol-d6	66	19 - 119				
Nitrobenzene-d5	62	19 - 119				
2-Fluorobiphenyl	64	33 - 109				
2,4,6-Tribromophenol	71	19 - 121				
Terphenyl-d14	66	30 - 116				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**SEMIVOLATILES EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.938	0.927	1.33	1.33	71	70	39 - 109	1	36	
2-Chlorophenol	0.894	0.884	1.33	1.33	67	66	42 - 105	1	35	
1,4-Dichlorobenzene	0.439	0.429	0.667	0.667	66	64	31 - 103	2	37	
n-Nitroso-di-n-propylamine	0.494	0.509	0.667	0.667	74	76	36 - 104	3	34	
1,2,4-Trichlorobenzene	0.439	0.450	0.667	0.667	66	67	32 - 104	2	38	
4-Chloro-3-methylphenol	0.948	0.989	1.33	1.33	71	74	48 - 107	4	31	
Acenaphthene	0.415	0.424	0.667	0.667	62	64	38 - 102	2	33	
4-Nitrophenol	0.953	0.999	1.33	1.33	72	75	27 - 121	5	35	
2,4-Dinitrotoluene	0.401	0.424	0.667	0.667	60	64	36 - 103	6	34	
Pentachlorophenol	0.868	0.904	1.33	1.33	65	68	21 - 114	4	37	
Pyrene	0.437	0.452	0.667	0.667	66	68	46 - 108	3	31	
Surrogate:										
2-Fluorophenol					71	70	18 - 113			
Phenol-d6					75	72	19 - 119			
Nitrobenzene-d5					72	72	19 - 119			
2-Fluorobiphenyl					68	69	33 - 109			
2,4,6-Tribromophenol					74	77	19 - 121			
Terphenyl-d14					67	68	30 - 116			



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

PAHs EPA 8270D/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E335-EL279-171201-DW01						
Laboratory ID: 12-006-03						
Naphthalene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
2-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
1-Methylnaphthalene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Acenaphthylene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Acenaphthene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Fluorene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Phenanthrene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Anthracene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Fluoranthene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Pyrene	ND	0.096	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[a]anthracene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Chrysene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[j,k]fluoranthene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[a]pyrene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Indeno(1,2,3-c,d)pyrene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270D/SIM	12-4-17	12-4-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	70	25 - 107				
Pyrene-d10	81	28 - 103				
Terphenyl-d14	88	36 - 129				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1204W1						
Naphthalene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Fluorene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Anthracene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Pyrene	ND	0.10	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Chrysene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-4-17	12-4-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	60	25 - 107				
Pyrene-d10	81	28 - 103				
Terphenyl-d14	90	36 - 129				



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.410	0.419	0.500	0.500	82	84	27 - 106	2	35	
Acenaphthylene	0.480	0.483	0.500	0.500	96	97	20 - 117	1	34	
Acenaphthene	0.457	0.477	0.500	0.500	91	95	30 - 114	4	32	
Fluorene	0.482	0.503	0.500	0.500	96	101	36 - 116	4	28	
Phenanthrene	0.493	0.493	0.500	0.500	99	99	31 - 122	0	26	
Anthracene	0.500	0.504	0.500	0.500	100	101	33 - 144	1	26	
Fluoranthene	0.534	0.526	0.500	0.500	107	105	44 - 120	2	25	
Pyrene	0.538	0.533	0.500	0.500	108	107	40 - 130	1	29	
Benzo[a]anthracene	0.586	0.568	0.500	0.500	117	114	47 - 131	3	27	
Chrysene	0.520	0.514	0.500	0.500	104	103	48 - 120	1	29	
Benzo[b]fluoranthene	0.560	0.545	0.500	0.500	112	109	42 - 128	3	29	
Benzo(j,k)fluoranthene	0.539	0.521	0.500	0.500	108	104	46 - 121	3	27	
Benzo[a]pyrene	0.553	0.535	0.500	0.500	111	107	34 - 121	3	29	
Indeno(1,2,3-c,d)pyrene	0.545	0.530	0.500	0.500	109	106	39 - 128	3	28	
Dibenz[a,h]anthracene	0.544	0.530	0.500	0.500	109	106	39 - 125	3	30	
Benzo[g,h,i]perylene	0.539	0.515	0.500	0.500	108	103	41 - 122	5	29	
Surrogate:										
2-Fluorobiphenyl					70	62	25 - 107			
Pyrene-d10					88	81	28 - 103			
Terphenyl-d14					101	93	36 - 129			



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171129-S01						
Laboratory ID: 12-006-01						
Aroclor 1016	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1221	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1232	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1242	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1248	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1254	ND	0.066	EPA 8082A	12-4-17	12-5-17	
Aroclor 1260	ND	0.066	EPA 8082A	12-4-17	12-5-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
<i>DCB 69 40-134</i>						

Client ID: E320-EL111-171129-S02						
Laboratory ID: 12-006-02						
Aroclor 1016	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1221	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1232	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1242	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1248	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1254	ND	0.061	EPA 8082A	12-4-17	12-5-17	
Aroclor 1260	ND	0.061	EPA 8082A	12-4-17	12-5-17	
<i>Surrogate: Percent Recovery Control Limits</i>						
<i>DCB 67 40-134</i>						



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1221	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1232	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1242	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1248	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1254	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Aroclor 1260	ND	0.050	EPA 8082A	12-4-17	12-4-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	57	40-134				

Analyte	Result				Spike Level	Source	Percent	Recovery	RPD		
						Result	Recovery	Limits			
MATRIX SPIKES											
Laboratory ID:	12-006-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.361	0.391	0.500	0.500	ND	72	78	34-126	8	16	
Surrogate:											
DCB						69	67	40-134			



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	12-006-01					
Client ID:	E320-EL111-171129-S01					
Antimony	ND	6.6	6010C	12-4-17	12-5-17	
Arsenic	ND	13	6010C	12-4-17	12-5-17	
Beryllium	ND	0.66	6010C	12-4-17	12-5-17	
Cadmium	ND	0.66	6010C	12-4-17	12-5-17	
Chromium	43	0.66	6010C	12-4-17	12-5-17	
Copper	15	1.3	6010C	12-4-17	12-5-17	
Lead	17	6.6	6010C	12-4-17	12-5-17	
Mercury	ND	0.33	7471B	12-4-17	12-4-17	
Nickel	39	3.3	6010C	12-4-17	12-5-17	
Selenium	ND	13	6010C	12-4-17	12-5-17	
Silver	ND	1.3	6010C	12-4-17	12-5-17	
Thallium	ND	3.3	6020A	12-4-17	12-6-17	
Zinc	50	3.3	6010C	12-4-17	12-5-17	



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-006-02					
Client ID:	E320-EL111-171129-S02					
Antimony	ND	6.1	6010C	12-4-17	12-5-17	
Arsenic	ND	12	6010C	12-4-17	12-5-17	
Beryllium	ND	0.61	6010C	12-4-17	12-5-17	
Cadmium	ND	0.61	6010C	12-4-17	12-5-17	
Chromium	23	0.61	6010C	12-4-17	12-5-17	
Copper	17	1.2	6010C	12-4-17	12-5-17	
Lead	6.1	6.1	6010C	12-4-17	12-5-17	
Mercury	ND	0.31	7471B	12-4-17	12-4-17	
Nickel	27	3.1	6010C	12-4-17	12-5-17	
Selenium	ND	12	6010C	12-4-17	12-5-17	
Silver	ND	1.2	6010C	12-4-17	12-5-17	
Thallium	ND	3.1	6020A	12-4-17	12-6-17	
Zinc	33	3.1	6010C	12-4-17	12-5-17	



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-4-17
 Date Analyzed: 12-4,5&6-17

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: MB1204SH1&MB1204S1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	2.5
Zinc	6010C	ND	2.5



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 12-4-17
 Date Analyzed: 12-4,5&6-17

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 12-006-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	19.0	23.1	19	0.50	
Copper	14.2	12.9	10	1.0	
Lead	5.00	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Nickel	22.3	24.8	10	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	2.5	
Zinc	26.8	29.1	8	2.5	



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-4-17
 Date Analyzed: 12-4,5&6-17

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 12-006-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	92.4	92	91.9	92	0	
Arsenic	100	105	105	105	105	0	
Beryllium	50.0	49.5	99	49	98	1	
Cadmium	50.0	49.7	99	49.1	98	1	
Chromium	100	115	96	111	92	4	
Copper	50.0	63.9	99	63.4	98	1	
Lead	250	242	95	238	93	2	
Mercury	0.500	0.465	93	0.468	94	1	
Nickel	100	119	96	116	94	2	
Selenium	100	107	107	104	104	3	
Silver	25.0	23.4	93	23.3	93	0	
Thallium	50.0	43.3	87	44.3	89	2	
Zinc	100	122	95	126	99	3	



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

TOTAL METALS
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	12-006-03					
Client ID:	E335-EL279-171201-DW01					
Arsenic	1.8	0.50	200.8	12-5-17	12-5-17	
Chromium	1.3	1.0	200.8	12-5-17	12-5-17	
Lead	ND	0.50	200.8	12-5-17	12-5-17	



Date of Report: December 13, 2017
Samples Submitted: December 1, 2017
Laboratory Reference: 1712-006
Project: 40300

**TOTAL METALS
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-5-17
Date Analyzed: 12-5-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1205WH1

Analyte	Method	Result	PQL
Arsenic	200.8	ND	0.50
Chromium	200.8	ND	1.0
Lead	200.8	ND	0.50



Date of Report: December 13, 2017
Samples Submitted: December 1, 2017
Laboratory Reference: 1712-006
Project: 40300

**TOTAL METALS
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-5-17
Date Analyzed: 12-5-17

Matrix: Water
Units: ug/L (ppb)

Lab ID: 12-006-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	1.78	1.90	6	0.50	
Chromium	1.33	1.31	2	1.0	
Lead	ND	ND	NA	0.50	



Date of Report: December 13, 2017
 Samples Submitted: December 1, 2017
 Laboratory Reference: 1712-006
 Project: 40300

**TOTAL METALS
 EPA 200.8
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-5-17

Date Analyzed: 12-5-17

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-006-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	111	109	110	108	1	
Chromium	100	104	103	104	103	0	
Lead	100	102	102	102	102	1	



Date of Report: December 13, 2017
Samples Submitted: December 1, 2017
Laboratory Reference: 1712-006
Project: 40300

% MOISTURE

Date Analyzed: 12-4-17

Client ID	Lab ID	% Moisture
E320-EL111-171129-S01	12-006-01	24
E320-EL111-171129-S02	12-006-02	19





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
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Chain of Custody

Page 1 of 1

Company: ENVIRONEX		Turnaround Request (in working days)		Laboratory Number: 12-006															
Project Number: 40300		(Check One)																	
Project Name: E320		☐ Same Day ☐ 1 Day																	
Project Manager: Glenn Hayman		☐ 2 Days ☐ 3 Days																	
Sampled by: Colin Duffy		☐ Standard (7 Days) (TPH analysis 5 Days)																	
Sampled by: Colin Duffy		☒ 5 Day (other)																	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers														
1	E320-E111-171129501	11/29/17	1300	SO	2	NWTPH-HCID with follow up													
2	E320-E111-171129502	11/29/17	1310	SO	2	NWTPH-Gx/BTEX													
3	E335-E1214-171201-BW01	12/01/17	1130	GW	10	NWTPH-Gx													
						NWTPH-Dx (☐ Acid / SG Clean-up)													
						Volatiles 8260C													
						Halogenated Volatiles 8260C													
						EDB EPA 8011 (Waters Only)													
						Semivolatiles 8270D/SIM (with low-level PAHs)													
						PAHs 8270D/SIM (low-level)													
						PCBs 8082A													
						Organochlorine Pesticides 8081B													
						Organophosphorus Pesticides 8270D/SIM													
						Chlorinated Acid Herbicides 8151A													
						Total HCB Metals PP													
						Total MTCA Metals													
						TCLP Metals													
						HEM (oil and grease) 1664A													
						metals - As, Cr, Pb													
						% Moisture													
Signature: ENVIRONEX		Company: ENVIRONEX		Date: 12/11/17		Time: 1205		Comments/Special Instructions: See attached table for specific VOC/PAH analysis & special detection limits for water samples											
Relinquished		Relinquished		Relinquished		Relinquished		Data Package: Standard ☒ Level III ☐ Level IV ☐											
Received		Received		Received		Received		Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒											
Reviewed/Date		Reviewed/Date		Reviewed/Date		Reviewed/Date													



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 12, 2017

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project 40300
Laboratory Reference No. 1712-035

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 12, 2017
Samples Submitted: December 5, 2017
Laboratory Reference: 1712-035
Project: 40300

Case Narrative

Samples were collected on December 5, 2017 and received by the laboratory on December 5, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S03						
Laboratory ID: 12-035-01						
Gasoline Range Organics	ND	28	NWTPH-HCID	12-6-17	12-8-17	
Diesel Range Organics	ND	70	NWTPH-HCID	12-6-17	12-8-17	
Lube Oil Range Organics	ND	140	NWTPH-HCID	12-6-17	12-8-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	118	50-150				

Client ID: E320-EL111-171205-S04						
Laboratory ID: 12-035-02						
Gasoline Range Organics	ND	27	NWTPH-HCID	12-6-17	12-8-17	
Diesel Range Organics	ND	67	NWTPH-HCID	12-6-17	12-8-17	
Lube Oil Range Organics	ND	130	NWTPH-HCID	12-6-17	12-8-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	105	50-150				



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	12-6-17	12-8-17	
Diesel Range Organics	ND	50	NWTPH-HCID	12-6-17	12-8-17	
Lube Oil Range Organics	ND	100	NWTPH-HCID	12-6-17	12-8-17	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i>-Terphenyl	117	50-150				



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

SEMIVOLATILES EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S03						
Laboratory ID: 12-035-01						
n-Nitrosodimethylamine	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Pyridine	ND	0.47	EPA 8270D	12-8-17	12-11-17	
Phenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Aniline	ND	0.23	EPA 8270D	12-8-17	12-11-17	
bis(2-Chloroethyl)ether	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Chlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,3-Dichlorobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,4-Dichlorobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Benzyl alcohol	ND	0.23	EPA 8270D	12-8-17	12-11-17	
1,2-Dichlorobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Methylphenol (o-Cresol)	ND	0.047	EPA 8270D	12-8-17	12-11-17	
bis(2-Chloroisopropyl)ether	ND	0.047	EPA 8270D	12-8-17	12-11-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.047	EPA 8270D	12-8-17	12-11-17	
n-Nitroso-di-n-propylamine	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Hexachloroethane	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Nitrobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Isophorone	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Nitrophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,4-Dimethylphenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
bis(2-Chloroethoxy)methane	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,4-Dichlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,2,4-Trichlorobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Naphthalene	0.87	0.047	EPA 8270D	12-8-17	12-11-17	
4-Chloroaniline	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Hexachlorobutadiene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
4-Chloro-3-methylphenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Methylnaphthalene	0.66	0.047	EPA 8270D	12-8-17	12-11-17	
1-Methylnaphthalene	0.39	0.047	EPA 8270D	12-8-17	12-11-17	
Hexachlorocyclopentadiene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,4,6-Trichlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,3-Dichloroaniline	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,4,5-Trichlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Chloronaphthalene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2-Nitroaniline	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,4-Dinitrobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Dimethylphthalate	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,3-Dinitrobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,6-Dinitrotoluene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,2-Dinitrobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Acenaphthylene	0.025	0.0094	EPA 8270D/SIM	12-8-17	12-12-17	
3-Nitroaniline	ND	0.047	EPA 8270D	12-8-17	12-11-17	



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

SEMIVOLATILES EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S03						
Laboratory ID: 12-035-01						
2,4-Dinitrophenol	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Acenaphthene	1.4	0.047	EPA 8270D	12-8-17	12-11-17	
4-Nitrophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,4-Dinitrotoluene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Dibenzofuran	1.1	0.047	EPA 8270D	12-8-17	12-11-17	
2,3,5,6-Tetrachlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
2,3,4,6-Tetrachlorophenol	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Diethylphthalate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
4-Chlorophenyl-phenylether	ND	0.047	EPA 8270D	12-8-17	12-11-17	
4-Nitroaniline	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Fluorene	1.5	0.047	EPA 8270D	12-8-17	12-11-17	
4,6-Dinitro-2-methylphenol	ND	0.23	EPA 8270D	12-8-17	12-11-17	
n-Nitrosodiphenylamine	ND	0.047	EPA 8270D	12-8-17	12-11-17	
1,2-Diphenylhydrazine	ND	0.047	EPA 8270D	12-8-17	12-11-17	
4-Bromophenyl-phenylether	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Hexachlorobenzene	ND	0.047	EPA 8270D	12-8-17	12-11-17	
Pentachlorophenol	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Phenanthrene	2.4	0.047	EPA 8270D	12-8-17	12-11-17	
Anthracene	0.41	0.047	EPA 8270D	12-8-17	12-11-17	
Carbazole	0.16	0.047	EPA 8270D	12-8-17	12-11-17	
Di-n-butylphthalate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Fluoranthene	1.4	0.047	EPA 8270D	12-8-17	12-11-17	
Benzidine	ND	0.47	EPA 8270D	12-8-17	12-11-17	
Pyrene	0.94	0.047	EPA 8270D	12-8-17	12-11-17	
Butylbenzylphthalate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
bis-2-Ethylhexyladipate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
3,3'-Dichlorobenzidine	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Benzo[a]anthracene	0.39	0.047	EPA 8270D	12-8-17	12-11-17	
Chrysene	0.33	0.047	EPA 8270D	12-8-17	12-11-17	
bis(2-Ethylhexyl)phthalate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Di-n-octylphthalate	ND	0.23	EPA 8270D	12-8-17	12-11-17	
Benzo[b]fluoranthene	0.29	0.047	EPA 8270D	12-8-17	12-11-17	
Benzo(j,k)fluoranthene	0.082	0.047	EPA 8270D	12-8-17	12-11-17	
Benzo[a]pyrene	0.12	0.047	EPA 8270D	12-8-17	12-11-17	
Indeno[1,2,3-cd]pyrene	0.051	0.0094	EPA 8270D/SIM	12-8-17	12-12-17	
Dibenz[a,h]anthracene	0.017	0.0094	EPA 8270D/SIM	12-8-17	12-12-17	
Benzo[g,h,i]perylene	0.037	0.0094	EPA 8270D/SIM	12-8-17	12-12-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	49	18 - 113				
Phenol-d6	56	19 - 119				
Nitrobenzene-d5	65	19 - 119				
2-Fluorobiphenyl	59	33 - 109				
2,4,6-Tribromophenol	60	19 - 121				
Terphenyl-d14	59	30 - 116				



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

SEMIVOLATILES EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S04						
Laboratory ID: 12-035-02						
n-Nitrosodimethylamine	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Pyridine	ND	0.45	EPA 8270D	12-8-17	12-8-17	
Phenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Aniline	ND	0.22	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroethyl)ether	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Chlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,3-Dichlorobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,4-Dichlorobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Benzyl alcohol	ND	0.22	EPA 8270D	12-8-17	12-8-17	
1,2-Dichlorobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Methylphenol (o-Cresol)	ND	0.045	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroisopropyl)ether	ND	0.045	EPA 8270D	12-8-17	12-8-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.045	EPA 8270D	12-8-17	12-8-17	
n-Nitroso-di-n-propylamine	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Hexachloroethane	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Nitrobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Isophorone	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Nitrophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,4-Dimethylphenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroethoxy)methane	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,4-Dichlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,2,4-Trichlorobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Naphthalene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
4-Chloroaniline	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Hexachlorobutadiene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
4-Chloro-3-methylphenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Methylnaphthalene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
1-Methylnaphthalene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Hexachlorocyclopentadiene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,4,6-Trichlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,3-Dichloroaniline	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,4,5-Trichlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Chloronaphthalene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2-Nitroaniline	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,4-Dinitrobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Dimethylphthalate	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,3-Dinitrobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,6-Dinitrotoluene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,2-Dinitrobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Acenaphthylene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
3-Nitroaniline	ND	0.045	EPA 8270D	12-8-17	12-8-17	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S04						
Laboratory ID: 12-035-02						
2,4-Dinitrophenol	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Acenaphthene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
4-Nitrophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,4-Dinitrotoluene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Dibenzofuran	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,3,5,6-Tetrachlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
2,3,4,6-Tetrachlorophenol	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Diethylphthalate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
4-Chlorophenyl-phenylether	ND	0.045	EPA 8270D	12-8-17	12-8-17	
4-Nitroaniline	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Fluorene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270D	12-8-17	12-8-17	
n-Nitrosodiphenylamine	ND	0.045	EPA 8270D	12-8-17	12-8-17	
1,2-Diphenylhydrazine	ND	0.045	EPA 8270D	12-8-17	12-8-17	
4-Bromophenyl-phenylether	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Hexachlorobenzene	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Pentachlorophenol	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Phenanthrene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Anthracene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Carbazole	ND	0.045	EPA 8270D	12-8-17	12-8-17	
Di-n-butylphthalate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Fluoranthene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Benzidine	ND	0.45	EPA 8270D	12-8-17	12-8-17	
Pyrene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Butylbenzylphthalate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
bis-2-Ethylhexyladipate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Benzo[a]anthracene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Chrysene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
bis(2-Ethylhexyl)phthalate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Di-n-octylphthalate	ND	0.22	EPA 8270D	12-8-17	12-8-17	
Benzo[b]fluoranthene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo(j,k)fluoranthene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo[a]pyrene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Indeno[1,2,3-cd]pyrene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Dibenz[a,h]anthracene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo[g,h,i]perylene	ND	0.0090	EPA 8270D/SIM	12-8-17	12-8-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	57	18 - 113				
Phenol-d6	63	19 - 119				
Nitrobenzene-d5	69	19 - 119				
2-Fluorobiphenyl	60	33 - 109				
2,4,6-Tribromophenol	71	19 - 121				
Terphenyl-d14	61	30 - 116				



Date of Report: December 12, 2017
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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1208S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Pyridine	ND	0.33	EPA 8270D	12-8-17	12-8-17	
Phenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Aniline	ND	0.17	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Chlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Benzyl alcohol	ND	0.17	EPA 8270D	12-8-17	12-8-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-8-17	12-8-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-8-17	12-8-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Hexachloroethane	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Nitrobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Isophorone	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Nitrophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
4-Chloroaniline	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2-Nitroaniline	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Dimethylphthalate	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
3-Nitroaniline	ND	0.033	EPA 8270D	12-8-17	12-8-17	



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SEMIVOLATILES EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1208S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
4-Nitrophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Dibenzofuran	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Diethylphthalate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-8-17	12-8-17	
4-Nitroaniline	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-8-17	12-8-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-8-17	12-8-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-8-17	12-8-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Pentachlorophenol	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Carbazole	ND	0.033	EPA 8270D	12-8-17	12-8-17	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Benzidine	ND	0.33	EPA 8270D	12-8-17	12-8-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-8-17	12-8-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-8-17	12-8-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	83	18 - 113				
Phenol-d6	89	19 - 119				
Nitrobenzene-d5	92	19 - 119				
2-Fluorobiphenyl	91	33 - 109				
2,4,6-Tribromophenol	95	19 - 121				
Terphenyl-d14	90	30 - 116				



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 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**SEMIVOLATILES EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-004-21										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	0.993	1.08	1.33	1.33	ND	75	81	25 - 103	8	36	
2-Chlorophenol	0.941	1.03	1.33	1.33	ND	71	77	21 - 109	9	38	
1,4-Dichlorobenzene	0.442	0.498	0.667	0.667	ND	66	75	20 - 110	12	40	
n-Nitroso-di-n-propylamine	0.505	0.535	0.667	0.667	ND	76	80	20 - 111	6	38	
1,2,4-Trichlorobenzene	0.470	0.514	0.667	0.667	ND	70	77	20 - 107	9	40	
4-Chloro-3-methylphenol	1.05	1.11	1.33	1.33	ND	79	83	30 - 111	6	29	
Acenaphthene	0.505	0.502	0.667	0.667	ND	76	75	27 - 109	1	30	
4-Nitrophenol	1.13	1.12	1.33	1.33	ND	85	84	20 - 119	1	29	
2,4-Dinitrotoluene	0.484	0.477	0.667	0.667	ND	73	72	32 - 103	1	30	
Pentachlorophenol	1.17	1.16	1.33	1.33	ND	88	87	20 - 127	1	31	
Pyrene	0.509	0.509	0.667	0.667	ND	76	76	37 - 111	0	28	
Surrogate:											
2-Fluorophenol						74	84	18 - 113			
Phenol-d6						80	86	19 - 119			
Nitrobenzene-d5						83	88	19 - 119			
2-Fluorobiphenyl						80	82	33 - 109			
2,4,6-Tribromophenol						90	89	19 - 121			
Terphenyl-d14						82	83	30 - 116			



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
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PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: E320-EL111-171205-S03						
Laboratory ID: 12-035-01						
Aroclor 1016	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1221	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1232	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1242	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1248	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1254	ND	0.070	EPA 8082A	12-7-17	12-8-17	
Aroclor 1260	ND	0.070	EPA 8082A	12-7-17	12-8-17	

Surrogate: *Percent Recovery* *Control Limits*
DCB *64* *40-134*

Client ID: E320-EL111-171205-S04						
Laboratory ID: 12-035-02						
Aroclor 1016	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1221	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1232	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1242	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1248	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1254	ND	0.067	EPA 8082A	12-7-17	12-8-17	
Aroclor 1260	ND	0.067	EPA 8082A	12-7-17	12-8-17	

Surrogate: *Percent Recovery* *Control Limits*
DCB *62* *40-134*



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1221	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1232	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1242	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1248	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1254	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Aroclor 1260	ND	0.050	EPA 8082A	12-7-17	12-7-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	51	40-134				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	12-004-13									
	MS	MSD	MS	MSD		MS	MSD			
Aroclor 1260	0.397	0.434	0.500	0.500	ND	79	87	34-126	9	16
Surrogate:										
DCB						61	59	40-134		



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	Analyzed	Flags
Lab ID:	12-035-01					
Client ID:	E320-EL111-171205-S03					
Antimony	ND	7.0	6010C	12-11-17	12-11-17	
Arsenic	ND	14	6010C	12-11-17	12-11-17	
Beryllium	ND	0.70	6010C	12-11-17	12-11-17	
Cadmium	ND	0.70	6010C	12-11-17	12-11-17	
Chromium	26	0.70	6010C	12-11-17	12-11-17	
Copper	16	1.4	6010C	12-11-17	12-11-17	
Lead	ND	7.0	6010C	12-11-17	12-11-17	
Mercury	ND	0.35	7471B	12-11-17	12-11-17	
Nickel	30	3.5	6010C	12-11-17	12-11-17	
Selenium	ND	14	6010C	12-11-17	12-11-17	
Silver	ND	1.4	6010C	12-11-17	12-11-17	
Thallium	ND	3.5	6020A	12-11-17	12-11-17	
Zinc	32	3.5	6010C	12-11-17	12-11-17	



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

TOTAL METALS
EPA 6010C/6020A/7471B

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-035-02					
Client ID:	E320-EL111-171205-S04					
Antimony	ND	6.7	6010C	12-11-17	12-11-17	
Arsenic	ND	13	6010C	12-11-17	12-11-17	
Beryllium	ND	0.67	6010C	12-11-17	12-11-17	
Cadmium	ND	0.67	6010C	12-11-17	12-11-17	
Chromium	57	0.67	6010C	12-11-17	12-11-17	
Copper	30	1.3	6010C	12-11-17	12-11-17	
Lead	14	6.7	6010C	12-11-17	12-11-17	
Mercury	ND	0.34	7471B	12-11-17	12-11-17	
Nickel	52	3.4	6010C	12-11-17	12-11-17	
Selenium	ND	13	6010C	12-11-17	12-11-17	
Silver	ND	1.3	6010C	12-11-17	12-11-17	
Thallium	ND	3.4	6020A	12-11-17	12-11-17	
Zinc	86	3.4	6010C	12-11-17	12-11-17	



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-11-17
 Date Analyzed: 12-11-17

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB1211SH1

Analyte	Method	Result	PQL
Antimony	6010C	ND	5.0
Arsenic	6010C	ND	10
Beryllium	6010C	ND	0.50
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Copper	6010C	ND	1.0
Lead	6010C	ND	5.0
Nickel	6010C	ND	2.5
Selenium	6010C	ND	10
Silver	6010C	ND	1.0
Thallium	6020A	ND	2.5
Zinc	6010C	ND	2.5



Date of Report: December 12, 2017
Samples Submitted: December 5, 2017
Laboratory Reference: 1712-035
Project: 40300

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-11-17
Date Analyzed: 12-11-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1211S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A
 DUPLICATE QUALITY CONTROL**

Date Extracted: 12-11-17
 Date Analyzed: 12-11-17

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 12-035-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Antimony	ND	ND	NA	5.0	
Arsenic	ND	ND	NA	10	
Beryllium	ND	ND	NA	0.50	
Cadmium	ND	ND	NA	0.50	
Chromium	18.9	19.8	5	0.50	
Copper	11.4	12.9	13	1.0	
Lead	ND	5.15	NA	5.0	
Nickel	21.1	22.8	8	2.5	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	
Thallium	ND	ND	NA	2.5	
Zinc	22.7	24.9	9	2.5	



Date of Report: December 12, 2017
Samples Submitted: December 5, 2017
Laboratory Reference: 1712-035
Project: 40300

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-11-17
Date Analyzed: 12-11-17

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-003-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: December 12, 2017
 Samples Submitted: December 5, 2017
 Laboratory Reference: 1712-035
 Project: 40300

**TOTAL METALS
 EPA 6010C/6020A
 MS/MSD QUALITY CONTROL**

Date Extracted: 12-11-17

Date Analyzed: 12-11-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-035-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Antimony	100	87.7	88	86.7	87	1	
Arsenic	100	98.5	98	101	101	3	
Beryllium	50.0	47.6	95	48.6	97	2	
Cadmium	50.0	45.9	92	46.8	94	2	
Chromium	100	114	95	113	94	1	
Copper	50.0	61.3	100	63.6	105	4	
Lead	250	234	93	236	95	1	
Nickel	100	115	94	117	96	2	
Selenium	100	97.1	97	100	100	3	
Silver	25.0	22.4	90	23.0	92	3	
Thallium	50.0	43.0	86	44.3	89	3	
Zinc	100	117	95	121	99	3	



Date of Report: December 12, 2017
Samples Submitted: December 5, 2017
Laboratory Reference: 1712-035
Project: 40300

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 12-11-17

Date Analyzed: 12-11-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 12-003-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.541	108	0.535	107	1	



Date of Report: December 12, 2017
Samples Submitted: December 5, 2017
Laboratory Reference: 1712-035
Project: 40300

% MOISTURE

Date Analyzed: 12-6-17

Client ID	Lab ID	% Moisture
E320-EL111-171205-S03	12-035-01	29
E320-EL111-171205-S04	12-035-02	26





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Analytical Laboratory Testing Services
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Phone: (425) 883-3881 www.onsite-env.com

Chain of Custody

Page 1 of 1

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com									
Company: INNOVEX									
Project Number: 40300									
Project Name: E320									
Project Manager: Glenn Haywood									
Sampled by: Colin Doff									
Turnaround Request (in working days) (Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) (TPH analysis 5 Days) ☒ 5 Day (other)									
Number of Containers									
Laboratory Number: 12-035									
NWTPH-HCID with follow up									
NWTPH-Gx/BTEX									
NWTPH-Gx									
NWTPH-Dx (☐ Acid / SG Clean-up)									
Volatiles 8260C									
Halogenated Volatiles 8260C									
EDB EPA 8011 (Waters Only)									
Semivolatiles 8270D/SIM (with low-level PAHs)									
PAHs 8270D/SIM (low-level)									
PCBs 8082A									
Organochlorine Pesticides 8081B									
Organophosphorus Pesticides 8270D/SIM									
Chlorinated Acid Herbicides 8151A									
Total ~~PCRA~~ Metals PP									
Total MTCA Metals									
TCLP Metals									
HEM (oil and grease) 1664A									
Data Package: Standard ☒ Level III ☐ Level IV ☐									
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒									



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O'Neill Service Group

Brady Hanson
17619 NE 67th Court, Suite 100
Redmond, WA 98052

RE: E320

Work Order Number: 1706027

June 07, 2017

Attention Brady Hanson:

Fremont Analytical, Inc. received 13 sample(s) on 6/2/2017 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Hydrocarbon Identification by NWTPH-HCID
Mercury by EPA Method 7471
Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)
Sample Moisture (Percent Moisture)
Semi-Volatile Organic Compounds by EPA Method 8270
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

CLIENT: O'Neill Service Group
Project: E320
Work Order: 1706027

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706027-001	PR-TR-3-2	06/02/2017 10:20 AM	06/02/2017 2:24 PM
1706027-002	PR-TR-3-6-PLUG	06/02/2017 10:45 AM	06/02/2017 2:24 PM
1706027-003	PR-TR-3-8	06/02/2017 10:52 AM	06/02/2017 2:24 PM
1706027-004	PR-TR-2-2	06/02/2017 11:20 AM	06/02/2017 2:24 PM
1706027-005	PR-TR-2-12	06/02/2017 11:46 AM	06/02/2017 2:24 PM
1706027-006	PR-TP-1-2	06/02/2017 12:39 PM	06/02/2017 2:24 PM
1706027-007	PR-TP-1-10	06/02/2017 12:57 PM	06/02/2017 2:24 PM
1706027-008	PR-TR-3-4	06/02/2017 10:29 AM	06/02/2017 2:24 PM
1706027-009	PR-TR-2-4	06/02/2017 11:25 AM	06/02/2017 2:24 PM
1706027-010	PR-TR-2-6	06/02/2017 11:30 AM	06/02/2017 2:24 PM
1706027-011	PR-TR-2-8	06/02/2017 11:40 AM	06/02/2017 2:24 PM
1706027-012	PR-TP-1-4	06/02/2017 12:44 PM	06/02/2017 2:24 PM
1706027-013	PR-TP-1-6	06/02/2017 12:49 PM	06/02/2017 2:24 PM

CLIENT: O'Neill Service Group**Project:** E320

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:20:00 AM

Project: E320

Lab ID: 1706027-001

Matrix: Soil

Client Sample ID: PR-TR-3-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 17248

Analyst: SB

Diesel (Fuel Oil)	ND	19.5		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Heavy Oil	171	48.9		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Surr: 2-Fluorobiphenyl	96.0	50-150		%Rec	1	6/3/2017 12:57:40 AM
Surr: o-Terphenyl	94.3	50-150		%Rec	1	6/3/2017 12:57:40 AM

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	19.5		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Mineral Spirits	ND	29.3		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Kerosene	ND	48.9		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Diesel (Fuel Oil)	ND	48.9		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Heavy Oil	DETECT	97.7		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Mineral Oil	ND	97.7		mg/Kg-dry	1	6/3/2017 12:57:40 AM
Surr: 2-Fluorobiphenyl	96.0	50-150		%Rec	1	6/3/2017 12:57:40 AM
Surr: o-Terphenyl	94.3	50-150		%Rec	1	6/3/2017 12:57:40 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 17250

Analyst: BT

Naphthalene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
2-Methylnaphthalene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
1-Methylnaphthalene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Acenaphthylene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Acenaphthene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Fluorene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Phenanthrene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Anthracene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Fluoranthene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Pyrene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Benz(a)anthracene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Chrysene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Benzo(b)fluoranthene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Benzo(k)fluoranthene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Benzo(a)pyrene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Indeno(1,2,3-cd)pyrene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Dibenz(a,h)anthracene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Benzo(g,h,i)perylene	ND	38.1		µg/Kg-dry	1	6/2/2017 10:06:04 PM
Surr: 2-Fluorobiphenyl	66.3	24.5-139		%Rec	1	6/2/2017 10:06:04 PM
Surr: Terphenyl-d14 (surr)	74.3	44.3-176		%Rec	1	6/2/2017 10:06:04 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:20:00 AM

Project: E320

Lab ID: 1706027-001

Matrix: Soil

Client Sample ID: PR-TR-3-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0561	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
Chloromethane	ND	0.0561		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Vinyl chloride	ND	0.00187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Bromomethane	ND	0.0841	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
Trichlorofluoromethane (CFC-11)	ND	0.0467	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
Chloroethane	ND	0.0561	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1-Dichloroethene	ND	0.0467	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
Methylene chloride	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
trans-1,2-Dichloroethene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Methyl tert-butyl ether (MTBE)	ND	0.0467		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1-Dichloroethane	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
2,2-Dichloropropane	ND	0.0467	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM
cis-1,2-Dichloroethene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Chloroform	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1,1-Trichloroethane (TCA)	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1-Dichloropropene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Carbon tetrachloride	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2-Dichloroethane (EDC)	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Benzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Trichloroethene (TCE)	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2-Dichloropropane	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Bromodichloromethane	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Dibromomethane	ND	0.0374		mg/Kg-dry	1	6/6/2017 3:06:34 AM
cis-1,3-Dichloropropene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Toluene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
trans-1,3-Dichloropropylene	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1,2-Trichloroethane	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,3-Dichloropropane	ND	0.0467		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Tetrachloroethene (PCE)	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Dibromochloromethane	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2-Dibromoethane (EDB)	ND	0.00467		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Chlorobenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,1,1,2-Tetrachloroethane	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Ethylbenzene	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
m,p-Xylene	0.0263	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
o-Xylene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Styrene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Isopropylbenzene	ND	0.0748		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Bromoform	ND	0.0187	Q	mg/Kg-dry	1	6/6/2017 3:06:34 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:20:00 AM

Project: E320

Lab ID: 1706027-001

Matrix: Soil

Client Sample ID: PR-TR-3-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

1,1,2,2-Tetrachloroethane	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
n-Propylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Bromobenzene	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,3,5-Trimethylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
2-Chlorotoluene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
4-Chlorotoluene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
tert-Butylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2,3-Trichloropropane	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2,4-Trichlorobenzene	ND	0.0467		mg/Kg-dry	1	6/6/2017 3:06:34 AM
sec-Butylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
4-Isopropyltoluene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,3-Dichlorobenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,4-Dichlorobenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
n-Butylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2-Dichlorobenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2-Dibromo-3-chloropropane	ND	0.467		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2,4-Trimethylbenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Hexachlorobutadiene	ND	0.0935		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Naphthalene	ND	0.0280		mg/Kg-dry	1	6/6/2017 3:06:34 AM
1,2,3-Trichlorobenzene	ND	0.0187		mg/Kg-dry	1	6/6/2017 3:06:34 AM
Surr: Dibromofluoromethane	88.8	56.5-129		%Rec	1	6/6/2017 3:06:34 AM
Surr: Toluene-d8	63.1	64.5-151	S	%Rec	1	6/6/2017 3:06:34 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	63.1-141		%Rec	1	6/6/2017 3:06:34 AM

NOTES:

S - Outlying surrogate recovery(ies) observed. All other laboratory and field samples recovered within range.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	7.14	0.500		wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:45:00 AM

Project: E320

Lab ID: 1706027-002

Matrix: Soil

Client Sample ID: PR-TR-3-6-PLUG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 17248

Analyst: SB

Diesel (Fuel Oil)	ND	24.0		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Heavy Oil	ND	59.9		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Creosote	1,900	59.9		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Surr: 2-Fluorobiphenyl	112	50-150		%Rec	1	6/3/2017 1:29:29 AM
Surr: o-Terphenyl	105	50-150		%Rec	1	6/3/2017 1:29:29 AM

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	24.0		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Mineral Spirits	ND	36.0		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Kerosene	ND	59.9		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Diesel (Fuel Oil)	ND	59.9		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Heavy Oil	ND	120		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Mineral Oil	ND	120		mg/Kg-dry	1	6/3/2017 1:29:29 AM
Creosote	DETECT	120		-dry	1	6/3/2017 1:29:29 AM
Surr: 2-Fluorobiphenyl	112	50-150		%Rec	1	6/3/2017 1:29:29 AM
Surr: o-Terphenyl	105	50-150		%Rec	1	6/3/2017 1:29:29 AM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

Phenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Bis(2-chloroethyl) ether	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Chlorophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
1,3-Dichlorobenzene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
1,4-Dichlorobenzene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
1,2-Dichlorobenzene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Benzyl alcohol	ND	105	Q	µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Methylphenol (o-cresol)	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Hexachloroethane	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
N-Nitrosodi-n-propylamine	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Nitrobenzene	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Isophorone	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
3&4-Methylphenol (m, p-cresol)	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Nitrophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,4-Dimethylphenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Bis(2-chloroethoxy)methane	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,4-Dichlorophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
1,2,4-Trichlorobenzene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Naphthalene	19,700	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:45:00 AM

Project: E320

Lab ID: 1706027-002

Matrix: Soil

Client Sample ID: PR-TR-3-6-PLUG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

4-Chloroaniline	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Hexachlorobutadiene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
4-Chloro-3-methylphenol	ND	210		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Methylnaphthalene	23,300	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
1-Methylnaphthalene	11,100	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Hexachlorocyclopentadiene	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,4,6-Trichlorophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,4,5-Trichlorophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Chloronaphthalene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2-Nitroaniline	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Acenaphthene	59,900	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Dimethylphthalate	237	105	BQ	µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,6-Dinitrotoluene	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Acenaphthylene	481	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM
2,4-Dinitrophenol	ND	210		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Dibenzofuran	40,000	7,860	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
2,4-Dinitrotoluene	1,110	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
4-Nitrophenol	ND	524		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Fluorene	53,500	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
4-Chlorophenyl phenyl ether	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Diethylphthalate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
4,6-Dinitro-2-methylphenol	ND	210		µg/Kg-dry	1	6/6/2017 12:00:09 AM
4-Bromophenyl phenyl ether	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Hexachlorobenzene	ND	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Pentachlorophenol	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Phenanthrene	106,000	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Anthracene	8,790	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Carbazole	3,360	78.6		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Di-n-butylphthalate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Fluoranthene	55,300	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Pyrene	35,400	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Butyl Benzylphthalate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
bis(2-Ethylhexyl)adipate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Benz (a) anthracene	15,800	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Chrysene	16,100	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
bis (2-Ethylhexyl) phthalate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Di-n-octyl phthalate	ND	105		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Benzo (b) fluoranthene	10,500	5,240	D	µg/Kg-dry	100	6/6/2017 3:01:11 PM
Benzo (k) fluoranthene	2,600	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:45:00 AM

Project: E320

Lab ID: 1706027-002

Matrix: Soil

Client Sample ID: PR-TR-3-6-PLUG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

Benzo (a) pyrene	4,350	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Indeno (1,2,3-cd) pyrene	947	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Dibenz (a,h) anthracene	356	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Benzo (g,h,i) perylene	827	52.4		µg/Kg-dry	1	6/6/2017 12:00:09 AM
Surr: 2,4,6-Tribromophenol	69.1	11.1-127		%Rec	1	6/6/2017 12:00:09 AM
Surr: 2-Fluorobiphenyl	59.6	15-123		%Rec	1	6/6/2017 12:00:09 AM
Surr: Nitrobenzene-d5	56.9	10-133		%Rec	1	6/6/2017 12:00:09 AM
Surr: Phenol-d6	63.5	11.6-133		%Rec	1	6/6/2017 12:00:09 AM
Surr: p-Terphenyl	68.8	26.7-159		%Rec	1	6/6/2017 12:00:09 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0601	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
Chloromethane	ND	0.0601		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Vinyl chloride	ND	0.00200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Bromomethane	ND	0.0901	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
Trichlorofluoromethane (CFC-11)	ND	0.0501	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
Chloroethane	ND	0.0601	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1-Dichloroethene	ND	0.0501	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
Methylene chloride	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
trans-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Methyl tert-butyl ether (MTBE)	ND	0.0501		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1-Dichloroethane	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
2,2-Dichloropropane	ND	0.0501	Q	mg/Kg-dry	1	6/6/2017 10:42:23 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Chloroform	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1,1-Trichloroethane (TCA)	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1-Dichloropropene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Carbon tetrachloride	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2-Dichloroethane (EDC)	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Benzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2-Dichloropropane	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Bromodichloromethane	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Dibromomethane	ND	0.0401		mg/Kg-dry	1	6/6/2017 10:42:23 AM
cis-1,3-Dichloropropene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM



Analytical Report

Work Order: 1706027

Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:45:00 AM

Project: E320

Lab ID: 1706027-002

Matrix: Soil

Client Sample ID: PR-TR-3-6-PLUG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Toluene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
trans-1,3-Dichloropropylene	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1,2-Trichloroethane	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,3-Dichloropropane	ND	0.0501		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Tetrachloroethene (PCE)	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Dibromochloromethane	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2-Dibromoethane (EDB)	ND	0.00501		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Chlorobenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1,1,2-Tetrachloroethane	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Ethylbenzene	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
m,p-Xylene	0.0444	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
o-Xylene	0.0226	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Styrene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Isopropylbenzene	ND	0.0801		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Bromoform	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,1,2,2-Tetrachloroethane	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
n-Propylbenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Bromobenzene	ND	0.0300		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,3,5-Trimethylbenzene	0.0663	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
2-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
4-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
tert-Butylbenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2,3-Trichloropropane	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2,4-Trichlorobenzene	ND	0.0501		mg/Kg-dry	1	6/6/2017 10:42:23 AM
sec-Butylbenzene	0.0599	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
4-Isopropyltoluene	0.0810	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,3-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,4-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
n-Butylbenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2-Dibromo-3-chloropropane	ND	0.501		mg/Kg-dry	1	6/6/2017 10:42:23 AM
1,2,4-Trimethylbenzene	0.129	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Hexachlorobutadiene	ND	0.100		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Naphthalene	27.5	0.601	D	mg/Kg-dry	20	6/6/2017 8:19:40 AM
1,2,3-Trichlorobenzene	ND	0.0200		mg/Kg-dry	1	6/6/2017 10:42:23 AM
Surr: Dibromofluoromethane	88.1	56.5-129		%Rec	1	6/6/2017 10:42:23 AM
Surr: Toluene-d8	99.5	64.5-151		%Rec	1	6/6/2017 10:42:23 AM
Surr: 1-Bromo-4-fluorobenzene	104	63.1-141		%Rec	1	6/6/2017 10:42:23 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:45:00 AM

Project: E320

Lab ID: 1706027-002

Matrix: Soil

Client Sample ID: PR-TR-3-6-PLUG

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Mercury by EPA Method 7471

Batch ID: 17256

Analyst: WF

Mercury	ND	0.281		mg/Kg-dry	1	6/6/2017 5:19:00 PM

Total Metals by EPA Method 6020

Batch ID: 17261

Analyst: TN

Arsenic	4.00	0.0938		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Barium	106	0.469		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Cadmium	ND	0.188		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Chromium	45.0	0.0938		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Lead	18.5	0.188		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Selenium	1.15	0.469		mg/Kg-dry	1	6/5/2017 2:48:20 PM
Silver	ND	0.0938		mg/Kg-dry	1	6/5/2017 2:48:20 PM

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	19.2	0.500		wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:52:00 AM

Project: E320

Lab ID: 1706027-003

Matrix: Soil

Client Sample ID: PR-TR-3-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	22.9		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Mineral Spirits	ND	34.4		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Kerosene	ND	57.4		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Diesel (Fuel Oil)	ND	57.4		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Heavy Oil	ND	115		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Mineral Oil	ND	115		mg/Kg-dry	1	6/3/2017 2:33:12 AM
Surr: 2-Fluorobiphenyl	87.3	50-150		%Rec	1	6/3/2017 2:33:12 AM
Surr: o-Terphenyl	85.1	50-150		%Rec	1	6/3/2017 2:33:12 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 17250

Analyst: BT

Naphthalene	1,960	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
2-Methylnaphthalene	3,310	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
1-Methylnaphthalene	1,790	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Acenaphthylene	90.4	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Acenaphthene	7,950	452	D	µg/Kg-dry	10	6/6/2017 12:22:06 AM
Fluorene	8,210	452	D	µg/Kg-dry	10	6/6/2017 12:22:06 AM
Phenanthrene	14,300	452	D	µg/Kg-dry	10	6/6/2017 12:22:06 AM
Anthracene	1,360	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Fluoranthene	9,400	452	D	µg/Kg-dry	10	6/6/2017 12:22:06 AM
Pyrene	6,100	452	D	µg/Kg-dry	10	6/6/2017 12:22:06 AM
Benz(a)anthracene	2,770	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Chrysene	1,490	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Benzo(b)fluoranthene	2,420	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Benzo(k)fluoranthene	821	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Benzo(a)pyrene	1,010	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Indeno(1,2,3-cd)pyrene	241	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Dibenz(a,h)anthracene	112	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Benzo(g,h,i)perylene	191	45.2		µg/Kg-dry	1	6/2/2017 10:28:09 PM
Surr: 2-Fluorobiphenyl	56.4	24.5-139		%Rec	1	6/2/2017 10:28:09 PM
Surr: Terphenyl-d14 (surr)	65.0	44.3-176		%Rec	1	6/2/2017 10:28:09 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0682	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
Chloromethane	ND	0.0682		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Vinyl chloride	ND	0.00227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Bromomethane	ND	0.102	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
Trichlorofluoromethane (CFC-11)	ND	0.0568	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:52:00 AM

Project: E320

Lab ID: 1706027-003

Matrix: Soil

Client Sample ID: PR-TR-3-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Chloroethane	ND	0.0682	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1-Dichloroethene	ND	0.0568	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
Methylene chloride	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
trans-1,2-Dichloroethene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Methyl tert-butyl ether (MTBE)	ND	0.0568		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1-Dichloroethane	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
2,2-Dichloropropane	ND	0.0568	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
cis-1,2-Dichloroethene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Chloroform	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1,1-Trichloroethane (TCA)	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1-Dichloropropene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Carbon tetrachloride	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2-Dichloroethane (EDC)	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Benzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Trichloroethene (TCE)	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2-Dichloropropane	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Bromodichloromethane	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Dibromomethane	ND	0.0455		mg/Kg-dry	1	6/6/2017 12:37:07 PM
cis-1,3-Dichloropropene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Toluene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
trans-1,3-Dichloropropylene	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1,2-Trichloroethane	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,3-Dichloropropane	ND	0.0568		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Tetrachloroethene (PCE)	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Dibromochloromethane	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2-Dibromoethane (EDB)	ND	0.00568		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Chlorobenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1,1,2-Tetrachloroethane	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Ethylbenzene	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
m,p-Xylene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
o-Xylene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Styrene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Isopropylbenzene	ND	0.0909		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Bromoform	ND	0.0227	Q	mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,1,2,2-Tetrachloroethane	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
n-Propylbenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Bromobenzene	ND	0.0341		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,3,5-Trimethylbenzene	0.0362	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
2-Chlorotoluene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 10:52:00 AM

Project: E320

Lab ID: 1706027-003

Matrix: Soil

Client Sample ID: PR-TR-3-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

4-Chlorotoluene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
tert-Butylbenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2,3-Trichloropropane	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2,4-Trichlorobenzene	ND	0.0568		mg/Kg-dry	1	6/6/2017 12:37:07 PM
sec-Butylbenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
4-Isopropyltoluene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,3-Dichlorobenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,4-Dichlorobenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
n-Butylbenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2-Dichlorobenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2-Dibromo-3-chloropropane	ND	0.568		mg/Kg-dry	1	6/6/2017 12:37:07 PM
1,2,4-Trimethylbenzene	0.0419	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Hexachlorobutadiene	ND	0.114		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Naphthalene	4.27	0.341	D	mg/Kg-dry	10	6/6/2017 6:02:54 PM
1,2,3-Trichlorobenzene	ND	0.0227		mg/Kg-dry	1	6/6/2017 12:37:07 PM
Surr: Dibromofluoromethane	91.5	56.5-129		%Rec	1	6/6/2017 12:37:07 PM
Surr: Toluene-d8	97.8	64.5-151		%Rec	1	6/6/2017 12:37:07 PM
Surr: 1-Bromo-4-fluorobenzene	101	63.1-141		%Rec	1	6/6/2017 12:37:07 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	20.3	0.500		wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:20:00 AM

Project: E320

Lab ID: 1706027-004

Matrix: Soil

Client Sample ID: PR-TR-2-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	20.6		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Mineral Spirits	ND	30.9		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Kerosene	ND	51.6		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Diesel (Fuel Oil)	ND	51.6		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Heavy Oil	ND	103		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Mineral Oil	ND	103		mg/Kg-dry	1	6/3/2017 3:05:02 AM
Surr: 2-Fluorobiphenyl	104	50-150		%Rec	1	6/3/2017 3:05:02 AM
Surr: o-Terphenyl	99.4	50-150		%Rec	1	6/3/2017 3:05:02 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 17250

Analyst: BT

Naphthalene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
2-Methylnaphthalene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
1-Methylnaphthalene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Acenaphthylene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Acenaphthene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Fluorene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Phenanthrene	84.5	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Anthracene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Fluoranthene	65.4	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Pyrene	44.5	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Benz(a)anthracene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Chrysene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Benzo(b)fluoranthene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Benzo(k)fluoranthene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Benzo(a)pyrene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Indeno(1,2,3-cd)pyrene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Dibenz(a,h)anthracene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Benzo(g,h,i)perylene	ND	37.2		µg/Kg-dry	1	6/2/2017 10:50:20 PM
Surr: 2-Fluorobiphenyl	61.9	24.5-139		%Rec	1	6/2/2017 10:50:20 PM
Surr: Terphenyl-d14 (surr)	76.6	44.3-176		%Rec	1	6/2/2017 10:50:20 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0639	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
Chloromethane	ND	0.0639		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Vinyl chloride	ND	0.00213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Bromomethane	ND	0.0958	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
Trichlorofluoromethane (CFC-11)	ND	0.0532	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:20:00 AM

Project: E320

Lab ID: 1706027-004

Matrix: Soil

Client Sample ID: PR-TR-2-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Chloroethane	ND	0.0639	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1-Dichloroethene	ND	0.0532	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
Methylene chloride	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
trans-1,2-Dichloroethene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Methyl tert-butyl ether (MTBE)	ND	0.0532		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1-Dichloroethane	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
2,2-Dichloropropane	ND	0.0532	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
cis-1,2-Dichloroethene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Chloroform	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1,1-Trichloroethane (TCA)	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1-Dichloropropene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Carbon tetrachloride	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2-Dichloroethane (EDC)	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Benzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Trichloroethene (TCE)	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2-Dichloropropane	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Bromodichloromethane	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Dibromomethane	ND	0.0426		mg/Kg-dry	1	6/6/2017 3:35:05 AM
cis-1,3-Dichloropropene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Toluene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
trans-1,3-Dichloropropylene	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1,2-Trichloroethane	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,3-Dichloropropane	ND	0.0532		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Tetrachloroethene (PCE)	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Dibromochloromethane	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2-Dibromoethane (EDB)	ND	0.00532		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Chlorobenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1,1,2-Tetrachloroethane	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Ethylbenzene	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
m,p-Xylene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
o-Xylene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Styrene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Isopropylbenzene	ND	0.0852		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Bromoform	ND	0.0213	Q	mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,1,2,2-Tetrachloroethane	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
n-Propylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Bromobenzene	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,3,5-Trimethylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
2-Chlorotoluene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:20:00 AM

Project: E320

Lab ID: 1706027-004

Matrix: Soil

Client Sample ID: PR-TR-2-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

4-Chlorotoluene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
tert-Butylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2,3-Trichloropropane	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2,4-Trichlorobenzene	ND	0.0532		mg/Kg-dry	1	6/6/2017 3:35:05 AM
sec-Butylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
4-Isopropyltoluene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,3-Dichlorobenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,4-Dichlorobenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
n-Butylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2-Dichlorobenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2-Dibromo-3-chloropropane	ND	0.532		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2,4-Trimethylbenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Hexachlorobutadiene	ND	0.106		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Naphthalene	ND	0.0319		mg/Kg-dry	1	6/6/2017 3:35:05 AM
1,2,3-Trichlorobenzene	ND	0.0213		mg/Kg-dry	1	6/6/2017 3:35:05 AM
Surr: Dibromofluoromethane	86.6	56.5-129		%Rec	1	6/6/2017 3:35:05 AM
Surr: Toluene-d8	72.9	64.5-151		%Rec	1	6/6/2017 3:35:05 AM
Surr: 1-Bromo-4-fluorobenzene	98.5	63.1-141		%Rec	1	6/6/2017 3:35:05 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	7.38	0.500		wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:46:00 AM

Project: E320

Lab ID: 1706027-005

Matrix: Soil

Client Sample ID: PR-TR-2-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	20.0		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Mineral Spirits	ND	30.1		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Kerosene	ND	50.1		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Diesel (Fuel Oil)	ND	50.1		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Heavy Oil	ND	100		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Mineral Oil	ND	100		mg/Kg-dry	1	6/3/2017 4:08:40 AM
Surr: 2-Fluorobiphenyl	91.2	50-150		%Rec	1	6/3/2017 4:08:40 AM
Surr: o-Terphenyl	92.0	50-150		%Rec	1	6/3/2017 4:08:40 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 17250

Analyst: BT

Naphthalene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
2-Methylnaphthalene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
1-Methylnaphthalene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Acenaphthylene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Acenaphthene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Fluorene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Phenanthrene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Anthracene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Fluoranthene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Pyrene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Benz(a)anthracene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Chrysene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Benzo(b)fluoranthene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Benzo(k)fluoranthene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Benzo(a)pyrene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Indeno(1,2,3-cd)pyrene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Dibenz(a,h)anthracene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Benzo(g,h,i)perylene	ND	43.3		µg/Kg-dry	1	6/2/2017 11:12:23 PM
Surr: 2-Fluorobiphenyl	55.5	24.5-139		%Rec	1	6/2/2017 11:12:23 PM
Surr: Terphenyl-d14 (surr)	64.5	44.3-176		%Rec	1	6/2/2017 11:12:23 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0569	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
Chloromethane	ND	0.0569		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Vinyl chloride	ND	0.00190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Bromomethane	ND	0.0854	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
Trichlorofluoromethane (CFC-11)	ND	0.0474	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:46:00 AM

Project: E320

Lab ID: 1706027-005

Matrix: Soil

Client Sample ID: PR-TR-2-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Chloroethane	ND	0.0569	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1-Dichloroethene	ND	0.0474	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
Methylene chloride	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
trans-1,2-Dichloroethene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Methyl tert-butyl ether (MTBE)	ND	0.0474		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1-Dichloroethane	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
2,2-Dichloropropane	ND	0.0474	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
cis-1,2-Dichloroethene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Chloroform	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1,1-Trichloroethane (TCA)	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1-Dichloropropene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Carbon tetrachloride	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2-Dichloroethane (EDC)	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Benzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Trichloroethene (TCE)	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2-Dichloropropane	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Bromodichloromethane	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Dibromomethane	ND	0.0380		mg/Kg-dry	1	6/6/2017 4:03:30 AM
cis-1,3-Dichloropropene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Toluene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
trans-1,3-Dichloropropylene	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1,2-Trichloroethane	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,3-Dichloropropane	ND	0.0474		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Tetrachloroethene (PCE)	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Dibromochloromethane	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2-Dibromoethane (EDB)	ND	0.00474		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Chlorobenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1,1,2-Tetrachloroethane	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Ethylbenzene	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
m,p-Xylene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
o-Xylene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Styrene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Isopropylbenzene	ND	0.0759		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Bromoform	ND	0.0190	Q	mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,1,2,2-Tetrachloroethane	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
n-Propylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Bromobenzene	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,3,5-Trimethylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
2-Chlorotoluene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 11:46:00 AM

Project: E320

Lab ID: 1706027-005

Matrix: Soil

Client Sample ID: PR-TR-2-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

4-Chlorotoluene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
tert-Butylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2,3-Trichloropropane	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2,4-Trichlorobenzene	ND	0.0474		mg/Kg-dry	1	6/6/2017 4:03:30 AM
sec-Butylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
4-Isopropyltoluene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,3-Dichlorobenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,4-Dichlorobenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
n-Butylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2-Dichlorobenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2-Dibromo-3-chloropropane	ND	0.474		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2,4-Trimethylbenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Hexachlorobutadiene	ND	0.0949		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Naphthalene	ND	0.0285		mg/Kg-dry	1	6/6/2017 4:03:30 AM
1,2,3-Trichlorobenzene	ND	0.0190		mg/Kg-dry	1	6/6/2017 4:03:30 AM
Surr: Dibromofluoromethane	81.9	56.5-129		%Rec	1	6/6/2017 4:03:30 AM
Surr: Toluene-d8	93.5	64.5-151		%Rec	1	6/6/2017 4:03:30 AM
Surr: 1-Bromo-4-fluorobenzene	91.0	63.1-141		%Rec	1	6/6/2017 4:03:30 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	12.3	0.500		wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:39:00 PM

Project: E320

Lab ID: 1706027-006

Matrix: Soil

Client Sample ID: PR-TP-1-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	21.0		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Mineral Spirits	ND	31.5		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Kerosene	ND	52.4		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Diesel (Fuel Oil)	ND	52.4		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Heavy Oil	ND	105		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Mineral Oil	ND	105		mg/Kg-dry	1	6/3/2017 4:40:27 AM
Surr: 2-Fluorobiphenyl	101	50-150		%Rec	1	6/3/2017 4:40:27 AM
Surr: o-Terphenyl	96.2	50-150		%Rec	1	6/3/2017 4:40:27 AM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

Phenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Bis(2-chloroethyl) ether	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2-Chlorophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
1,3-Dichlorobenzene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
1,4-Dichlorobenzene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
1,2-Dichlorobenzene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benzyl alcohol	ND	106	Q	µg/Kg-dry	1	6/5/2017 10:31:45 PM
2-Methylphenol (o-cresol)	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Hexachloroethane	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
N-Nitrosodi-n-propylamine	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Nitrobenzene	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Isophorone	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
3&4-Methylphenol (m, p-cresol)	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2-Nitrophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4-Dimethylphenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Bis(2-chloroethoxy)methane	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4-Dichlorophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
1,2,4-Trichlorobenzene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Naphthalene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4-Chloroaniline	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Hexachlorobutadiene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4-Chloro-3-methylphenol	ND	212		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2-Methylnaphthalene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
1-Methylnaphthalene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Hexachlorocyclopentadiene	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4,6-Trichlorophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4,5-Trichlorophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2-Chloronaphthalene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:39:00 PM

Project: E320

Lab ID: 1706027-006

Matrix: Soil

Client Sample ID: PR-TP-1-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

2-Nitroaniline	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Acenaphthene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Dimethylphthalate	270	106	BQ	µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,6-Dinitrotoluene	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Acenaphthylene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4-Dinitrophenol	ND	212		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Dibenzofuran	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
2,4-Dinitrotoluene	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4-Nitrophenol	ND	529		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Fluorene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4-Chlorophenyl phenyl ether	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Diethylphthalate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4,6-Dinitro-2-methylphenol	ND	212		µg/Kg-dry	1	6/5/2017 10:31:45 PM
4-Bromophenyl phenyl ether	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Hexachlorobenzene	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Pentachlorophenol	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Phenanthrene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Anthracene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Carbazole	ND	79.4		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Di-n-butylphthalate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Fluoranthene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Pyrene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Butyl Benzylphthalate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
bis(2-Ethylhexyl)adipate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benz (a) anthracene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Chrysene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
bis (2-Ethylhexyl) phthalate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Di-n-octyl phthalate	ND	106		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benzo (b) fluoranthene	ND	52.9	Q	µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benzo (k) fluoranthene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benzo (a) pyrene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Indeno (1,2,3-cd) pyrene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Dibenz (a,h) anthracene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Benzo (g,h,i) perylene	ND	52.9		µg/Kg-dry	1	6/5/2017 10:31:45 PM
Surr: 2,4,6-Tribromophenol	82.1	11.1-127		%Rec	1	6/5/2017 10:31:45 PM
Surr: 2-Fluorobiphenyl	55.2	15-123		%Rec	1	6/5/2017 10:31:45 PM
Surr: Nitrobenzene-d5	49.5	10-133		%Rec	1	6/5/2017 10:31:45 PM
Surr: Phenol-d6	75.9	11.6-133		%Rec	1	6/5/2017 10:31:45 PM
Surr: p-Terphenyl	69.1	26.7-159		%Rec	1	6/5/2017 10:31:45 PM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:39:00 PM

Project: E320

Lab ID: 1706027-006

Matrix: Soil

Client Sample ID: PR-TP-1-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17262

Analyst: SG

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0627	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
Chloromethane	ND	0.0627		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Vinyl chloride	ND	0.00209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Bromomethane	ND	0.0941	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
Trichlorofluoromethane (CFC-11)	ND	0.0523	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
Chloroethane	ND	0.0627	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1-Dichloroethene	ND	0.0523	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
Methylene chloride	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
trans-1,2-Dichloroethene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Methyl tert-butyl ether (MTBE)	ND	0.0523		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1-Dichloroethane	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
2,2-Dichloropropane	ND	0.0523	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
cis-1,2-Dichloroethene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Chloroform	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1,1-Trichloroethane (TCA)	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1-Dichloropropene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Carbon tetrachloride	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2-Dichloroethane (EDC)	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Benzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Trichloroethene (TCE)	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2-Dichloropropane	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Bromodichloromethane	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Dibromomethane	ND	0.0418		mg/Kg-dry	1	6/6/2017 4:32:02 AM
cis-1,3-Dichloropropene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Toluene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
trans-1,3-Dichloropropylene	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1,2-Trichloroethane	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,3-Dichloropropane	ND	0.0523		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Tetrachloroethene (PCE)	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Dibromochloromethane	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2-Dibromoethane (EDB)	ND	0.00523		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Chlorobenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1,1,2-Tetrachloroethane	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:39:00 PM

Project: E320

Lab ID: 1706027-006

Matrix: Soil

Client Sample ID: PR-TP-1-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Ethylbenzene	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
m,p-Xylene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
o-Xylene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Styrene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Isopropylbenzene	ND	0.0836		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Bromoform	ND	0.0209	Q	mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,1,2,2-Tetrachloroethane	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
n-Propylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Bromobenzene	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,3,5-Trimethylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
2-Chlorotoluene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
4-Chlorotoluene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
tert-Butylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2,3-Trichloropropane	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2,4-Trichlorobenzene	ND	0.0523		mg/Kg-dry	1	6/6/2017 4:32:02 AM
sec-Butylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
4-Isopropyltoluene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,3-Dichlorobenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,4-Dichlorobenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
n-Butylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2-Dichlorobenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2-Dibromo-3-chloropropane	ND	0.523		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2,4-Trimethylbenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Hexachlorobutadiene	ND	0.105		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Naphthalene	ND	0.0314		mg/Kg-dry	1	6/6/2017 4:32:02 AM
1,2,3-Trichlorobenzene	ND	0.0209		mg/Kg-dry	1	6/6/2017 4:32:02 AM
Surr: Dibromofluoromethane	83.5	56.5-129		%Rec	1	6/6/2017 4:32:02 AM
Surr: Toluene-d8	79.4	64.5-151		%Rec	1	6/6/2017 4:32:02 AM
Surr: 1-Bromo-4-fluorobenzene	96.3	63.1-141		%Rec	1	6/6/2017 4:32:02 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	7.48	0.500	wt%	1	6/5/2017 8:13:47 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:57:00 PM

Project: E320

Lab ID: 1706027-007

Matrix: Soil

Client Sample ID: PR-TP-1-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17248

Analyst: SB

Gasoline	ND	19.2		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Mineral Spirits	ND	28.9		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Kerosene	ND	48.1		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Diesel (Fuel Oil)	ND	48.1		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Heavy Oil	ND	96.2		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Mineral Oil	ND	96.2		mg/Kg-dry	1	6/3/2017 5:12:17 AM
Surr: 2-Fluorobiphenyl	91.4	50-150		%Rec	1	6/3/2017 5:12:17 AM
Surr: o-Terphenyl	92.5	50-150		%Rec	1	6/3/2017 5:12:17 AM

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 17250

Analyst: BT

Naphthalene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
2-Methylnaphthalene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
1-Methylnaphthalene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Acenaphthylene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Acenaphthene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Fluorene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Phenanthrene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Anthracene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Fluoranthene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Pyrene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Benz(a)anthracene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Chrysene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Benzo(b)fluoranthene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Benzo(k)fluoranthene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Benzo(a)pyrene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Indeno(1,2,3-cd)pyrene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Dibenz(a,h)anthracene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Benzo(g,h,i)perylene	ND	42.2		µg/Kg-dry	1	6/2/2017 11:34:23 PM
Surr: 2-Fluorobiphenyl	42.3	24.5-139		%Rec	1	6/2/2017 11:34:23 PM
Surr: Terphenyl-d14 (surr)	56.9	44.3-176		%Rec	1	6/2/2017 11:34:23 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0673	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
Chloromethane	ND	0.0673		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Vinyl chloride	ND	0.00224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Bromomethane	ND	0.101	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
Trichlorofluoromethane (CFC-11)	ND	0.0561	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:57:00 PM

Project: E320

Lab ID: 1706027-007

Matrix: Soil

Client Sample ID: PR-TP-1-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

Chloroethane	ND	0.0673	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1-Dichloroethene	ND	0.0561	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
Methylene chloride	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
trans-1,2-Dichloroethene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Methyl tert-butyl ether (MTBE)	ND	0.0561		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1-Dichloroethane	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
2,2-Dichloropropane	ND	0.0561	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
cis-1,2-Dichloroethene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Chloroform	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1,1-Trichloroethane (TCA)	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1-Dichloropropene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Carbon tetrachloride	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2-Dichloroethane (EDC)	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Benzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Trichloroethene (TCE)	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2-Dichloropropane	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Bromodichloromethane	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Dibromomethane	ND	0.0449		mg/Kg-dry	1	6/6/2017 5:00:31 AM
cis-1,3-Dichloropropene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Toluene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
trans-1,3-Dichloropropylene	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1,2-Trichloroethane	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,3-Dichloropropane	ND	0.0561		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Tetrachloroethene (PCE)	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Dibromochloromethane	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2-Dibromoethane (EDB)	ND	0.00561		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Chlorobenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1,1,2-Tetrachloroethane	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Ethylbenzene	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
m,p-Xylene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
o-Xylene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Styrene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Isopropylbenzene	ND	0.0897		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Bromoform	ND	0.0224	Q	mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,1,2,2-Tetrachloroethane	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
n-Propylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Bromobenzene	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,3,5-Trimethylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
2-Chlorotoluene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM



Analytical Report

Work Order: 1706027
Date Reported: 6/7/2017

Client: O'Neill Service Group

Collection Date: 6/2/2017 12:57:00 PM

Project: E320

Lab ID: 1706027-007

Matrix: Soil

Client Sample ID: PR-TP-1-10

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17265

Analyst: NG

4-Chlorotoluene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
tert-Butylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2,3-Trichloropropane	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2,4-Trichlorobenzene	ND	0.0561		mg/Kg-dry	1	6/6/2017 5:00:31 AM
sec-Butylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
4-Isopropyltoluene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,3-Dichlorobenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,4-Dichlorobenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
n-Butylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2-Dichlorobenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2-Dibromo-3-chloropropane	ND	0.561		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2,4-Trimethylbenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Hexachlorobutadiene	ND	0.112		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Naphthalene	ND	0.0337		mg/Kg-dry	1	6/6/2017 5:00:31 AM
1,2,3-Trichlorobenzene	ND	0.0224		mg/Kg-dry	1	6/6/2017 5:00:31 AM
Surr: Dibromofluoromethane	87.8	56.5-129		%Rec	1	6/6/2017 5:00:31 AM
Surr: Toluene-d8	109	64.5-151		%Rec	1	6/6/2017 5:00:31 AM
Surr: 1-Bromo-4-fluorobenzene	92.0	63.1-141		%Rec	1	6/6/2017 5:00:31 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample Moisture (Percent Moisture)

Batch ID: R36583

Analyst: BB

Percent Moisture	12.4	0.500		wt%	1	6/5/2017 8:13:47 AM



Date: 6/7/2017

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID	MB-17261	SampType:	MBLK			Units:	mg/Kg			Prep Date:	6/5/2017			RunNo:	36602		
Client ID:	MBLKS	Batch ID:	17261			Analysis Date:					6/5/2017			SeqNo:	702603		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				
Arsenic		ND	0.0781														
Barium		ND	0.391														
Cadmium		ND	0.156														
Chromium		ND	0.0781														
Lead		ND	0.156														
Selenium		ND	0.391														
Silver		ND	0.0781														

Sample ID	LCS-17261	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/5/2017			RunNo:	36602	
Client ID:	LCSS	Batch ID:	17261				Analysis Date:	6/5/2017			SeqNo:	702604
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Arsenic	36.9	0.0787	39.37	0	93.8	80	120					
Barium	40.3	0.394	39.37	0	102	80	120					
Cadmium	1.88	0.157	1.969	0	95.7	80	120					
Chromium	38.8	0.0787	39.37	0	98.5	80	120					
Lead	20.5	0.157	19.69	0	104	80	120					
Selenium	3.45	0.394	3.937	0	87.5	80	120					
Silver	9.50	0.0787	9.843	0	96.6	80	120					

Sample ID	1706027-002ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36602		
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17261			Analysis Date:	6/5/2017	SeqNo:	702606		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.53	0.0938						3.998	12.4	20	
Barium	106	0.469						105.9	0.0713	20	
Cadmium	ND	0.188						0		20	
Chromium	50.1	0.0938						45.03	10.6	20	
Lead	15.8	0.188						18.53	16.1	20	
Selenium	0.935	0.469						1.152	20.8	20	

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Total Metals by EPA Method 6020

Sample ID	1706027-002ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36602			
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17261			Analysis Date:	6/5/2017	SeqNo:	702606			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver		ND	0.0938						0		20	

Sample ID	1706027-002AMS	SampType:	MS			Units:	mg/Kg-dry			Prep Date:	6/5/2017			RunNo:	36602		
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17261							Analysis Date:	6/5/2017			SeqNo:	702608		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				
Arsenic		49.3	0.0938	46.90	3.998	96.5	75	125									
Barium		152	0.469	46.90	105.9	99.0	75	125									
Cadmium		2.61	0.188	2.345	0.1035	107	75	125									
Chromium		94.0	0.0938	46.90	45.03	105	75	125									
Lead		40.2	0.188	23.45	18.53	92.3	75	125									
Selenium		5.74	0.469	4.690	1.152	97.9	75	125									
Silver		9.80	0.0938	11.72	0.04915	83.2	75	125									

Sample ID	1706027-002AMSD	SampType:	MSD			Units:	mg/Kg-dry			Prep Date:	6/5/2017			RunNo:	36602		
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17261						Analysis Date:	6/5/2017			SeqNo:	702609			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				
Arsenic		51.0	0.0938	46.90	3.998	100	75	125	49.26		3.53	20					
Barium		148	0.469	46.90	105.9	90.7	75	125	152.3		2.60	20					
Cadmium		2.65	0.188	2.345	0.1035	109	75	125	2.610		1.53	20					
Chromium		101	0.0938	46.90	45.03	119	75	125	94.04		6.86	20					
Lead		40.4	0.188	23.45	18.53	93.1	75	125	40.16		0.488	20					
Selenium		5.97	0.469	4.690	1.152	103	75	125	5.741		3.99	20					
Silver		9.68	0.0938	11.72	0.04915	82.1	75	125	9.802		1.27	20					

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Mercury by EPA Method 7471

Sample ID	MB-17256	SampType:	MBLK			Units:	mg/Kg			Prep Date:	6/2/2017			RunNo:	36548		
Client ID:	MBLKS	Batch ID:	17256			Analysis Date:					6/5/2017			SeqNo:	702370		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				

Mercury ND 0.250

Sample ID	LCS-17256	SampType: LCS			Units: mg/Kg		Prep Date: 6/2/2017			RunNo: 36548		
Client ID:	LCSS	Batch ID: 17256			Analysis Date: 6/5/2017					SeqNo: 702371		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury 0.422 0.250 0.5000 0 84.4 80 120

Sample ID	1705319-003ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36548		
Client ID:	BATCH	Batch ID:	17256			Analysis Date:	6/6/2017	SeqNo:	702373		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.292 0 20

Sample ID	1705319-003AMS	SampType: MS			Units: mg/Kg-dry		Prep Date: 6/2/2017			RunNo: 36548		
Client ID:	BATCH	Batch ID: 17256			Analysis Date: 6/6/2017					SeqNo: 702374		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Mercury 0.609 0.310 0.6192 0.03925 92.1 70 130

Sample ID	1705319-003AMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36548		
Client ID:	BATCH	Batch ID:	17256			Analysis Date:	6/6/2017	SeqNo:	702375		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.588 0.292 0.5848 0.03925 93.9 70 130 0.6093 3.50 20

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID	MB-17248	SampType:	MBLK			Units:	mg/Kg			Prep Date:	6/2/2017		RunNo:	36569	
Client ID:	MBLKS	Batch ID:	17248							Analysis Date:	6/2/2017		SeqNo:	701939	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual		

Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	19.2		20.00		95.9	50	150				
Surr: o-Terphenyl	17.8		20.00		88.9	50	150				

Sample ID	LCS-17248	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/2/2017	RunNo:	36569		
Client ID:	LCSS	Batch ID:	17248			Analysis Date:	6/2/2017	SeqNo:	701938		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	494	20.0	500.0	0	98.8	65	135				
Surr: 2-Fluorobiphenyl	19.8		20.00		99.2	50	150				
Surr: o-Terphenyl	21.2		20.00		106	50	150				

Sample ID	1706013-006ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36569		
Client ID:	BATCH	Batch ID:	17248			Analysis Date:	6/2/2017	SeqNo:	702148		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	21.9						0		30	
Heavy Oil	ND	54.8						0		30	
Surr: 2-Fluorobiphenyl	20.4		21.90		93.1	50	150		0		
Surr: o-Terphenyl	19.5		21.90		88.8	50	150		0		

Sample ID	1706013-006AMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36569		
Client ID:	BATCH	Batch ID:	17248			Analysis Date:	6/2/2017	SeqNo:	702149		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	528	21.6	540.9	0	97.6	65	135				
Surr: 2-Fluorobiphenyl	23.8		21.64		110	50	150				
Surr: o-Terphenyl	25.0		21.64		116	50	150				

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID 1706013-006AMS	SampType: MS	Units: mg/Kg-dry		Prep Date: 6/2/2017	RunNo: 36569
Client ID: BATCH	Batch ID: 17248	Analysis Date: 6/2/2017		SeqNo: 702149	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Sample ID 1706013-006AMSD	SampType: MSD	Units: mg/Kg-dry		Prep Date: 6/2/2017	RunNo: 36569
Client ID: BATCH	Batch ID: 17248	Analysis Date: 6/2/2017		SeqNo: 702150	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Diesel (Fuel Oil)	521	21.7	543.5	0	95.9 65 135 527.9 1.30 30
Surr: 2-Fluorobiphenyl	21.7		21.74		99.9 50 150 0
Surr: o-Terphenyl	23.1		21.74		106 50 150 0

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID	MB-17248	SampType:	MBLK		Units:	mg/Kg		Prep Date:	6/2/2017		RunNo:	36585	
Client ID:	MBLKS	Batch ID:	17248					Analysis Date:	6/2/2017		SeqNo:	702187	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Gasoline		ND	20.0										
Mineral Spirits		ND	30.0										
Kerosene		ND	50.0										
Diesel (Fuel Oil)		ND	50.0										
Heavy Oil		ND	100										
Mineral Oil		ND	100										
Surr: 2-Fluorobiphenyl		19.2		20.00		95.9	50	150					
Surr: o-Terphenyl		17.8		20.00		88.9	50	150					

Sample ID	LCS-17248	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/2/2017	RunNo:	36585		
Client ID:	LCSS	Batch ID:	17248			Analysis Date:	6/2/2017	SeqNo:	702186		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	494	50.0	500.0	0	98.8	65	135				
Surr: 2-Fluorobiphenyl	19.8		20.00		99.2	50	150				
Surr: o-Terphenyl	21.2		20.00		106	50	150				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	MB-17250	SampType:	MBLK		Units:	µg/Kg		Prep Date:	6/2/2017		RunNo:	36606	
Client ID:	MBLKS	Batch ID:	17250					Analysis Date:	6/2/2017		SeqNo:	702661	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Naphthalene	ND	40.0											
2-Methylnaphthalene	ND	40.0											
1-Methylnaphthalene	ND	40.0											
Acenaphthylene	ND	40.0											
Acenaphthene	ND	40.0											
Fluorene	ND	40.0											
Phenanthrene	ND	40.0											
Anthracene	ND	40.0											
Fluoranthene	ND	40.0											
Pyrene	ND	40.0											
Benz(a)anthracene	ND	40.0											
Chrysene	ND	40.0											
Benzo(b)fluoranthene	ND	40.0											
Benzo(k)fluoranthene	ND	40.0											
Benzo(a)pyrene	ND	40.0											
Indeno(1,2,3-cd)pyrene	ND	40.0											
Dibenz(a,h)anthracene	ND	40.0											
Benzo(g,h,i)perylene	ND	40.0											
Surr: 2-Fluorobiphenyl	342		500.0		68.5	24.5	139						
Surr: Terphenyl-d14 (surr)	447		500.0		89.3	44.3	176						

Sample ID	LCS-17250	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	LCSS	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702662		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	745	40.0	1,000	0	74.5	46.4	125				
2-Methylnaphthalene	772	40.0	1,000	0	77.2	45.1	135				
1-Methylnaphthalene	766	40.0	1,000	0	76.6	46.2	133				
Acenaphthylene	813	40.0	1,000	0	81.3	32.8	136				
Acenaphthene	766	40.0	1,000	0	76.6	38.7	129				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	LCS-17250	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	LCSS	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702662		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	786	40.0	1,000	0	78.6	41.4	144				
Phenanthrene	759	40.0	1,000	0	75.9	43.9	133				
Anthracene	824	40.0	1,000	0	82.4	44.2	136				
Fluoranthene	802	40.0	1,000	0	80.2	45.9	137				
Pyrene	799	40.0	1,000	0	79.9	46.2	137				
Benz(a)anthracene	785	40.0	1,000	0	78.5	41.2	141				
Chrysene	759	40.0	1,000	0	75.9	46.9	138				
Benzo(b)fluoranthene	829	40.0	1,000	0	82.9	41	155				
Benzo(k)fluoranthene	785	40.0	1,000	0	78.5	41.8	153				
Benzo(a)pyrene	777	40.0	1,000	0	77.7	30.2	171				
Indeno(1,2,3-cd)pyrene	816	40.0	1,000	0	81.6	31.3	159				
Dibenz(a,h)anthracene	817	40.0	1,000	0	81.7	28	158				
Benzo(g,h,i)perylene	769	40.0	1,000	0	76.9	32.4	144				
Surr: 2-Fluorobiphenyl	417		500.0		83.4	24.5	139				
Surr: Terphenyl-d14 (surr)	445		500.0		89.0	44.3	176				

Sample ID	1705334-001ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702664		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	42.7						0		30	
2-Methylnaphthalene	ND	42.7						0		30	
1-Methylnaphthalene	ND	42.7						0		30	
Acenaphthylene	ND	42.7						0		30	
Acenaphthene	ND	42.7						0		30	
Fluorene	ND	42.7						0		30	
Phenanthrene	ND	42.7						0		30	
Anthracene	ND	42.7						0		30	
Fluoranthene	ND	42.7						0		30	
Pyrene	ND	42.7						0		30	

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	1705334-001ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702664		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz(a)anthracene	ND	42.7						0		30	
Chrysene	ND	42.7						0		30	
Benzo(b)fluoranthene	ND	42.7						0		30	
Benzo(k)fluoranthene	ND	42.7						0		30	
Benzo(a)pyrene	ND	42.7						0		30	
Indeno(1,2,3-cd)pyrene	ND	42.7						0		30	
Dibenz(a,h)anthracene	ND	42.7						0		30	
Benzo(g,h,i)perylene	ND	42.7						0		30	
Surr: 2-Fluorobiphenyl	366		533.4		68.6	24.5	139		0		
Surr: Terphenyl-d14 (surr)	417		533.4		78.1	44.3	176		0		

Sample ID	1705334-001AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702665		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	732	45.6	1,141	6.113	63.6	42.9	138				
2-Methylnaphthalene	767	45.6	1,141	9.177	66.4	42.8	151				
1-Methylnaphthalene	758	45.6	1,141	8.332	65.7	41.6	148				
Acenaphthylene	807	45.6	1,141	0	70.7	32.6	160				
Acenaphthene	744	45.6	1,141	0	65.2	46.3	142				
Fluorene	766	45.6	1,141	0	67.1	43.4	153				
Phenanthrene	754	45.6	1,141	17.52	64.6	45.5	140				
Anthracene	816	45.6	1,141	2.589	71.3	32.6	160				
Fluoranthene	841	45.6	1,141	17.76	72.1	44.6	161				
Pyrene	827	45.6	1,141	17.92	70.9	48.3	158				
Benz(a)anthracene	794	45.6	1,141	13.46	68.4	34.9	139				
Chrysene	739	45.6	1,141	6.439	64.2	45.2	146				
Benzo(b)fluoranthene	840	45.6	1,141	13.17	72.4	42.2	168				
Benzo(k)fluoranthene	773	45.6	1,141	4.729	67.4	34.8	147				
Benzo(a)pyrene	838	45.6	1,141	13.75	72.2	34.4	179				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	1705334-001AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702665		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	800	45.6	1,141	6.500	69.6	5	113				
Dibenz(a,h)anthracene	777	45.6	1,141	0	68.1	17.3	156				
Benzo(g,h,i)perylene	750	45.6	1,141	8.513	64.9	24.9	119				
Surr: 2-Fluorobiphenyl	392		570.6		68.7	24.5	139				
Surr: Terphenyl-d14 (surr)	436		570.6		76.5	44.3	176				

Sample ID	1705334-001AMSD	SampType:	MSD	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702666		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	605	41.2	1,029	6.113	58.1	42.9	138	732.2	19.1	30	
2-Methylnaphthalene	635	41.2	1,029	9.177	60.8	42.8	151	766.5	18.7	30	
1-Methylnaphthalene	629	41.2	1,029	8.332	60.3	41.6	148	757.8	18.6	30	
Acenaphthylene	667	41.2	1,029	0	64.8	32.6	160	806.6	18.9	30	
Acenaphthene	609	41.2	1,029	0	59.1	46.3	142	743.6	20.0	30	
Fluorene	630	41.2	1,029	0	61.2	43.4	153	766.2	19.6	30	
Phenanthrene	619	41.2	1,029	17.52	58.5	45.5	140	754.3	19.6	30	
Anthracene	681	41.2	1,029	2.589	65.9	32.6	160	815.7	18.1	30	
Fluoranthene	699	41.2	1,029	17.76	66.2	44.6	161	841.0	18.4	30	
Pyrene	691	41.2	1,029	17.92	65.4	48.3	158	827.0	17.9	30	
Benz(a)anthracene	670	41.2	1,029	13.46	63.8	34.9	139	794.1	17.0	30	
Chrysene	619	41.2	1,029	6.439	59.5	45.2	146	738.6	17.6	30	
Benzo(b)fluoranthene	729	41.2	1,029	13.17	69.5	42.2	168	839.7	14.2	30	
Benzo(k)fluoranthene	625	41.2	1,029	4.729	60.3	34.8	147	773.3	21.2	30	
Benzo(a)pyrene	686	41.2	1,029	13.75	65.3	34.4	179	837.6	19.9	30	
Indeno(1,2,3-cd)pyrene	663	41.2	1,029	6.500	63.8	5	113	800.3	18.8	30	
Dibenz(a,h)anthracene	652	41.2	1,029	0	63.3	17.3	156	777.4	17.5	30	
Benzo(g,h,i)perylene	615	41.2	1,029	8.513	59.0	24.9	119	749.6	19.7	30	
Surr: 2-Fluorobiphenyl	319		514.7		62.0	24.5	139		0		
Surr: Terphenyl-d14 (surr)	361		514.7		70.1	44.3	176		0		

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	1705334-001AMSD	SampType:	MSD	Units:	µg/Kg-dry	Prep Date:	6/2/2017	RunNo:	36606		
Client ID:	BATCH	Batch ID:	17250			Analysis Date:	6/2/2017	SeqNo:	702666		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual



Date: 6/7/2017

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT
Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17262	SampType: MBLK		Units: µg/Kg		Prep Date: 6/5/2017			RunNo: 36630		
Client ID:	MBLKS	Batch ID: 17262		Analysis Date: 6/5/2017					SeqNo: 703072		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	100									
Bis(2-chloroethyl) ether	ND	100									
2-Chlorophenol	ND	100									
1,3-Dichlorobenzene	ND	75.0									
1,4-Dichlorobenzene	ND	75.0									
1,2-Dichlorobenzene	ND	75.0									
Benzyl alcohol	ND	100									Q
2-Methylphenol (o-cresol)	ND	100									
Hexachloroethane	ND	100									
N-Nitrosodi-n-propylamine	ND	100									
Nitrobenzene	ND	100									
Isophorone	ND	100									
3&4-Methylphenol (m, p-cresol)	ND	100									
2-Nitrophenol	ND	100									
2,4-Dimethylphenol	ND	100									
Bis(2-chloroethoxy)methane	ND	75.0									
2,4-Dichlorophenol	ND	100									
1,2,4-Trichlorobenzene	ND	75.0									
Naphthalene	ND	50.0									
4-Chloroaniline	ND	75.0									
Hexachlorobutadiene	ND	75.0									
4-Chloro-3-methylphenol	ND	200									
2-Methylnaphthalene	ND	50.0									
1-Methylnaphthalene	ND	50.0									
Hexachlorocyclopentadiene	ND	100									
2,4,6-Trichlorophenol	ND	100									
2,4,5-Trichlorophenol	ND	100									
2-Chloronaphthalene	ND	75.0									
2-Nitroaniline	ND	100									
Acenaphthene	ND	50.0									
Dimethylphthalate	631	100									Q



Date: 6/7/2017

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17262	SampType:	MBLK			Units:	µg/Kg			Prep Date:	6/5/2017		RunNo:	36630	
Client ID:	MBLKS	Batch ID:	17262						Analysis Date:	6/5/2017			SeqNo:	703072	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual		
2,6-Dinitrotoluene		ND	100												
Acenaphthylene		ND	50.0												
2,4-Dinitrophenol		ND	200												
Dibenzofuran		ND	75.0												
2,4-Dinitrotoluene		ND	100												
4-Nitrophenol		ND	500												
Fluorene		ND	50.0												
4-Chlorophenyl phenyl ether		ND	75.0												
Diethylphthalate		ND	100												
4,6-Dinitro-2-methylphenol		ND	200												
4-Bromophenyl phenyl ether		ND	75.0												
Hexachlorobenzene		ND	75.0												
Pentachlorophenol		ND	100												
Phenanthrene		ND	50.0												
Anthracene		ND	50.0												
Carbazole		ND	75.0												
Di-n-butylphthalate		ND	100												
Fluoranthene		ND	50.0												
Pyrene		ND	50.0												
Butyl Benzylphthalate		ND	100												
bis(2-Ethylhexyl)adipate		ND	100												
Benz (a) anthracene		ND	50.0												
Chrysene		ND	50.0												
bis (2-Ethylhexyl) phthalate		ND	100												
Di-n-octyl phthalate		ND	100												
Benzo (b) fluoranthene		ND	50.0										Q		
Benzo (k) fluoranthene		ND	50.0												
Benzo (a) pyrene		ND	50.0												
Indeno (1,2,3-cd) pyrene		ND	50.0												
Dibenz (a,h) anthracene		ND	50.0												
Benzo (g,h,i) perylene		ND	50.0												

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17262	SampType:	MBLK		Units:	µg/Kg		Prep Date:	6/5/2017		RunNo:	36630	
Client ID:	MBLKS	Batch ID:	17262					Analysis Date:	6/5/2017		SeqNo:	703072	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol		394		1,000		39.4	11.1	127					
Surr: 2-Fluorobiphenyl		259		500.0		51.8	15	123					
Surr: Nitrobenzene-d5		169		500.0		33.8	10	133					
Surr: Phenol-d6		749		1,000		74.9	11.6	133					
Surr: p-Terphenyl		372		500.0		74.4	26.7	159					

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	LCS-17262	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	LCSS	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703073		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	640	100	1,000	0	64.0	41.8	138				
Bis(2-chloroethyl) ether	574	100	1,000	0	57.4	49.8	141				
2-Chlorophenol	612	100	1,000	0	61.2	49.3	132				
1,3-Dichlorobenzene	379	75.0	1,000	0	37.9	35.9	128				
1,4-Dichlorobenzene	383	75.0	1,000	0	38.3	36.8	131				
1,2-Dichlorobenzene	438	75.0	1,000	0	43.8	41.8	128				
Benzyl alcohol	602	100	1,000	0	60.2	42.4	131				
2-Methylphenol (o-cresol)	661	100	1,000	0	66.1	47.2	134				
Hexachloroethane	419	100	1,000	0	41.9	25.4	144				
N-Nitrosodi-n-propylamine	738	100	1,000	0	73.8	39.8	135				
Nitrobenzene	656	100	1,000	0	65.6	50.3	136				
Isophorone	738	100	1,000	0	73.8	62.7	131				
3&4-Methylphenol (m, p-cresol)	337	100	500.0	0	67.4	57.4	131				
2-Nitrophenol	657	100	1,000	0	65.7	44.2	129				
2,4-Dimethylphenol	683	100	1,000	0	68.3	57.8	121				
Bis(2-chloroethoxy)methane	657	75.0	1,000	0	65.7	55.1	136				
2,4-Dichlorophenol	631	100	1,000	0	63.1	57.1	128				
1,2,4-Trichlorobenzene	594	75.0	1,000	0	59.4	36.2	140				
Naphthalene	609	50.0	1,000	0	60.9	52.9	131				



Date: 6/7/2017

Work Order: 1706027
 CLIENT: O'Neill Service Group
 Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	LCS-17262	SampType: LCS		Units: µg/Kg		Prep Date: 6/5/2017			RunNo: 36630		
Client ID:	LCSS	Batch ID: 17262					Analysis Date: 6/5/2017			SeqNo: 703073	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloroaniline	668	75.0	1,000	0	66.8	10.4	130				
Hexachlorobutadiene	592	75.0	1,000	0	59.2	55.9	131				
4-Chloro-3-methylphenol	699	200	1,000	0	69.9	49.4	138				
2-Methylnaphthalene	656	50.0	1,000	0	65.6	56.3	132				
1-Methylnaphthalene	644	50.0	1,000	0	64.4	56.4	132				
Hexachlorocyclopentadiene	617	100	1,000	0	61.7	21	130				
2,4,6-Trichlorophenol	521	100	1,000	0	52.1	36.4	132				
2,4,5-Trichlorophenol	617	100	1,000	0	61.7	34.6	133				
2-Chloronaphthalene	643	75.0	1,000	0	64.3	33	120				
2-Nitroaniline	762	100	1,000	0	76.2	43.9	135				
Acenaphthene	676	50.0	1,000	0	67.6	49.2	127				
Dimethylphthalate	1,270	100	1,000	0	127	60.9	140				B
2,6-Dinitrotoluene	672	100	1,000	0	67.2	54.6	127				
Acenaphthylene	646	50.0	1,000	0	64.6	53.7	137				
2,4-Dinitrophenol	657	200	2,000	0	32.8	7.9	119				
Dibenzofuran	662	75.0	1,000	0	66.2	38.2	125				
2,4-Dinitrotoluene	735	100	1,000	0	73.5	21.9	136				
4-Nitrophenol	676	500	1,000	0	67.6	25.4	138				
Fluorene	677	50.0	1,000	0	67.7	64.8	126				
4-Chlorophenyl phenyl ether	665	75.0	1,000	0	66.5	58.2	131				
Diethylphthalate	733	100	1,000	0	73.3	42.9	132				
4,6-Dinitro-2-methylphenol	607	200	1,000	0	60.7	12.9	110				
4-Bromophenyl phenyl ether	683	75.0	1,000	0	68.3	61.8	128				
Hexachlorobenzene	671	75.0	1,000	0	67.1	56.7	131				
Pentachlorophenol	166	100	1,000	0	16.6	10	123				
Phenanthrene	649	50.0	1,000	0	64.9	61.2	130				
Anthracene	648	50.0	1,000	0	64.8	59.2	135				
Carbazole	658	75.0	1,000	0	65.8	37	148				
Di-n-butylphthalate	728	100	1,000	0	72.8	46.6	145				
Fluoranthene	658	50.0	1,000	0	65.8	56.6	135				
Pyrene	648	50.0	1,000	0	64.8	45.4	140				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	LCS-17262	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	LCSS	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703073		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl Benzylphthalate	782	100	1,000	0	78.2	31.1	157				
bis(2-Ethylhexyl)adipate	749	100	1,000	0	74.9	28.7	160				
Benz (a) anthracene	638	50.0	1,000	0	63.8	44	150				
Chrysene	648	50.0	1,000	0	64.8	58.9	129				
bis (2-Ethylhexyl) phthalate	799	100	1,000	0	79.9	36.3	149				
Di-n-octyl phthalate	847	100	1,000	0	84.7	31.5	152				
Benzo (b) fluoranthene	646	50.0	1,000	0	64.6	45.6	146				
Benzo (k) fluoranthene	668	50.0	1,000	0	66.8	45.5	138				
Benzo (a) pyrene	691	50.0	1,000	0	69.1	35.6	148				
Indeno (1,2,3-cd) pyrene	661	50.0	1,000	0	66.1	44.2	146				
Dibenz (a,h) anthracene	663	50.0	1,000	0	66.3	37.5	152				
Benzo (g,h,l) perylene	646	50.0	1,000	0	64.6	24.1	156				
Surr: 2,4,6-Tribromophenol	679		1,000		67.9	11.1	127				
Surr: 2-Fluorobiphenyl	355		500.0		71.0	15	123				
Surr: Nitrobenzene-d5	282		500.0		56.4	10	133				
Surr: Phenol-d6	803		1,000		80.3	11.6	133				
Surr: p-Terphenyl	357		500.0		71.4	26.7	159				

Sample ID	1706027-006ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703079		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	105						0		50	
Bis(2-chloroethyl) ether	ND	105						0		50	
2-Chlorophenol	ND	105						0		50	
1,3-Dichlorobenzene	ND	78.6						0		50	
1,4-Dichlorobenzene	ND	78.6						0		50	
1,2-Dichlorobenzene	ND	78.6						0		50	
Benzyl alcohol	ND	105						0		50	Q
2-Methylphenol (o-cresol)	ND	105						0		50	



Date: 6/7/2017

Work Order: 1706027
 CLIENT: O'Neill Service Group
 Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703079		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloroethane	ND	105						0		50	
N-Nitrosodi-n-propylamine	ND	105						0		50	
Nitrobenzene	ND	105						0		50	
Isophorone	ND	105						0		50	
3&4-Methylphenol (m, p-cresol)	ND	105						0		50	
2-Nitrophenol	ND	105						0		50	
2,4-Dimethylphenol	ND	105						0		50	
Bis(2-chloroethoxy)methane	ND	78.6						0		50	
2,4-Dichlorophenol	ND	105						0		50	
1,2,4-Trichlorobenzene	ND	78.6						0		50	
Naphthalene	ND	52.4						0		50	
4-Chloroaniline	ND	78.6						0		50	
Hexachlorobutadiene	ND	78.6						0		50	
4-Chloro-3-methylphenol	ND	210						0		50	
2-Methylnaphthalene	ND	52.4						0		50	
1-Methylnaphthalene	ND	52.4						0		50	
Hexachlorocyclopentadiene	ND	105						0		50	
2,4,6-Trichlorophenol	ND	105						0		50	
2,4,5-Trichlorophenol	ND	105						0		50	
2-Chloronaphthalene	ND	78.6						0		50	
2-Nitroaniline	ND	105						0		50	
Acenaphthene	ND	52.4						0		50	
Dimethylphthalate	253	105						270.0	6.36	50	BQ
2,6-Dinitrotoluene	ND	105						0		50	
Acenaphthylene	ND	52.4						0		50	
2,4-Dinitrophenol	ND	210						0		50	
Dibenzofuran	ND	78.6						0		50	
2,4-Dinitrotoluene	ND	105						0		50	
4-Nitrophenol	ND	524						0		50	
Fluorene	ND	52.4						0		50	
4-Chlorophenyl phenyl ether	ND	78.6						0		50	

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006ADUP	SampType:	DUP			Units:	µg/Kg-dry			Prep Date:	6/5/2017			RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262						Analysis Date:	6/5/2017			SeqNo:	703079			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				
Diethylphthalate		ND	105						0			50					
4,6-Dinitro-2-methylphenol		ND	210						0			50					
4-Bromophenyl phenyl ether		ND	78.6						0			50					
Hexachlorobenzene		ND	78.6						0			50					
Pentachlorophenol		ND	105						0			50					
Phenanthrene		ND	52.4						0			50					
Anthracene		ND	52.4						0			50					
Carbazole		ND	78.6						0			50					
Di-n-butylphthalate		ND	105						0			50					
Fluoranthene		ND	52.4						0			50					
Pyrene		ND	52.4						0			50					
Butyl Benzylphthalate		ND	105						0			50					
bis(2-Ethylhexyl)adipate		ND	105						0			50					
Benz (a) anthracene		ND	52.4						0			50					
Chrysene		ND	52.4						0			50					
bis (2-Ethylhexyl) phthalate		ND	105						0			50					
Di-n-octyl phthalate		ND	105						0			50					
Benzo (b) fluoranthene		ND	52.4						0			50	Q				
Benzo (k) fluoranthene		ND	52.4						0			50					
Benzo (a) pyrene		ND	52.4						0			50					
Indeno (1,2,3-cd) pyrene		ND	52.4						0			50					
Dibenz (a,h) anthracene		ND	52.4						0			50					
Benzo (g,h,i) perylene		ND	52.4						0			50					
Surr: 2,4,6-Tribromophenol		804		1,048		76.7	11.1	127			0						
Surr: 2-Fluorobiphenyl		319		524.2		60.8	15	123			0						
Surr: Nitrobenzene-d5		307		524.2		58.5	10	133			0						
Surr: Phenol-d6		818		1,048		78.0	11.6	133			0						
Surr: p-Terphenyl		368		524.2		70.1	26.7	159			0						

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Date: 6/7/2017

Work Order: 1706027
 CLIENT: O'Neill Service Group
 Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006AMS	SampType: MS			Units: µg/Kg-dry		Prep Date: 6/5/2017			RunNo: 36630		
Client ID:	PR-TP-1-2	Batch ID: 17262			Analysis Date: 6/5/2017					SeqNo: 703080		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Phenol	658	104	1,042	0	63.2	29.2	146				
Bis(2-chloroethyl) ether	594	104	1,042	0	57.0	34.4	135				
2-Chlorophenol	619	104	1,042	0	59.4	44	134				
1,3-Dichlorobenzene	370	78.2	1,042	0	35.5	21.1	133				
1,4-Dichlorobenzene	386	78.2	1,042	0	37.1	20.9	131				
1,2-Dichlorobenzene	428	78.2	1,042	0	41.1	35	131				
Benzyl alcohol	537	104	1,042	0	51.5	30.8	159				
2-Methylphenol (o-cresol)	677	104	1,042	0	65.0	39.9	125				
Hexachloroethane	390	104	1,042	0	37.4	15.4	139				
N-Nitrosodi-n-propylamine	759	104	1,042	0	72.8	26.4	151				
Nitrobenzene	666	104	1,042	16.80	62.3	61.4	130				
Isophorone	769	104	1,042	0	73.8	61.8	132				
3&4-Methylphenol (m, p-cresol)	345	104	521.2	0	66.2	37.6	125				
2-Nitrophenol	769	104	1,042	0	73.8	33.5	132				
2,4-Dimethylphenol	702	104	1,042	0	67.3	46	158				
Bis(2-chloroethoxy)methane	688	78.2	1,042	0	66.0	46.8	121				
2,4-Dichlorophenol	672	104	1,042	0	64.5	33.9	133				
1,2,4-Trichlorobenzene	579	78.2	1,042	0	55.5	29.2	140				
Naphthalene	616	52.1	1,042	0	59.1	44.4	136				
4-Chloroaniline	604	78.2	1,042	0	58.0	27	126				
Hexachlorobutadiene	601	78.2	1,042	0	57.7	38.2	138				
4-Chloro-3-methylphenol	717	208	1,042	0	68.8	36.8	159				
2-Methylnaphthalene	644	52.1	1,042	0	61.8	51.7	138				
1-Methylnaphthalene	637	52.1	1,042	0	61.1	51.8	131				
Hexachlorocyclopentadiene	514	104	1,042	0	49.3	10	133				
2,4,6-Trichlorophenol	639	104	1,042	0	61.3	34.6	129				
2,4,5-Trichlorophenol	688	104	1,042	0	66.0	54.7	127				
2-Chloronaphthalene	652	78.2	1,042	0	62.5	42.1	124				
2-Nitroaniline	799	104	1,042	0	76.6	39.3	145				
Acenaphthene	675	52.1	1,042	0	64.8	49.6	129				
Dimethylphthalate	954	104	1,042	270.0	65.6	32.9	137				

B



Date: 6/7/2017

Work Order: 1706027
 CLIENT: O'Neill Service Group
 Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703080		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	695	104	1,042	0	66.7	30.3	136				
Acenaphthylene	659	52.1	1,042	0	63.2	39.9	129				
2,4-Dinitrophenol	1,420	208	2,085	0	68.2	10	149				
Dibenzofuran	656	78.2	1,042	0	62.9	41.2	128				
2,4-Dinitrotoluene	747	104	1,042	0	71.6	30.9	139				
4-Nitrophenol	710	521	1,042	0	68.1	15.6	160				
Fluorene	653	52.1	1,042	0	62.7	37.7	133				
4-Chlorophenyl phenyl ether	660	78.2	1,042	0	63.3	70.9	128				S
Diethylphthalate	719	104	1,042	12.71	67.8	36.7	130				
4,6-Dinitro-2-methylphenol	806	208	1,042	0	77.4	21.9	143				
4-Bromophenyl phenyl ether	672	78.2	1,042	0	64.5	69.6	136				S
Hexachlorobenzene	665	78.2	1,042	0	63.8	34.3	131				
Pentachlorophenol	420	104	1,042	0	40.3	28.2	156				
Phenanthrene	658	52.1	1,042	3.894	62.7	32.2	139				
Anthracene	680	52.1	1,042	0	65.2	43.9	128				
Carbazole	684	78.2	1,042	0	65.6	64.1	152				
Di-n-butylphthalate	792	104	1,042	0	76.0	35.1	142				
Fluoranthene	687	52.1	1,042	0	65.9	33.8	141				
Pyrene	666	52.1	1,042	0	63.9	31.4	151				
Butyl Benzylphthalate	885	104	1,042	0	84.9	30.4	138				
bis(2-Ethylhexyl)adipate	857	104	1,042	0	82.3	32	136				
Benz (a) anthracene	667	52.1	1,042	5.130	63.5	36	138				
Chrysene	648	52.1	1,042	0	62.2	41.6	125				
bis (2-Ethylhexyl) phthalate	901	104	1,042	0	86.4	40.8	170				
Di-n-octyl phthalate	968	104	1,042	0	92.8	34.6	142				
Benzo (b) fluoranthene	665	52.1	1,042	0	63.8	52.1	136				
Benzo (k) fluoranthene	688	52.1	1,042	0	66.0	45	140				
Benzo (a) pyrene	708	52.1	1,042	0	67.9	50.5	137				
Indeno (1,2,3-cd) pyrene	684	52.1	1,042	0	65.6	38.1	155				
Dibenz (a,h) anthracene	674	52.1	1,042	0	64.7	40.7	152				
Benzo (g,h,l) perylene	671	52.1	1,042	0	64.3	34	157				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703080		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	906		1,042		86.9	11.1	127				
Surr: 2-Fluorobiphenyl	336		521.2		64.4	15	123				
Surr: Nitrobenzene-d5	312		521.2		59.9	10	133				
Surr: Phenol-d6	792		1,042		75.9	11.6	133				
Surr: p-Terphenyl	348		521.2		66.7	26.7	159				

NOTES:

S - Outlying spike recovery(ies) observed.

Sample ID	1706027-006AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 6/5/2017			RunNo: 36630		
Client ID:	PR-TP-1-2	Batch ID:	17262				Analysis Date: 6/5/2017			SeqNo: 703081	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	653	102	1,024	0	63.8	29.2	146	658.5	0.828	50	
Bis(2-chloroethyl) ether	591	102	1,024	0	57.8	34.4	135	593.7	0.396	50	
2-Chlorophenol	621	102	1,024	0	60.7	44	134	618.6	0.368	50	
1,3-Dichlorobenzene	375	76.8	1,024	0	36.6	21.1	133	369.7	1.40	50	
1,4-Dichlorobenzene	393	76.8	1,024	0	38.4	20.9	131	386.4	1.82	50	
1,2-Dichlorobenzene	433	76.8	1,024	0	42.3	35	131	427.9	1.11	50	
Benzyl alcohol	599	102	1,024	0	58.6	30.8	159	536.5	11.1	50	
2-Methylphenol (o-cresol)	691	102	1,024	0	67.5	39.9	125	677.4	1.93	50	
Hexachloroethane	406	102	1,024	0	39.7	15.4	139	390.2	4.07	50	
N-Nitrosodi-n-propylamine	760	102	1,024	0	74.3	26.4	151	759.0	0.186	50	
Nitrobenzene	681	102	1,024	16.80	64.8	61.4	130	666.2	2.12	50	
Isophorone	776	102	1,024	0	75.8	61.8	132	769.5	0.838	50	
3&4-Methylphenol (m, p-cresol)	341	102	511.8	0	66.6	37.6	125	344.9	1.20	50	
2-Nitrophenol	788	102	1,024	0	77.0	33.5	132	769.1	2.41	50	
2,4-Dimethylphenol	705	102	1,024	0	68.9	46	158	701.6	0.524	50	
Bis(2-chloroethoxy)methane	679	76.8	1,024	0	66.3	46.8	121	687.8	1.28	50	
2,4-Dichlorophenol	678	102	1,024	0	66.3	33.9	133	671.9	0.978	50	
1,2,4-Trichlorobenzene	596	76.8	1,024	0	58.2	29.2	140	578.6	2.94	50	
Naphthalene	633	51.2	1,024	0	61.8	44.4	136	616.1	2.64	50	

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 6/5/2017			RunNo: 36630		
Client ID:	PR-TP-1-2	Batch ID:	17262				Analysis Date: 6/5/2017			SeqNo: 703081	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloroaniline	652	76.8	1,024	0	63.7	27	126	604.2	7.68	50	
Hexachlorobutadiene	602	76.8	1,024	0	58.8	38.2	138	600.9	0.221	50	
4-Chloro-3-methylphenol	748	205	1,024	0	73.1	36.8	159	717.4	4.22	50	
2-Methylnaphthalene	675	51.2	1,024	0	65.9	51.7	138	644.2	4.62	50	
1-Methylnaphthalene	674	51.2	1,024	0	65.8	51.8	131	636.5	5.65	50	
Hexachlorocyclopentadiene	542	102	1,024	0	53.0	10	133	514.0	5.33	50	
2,4,6-Trichlorophenol	732	102	1,024	0	71.5	34.6	129	639.2	13.5	50	
2,4,5-Trichlorophenol	739	102	1,024	0	72.2	54.7	127	687.6	7.22	50	
2-Chloronaphthalene	702	76.8	1,024	0	68.6	42.1	124	651.6	7.47	50	
2-Nitroaniline	849	102	1,024	0	83.0	39.3	145	798.7	6.11	50	
Acenaphthene	722	51.2	1,024	0	70.6	49.6	129	675.4	6.74	50	
Dimethylphthalate	1,010	102	1,024	270.0	72.0	32.9	137	953.6	5.46	50	B
2,6-Dinitrotoluene	751	102	1,024	0	73.4	30.3	136	695.0	7.80	50	
Acenaphthylene	710	51.2	1,024	0	69.4	39.9	129	658.9	7.51	50	
2,4-Dinitrophenol	1,400	205	2,047	0	68.4	10	149	1,421	1.57	50	
Dibenzofuran	704	76.8	1,024	0	68.8	41.2	128	656.1	7.00	50	
2,4-Dinitrotoluene	768	102	1,024	0	75.0	30.9	139	746.7	2.80	50	
4-Nitrophenol	762	512	1,024	0	74.5	15.6	160	709.8	7.14	50	
Fluorene	711	51.2	1,024	0	69.5	37.7	133	653.3	8.51	50	
4-Chlorophenyl phenyl ether	719	76.8	1,024	0	70.2	70.9	128	660.3	8.51	50	S
Diethylphthalate	768	102	1,024	12.71	73.8	36.7	130	719.2	6.63	50	
4,6-Dinitro-2-methylphenol	798	205	1,024	0	78.0	21.9	143	806.3	1.04	50	
4-Bromophenyl phenyl ether	699	76.8	1,024	0	68.2	69.6	136	671.8	3.90	50	S
Hexachlorobenzene	697	76.8	1,024	0	68.1	34.3	131	665.2	4.64	50	
Pentachlorophenol	473	102	1,024	0	46.2	28.2	156	420.1	11.9	50	
Phenanthrene	687	51.2	1,024	3.894	66.7	32.2	139	657.6	4.35	50	
Anthracene	692	51.2	1,024	0	67.6	43.9	128	679.5	1.75	50	
Carbazole	709	76.8	1,024	0	69.3	64.1	152	683.7	3.63	50	
Di-n-butylphthalate	813	102	1,024	0	79.5	35.1	142	792.0	2.66	50	
Fluoranthene	715	51.2	1,024	0	69.9	33.8	141	687.3	3.95	50	
Pyrene	705	51.2	1,024	0	68.9	31.4	151	665.6	5.81	50	

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706027-006AMSD	SampType:	MSD	Units:	µg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36630		
Client ID:	PR-TP-1-2	Batch ID:	17262			Analysis Date:	6/5/2017	SeqNo:	703081		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl Benzylphthalate	883	102	1,024	0	86.2	30.4	138	884.6	0.222	50	
bis(2-Ethylhexyl)adipate	878	102	1,024	0	85.8	32	136	857.4	2.34	50	
Benz (a) anthracene	680	51.2	1,024	5.130	66.0	36	138	667.0	1.97	50	
Chrysene	680	51.2	1,024	0	66.5	41.6	125	647.9	4.85	50	
bis (2-Ethylhexyl) phthalate	933	102	1,024	0	91.2	40.8	170	900.7	3.56	50	
Di-n-octyl phthalate	987	102	1,024	0	96.4	34.6	142	967.7	1.99	50	
Benzo (b) fluoranthene	634	51.2	1,024	0	62.0	52.1	136	664.7	4.71	50	
Benzo (k) fluoranthene	726	51.2	1,024	0	70.9	45	140	687.7	5.44	50	
Benzo (a) pyrene	718	51.2	1,024	0	70.2	50.5	137	707.6	1.48	50	
Indeno (1,2,3-cd) pyrene	704	51.2	1,024	0	68.8	38.1	155	683.9	2.90	50	
Dibenz (a,h) anthracene	707	51.2	1,024	0	69.0	40.7	152	673.9	4.74	50	
Benzo (g,h,i) perylene	678	51.2	1,024	0	66.3	34	157	670.6	1.17	50	
Surr: 2,4,6-Tribromophenol	935		1,024		91.3	11.1	127		0		
Surr: 2-Fluorobiphenyl	340		511.8		66.4	15	123		0		
Surr: Nitrobenzene-d5	334		511.8		65.2	10	133		0		
Surr: Phenol-d6	795		1,024		77.7	11.6	133		0		
Surr: p-Terphenyl	369		511.8		72.0	26.7	159		0		

NOTES:

S - Outlying spike recovery(ies) observed.



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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-17265	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	LCSS	Batch ID:	17265			Analysis Date:	6/5/2017	SeqNo:	702872		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.730	0.0600	1.000	0	73.0	14.3	167				
Chloromethane	0.940	0.0600	1.000	0	94.0	46	144				
Vinyl chloride	0.889	0.00200	1.000	0	88.9	43.4	151				
Bromomethane	0.650	0.0900	1.000	0	65.0	40.9	157				
Trichlorofluoromethane (CFC-11)	0.621	0.0500	1.000	0	62.1	36.9	156				
Chloroethane	0.614	0.0600	1.000	0	61.4	33.4	155				
1,1-Dichloroethene	0.859	0.0500	1.000	0	85.9	49.7	142				
Methylene chloride	0.984	0.0200	1.000	0	98.4	46.3	140				
trans-1,2-Dichloroethene	1.02	0.0200	1.000	0	102	68	130				
Methyl tert-butyl ether (MTBE)	1.06	0.0500	1.000	0	106	66.3	145				
1,1-Dichloroethane	0.882	0.0200	1.000	0	88.2	61.9	137				
2,2-Dichloropropane	1.07	0.0500	1.000	0	107	35.5	186				
cis-1,2-Dichloroethene	0.981	0.0200	1.000	0	98.1	71.3	135				
Chloroform	0.996	0.0200	1.000	0	99.6	69	145				
1,1,1-Trichloroethane (TCA)	0.907	0.0200	1.000	0	90.7	69	132				
1,1-Dichloropropene	0.947	0.0200	1.000	0	94.7	72.7	131				
Carbon tetrachloride	0.853	0.0200	1.000	0	85.3	63.4	137				
1,2-Dichloroethane (EDC)	0.960	0.0300	1.000	0	96.0	50.9	162				
Benzene	0.948	0.0200	1.000	0	94.8	64.3	133				
Trichloroethene (TCE)	0.716	0.0200	1.000	0	71.6	65.5	137				
1,2-Dichloropropane	0.724	0.0200	1.000	0	72.4	63.2	142				
Bromodichloromethane	0.716	0.0200	1.000	0	71.6	53.4	131				
Dibromomethane	0.714	0.0400	1.000	0	71.4	60.1	146				
cis-1,3-Dichloropropene	0.872	0.0200	1.000	0	87.2	59.1	143				
Toluene	0.796	0.0200	1.000	0	79.6	67.3	138				
trans-1,3-Dichloropropylene	0.917	0.0300	1.000	0	91.7	49.2	149				
1,1,2-Trichloroethane	0.781	0.0300	1.000	0	78.1	56.9	147				
1,3-Dichloropropane	0.792	0.0500	1.000	0	79.2	56.1	153				
Tetrachloroethene (PCE)	0.794	0.0200	1.000	0	79.4	52.7	150				
Dibromochloromethane	0.814	0.0300	1.000	0	81.4	70.6	144				
1,2-Dibromoethane (EDB)	0.789	0.00500	1.000	0	78.9	50.5	154				



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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-17265	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	LCSS	Batch ID:	17265			Analysis Date:	6/5/2017	SeqNo:	702872		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	0.970	0.0200	1.000	0	97.0	76.1	123				
1,1,1,2-Tetrachloroethane	0.941	0.0300	1.000	0	94.1	65.9	141				
Ethylbenzene	0.989	0.0300	1.000	0	98.9	74	129				
m,p-Xylene	2.00	0.0200	2.000	0	100	70	124				
o-Xylene	1.01	0.0200	1.000	0	101	68.1	139				
Styrene	0.981	0.0200	1.000	0	98.1	73.3	146				
Isopropylbenzene	0.986	0.0800	1.000	0	98.6	70	130				
Bromoform	0.895	0.0200	1.000	0	89.5	67	154				
1,1,2,2-Tetrachloroethane	0.947	0.0200	1.000	0	94.7	44.8	165				
n-Propylbenzene	0.977	0.0200	1.000	0	97.7	74.8	125				
Bromobenzene	1.00	0.0300	1.000	0	100	49.2	144				
1,3,5-Trimethylbenzene	0.978	0.0200	1.000	0	97.8	74.6	123				
2-Chlorotoluene	0.999	0.0200	1.000	0	99.9	76.7	129				
4-Chlorotoluene	0.991	0.0200	1.000	0	99.1	77.5	125				
tert-Butylbenzene	1.01	0.0200	1.000	0	101	66.2	130				
1,2,3-Trichloropropane	1.03	0.0200	1.000	0	103	67.9	136				
1,2,4-Trichlorobenzene	1.19	0.0500	1.000	0	119	62.6	143				
sec-Butylbenzene	1.03	0.0200	1.000	0	103	75.6	133				
4-Isopropyltoluene	1.04	0.0200	1.000	0	104	76.8	131				
1,3-Dichlorobenzene	1.01	0.0200	1.000	0	101	72.8	128				
1,4-Dichlorobenzene	0.995	0.0200	1.000	0	99.5	72.6	126				
n-Butylbenzene	1.06	0.0200	1.000	0	106	65.3	136				
1,2-Dichlorobenzene	1.04	0.0200	1.000	0	104	72.8	126				
1,2-Dibromo-3-chloropropane	1.01	0.500	1.000	0	101	40.2	155				
1,2,4-Trimethylbenzene	0.991	0.0200	1.000	0	99.1	77.5	129				
Hexachlorobutadiene	1.22	0.100	1.000	0	122	42	151				
Naphthalene	1.19	0.0300	1.000	0	119	58.4	160				
1,2,3-Trichlorobenzene	1.20	0.0200	1.000	0	120	54.8	143				
Surr: Dibromofluoromethane	1.21		1.250		96.9	56.5	129				
Surr: Toluene-d8	1.02		1.250		81.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.39		1.250		111	63.1	141				



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-17265	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	LCSS	Batch ID:	17265			Analysis Date:	6/5/2017	SeqNo:	702872		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	MB-17265	SampType:	MBLK			Units:	mg/Kg			Prep Date:	6/5/2017			RunNo:	36617		
Client ID:	MBLKS	Batch ID:	17265						Analysis Date:	6/5/2017			SeqNo:	702873			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				

Dichlorodifluoromethane (CFC-12)	ND	0.0600
Chloromethane	ND	0.0600
Vinyl chloride	ND	0.00200
Bromomethane	ND	0.0900
Trichlorofluoromethane (CFC-11)	ND	0.0500
Chloroethane	ND	0.0600
1,1-Dichloroethene	ND	0.0500
Methylene chloride	ND	0.0200
trans-1,2-Dichloroethene	ND	0.0200
Methyl tert-butyl ether (MTBE)	ND	0.0500
1,1-Dichloroethane	ND	0.0200
2,2-Dichloropropane	ND	0.0500
cis-1,2-Dichloroethene	ND	0.0200
Chloroform	ND	0.0200
1,1,1-Trichloroethane (TCA)	ND	0.0200
1,1-Dichloropropene	ND	0.0200
Carbon tetrachloride	ND	0.0200
1,2-Dichloroethane (EDC)	ND	0.0300
Benzene	ND	0.0200
Trichloroethene (TCE)	ND	0.0200
1,2-Dichloropropane	ND	0.0200
Bromodichloromethane	ND	0.0200
Dibromomethane	ND	0.0400
cis-1,3-Dichloropropene	ND	0.0200
Toluene	ND	0.0200

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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-17265	SampType:	MBLK		Units:	mg/Kg			Prep Date:	6/5/2017		RunNo:	36617	
Client ID:	MBLKS	Batch ID:	17265						Analysis Date:	6/5/2017		SeqNo:	702873	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val			%RPD	RPDLimit	Qual
trans-1,3-Dichloropropylene		ND	0.0300											
1,1,2-Trichloroethane		ND	0.0300											
1,3-Dichloropropane		ND	0.0500											
Tetrachloroethene (PCE)		ND	0.0200											
Dibromochloromethane		ND	0.0300											
1,2-Dibromoethane (EDB)		ND	0.00500											
Chlorobenzene		ND	0.0200											
1,1,1,2-Tetrachloroethane		ND	0.0300											
Ethylbenzene		ND	0.0300											
m,p-Xylene		ND	0.0200											
o-Xylene		ND	0.0200											
Styrene		ND	0.0200											
Isopropylbenzene		ND	0.0800											
Bromoform		ND	0.0200											
1,1,2,2-Tetrachloroethane		ND	0.0200											
n-Propylbenzene		ND	0.0200											
Bromobenzene		ND	0.0300											
1,3,5-Trimethylbenzene		ND	0.0200											
2-Chlorotoluene		ND	0.0200											
4-Chlorotoluene		ND	0.0200											
tert-Butylbenzene		ND	0.0200											
1,2,3-Trichloropropane		ND	0.0200											
1,2,4-Trichlorobenzene		ND	0.0500											
sec-Butylbenzene		ND	0.0200											
4-Isopropyltoluene		ND	0.0200											
1,3-Dichlorobenzene		ND	0.0200											
1,4-Dichlorobenzene		ND	0.0200											
n-Butylbenzene		ND	0.0200											
1,2-Dichlorobenzene		ND	0.0200											
1,2-Dibromo-3-chloropropane		ND	0.500											
1,2,4-Trimethylbenzene		ND	0.0200											



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-17265	SampType:	MBLK	Units:	mg/Kg	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	MBLKS	Batch ID:	17265			Analysis Date:	6/5/2017	SeqNo:	702873		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	ND	0.100									
Naphthalene	ND	0.0300									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	1.09		1.250		87.0	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.6	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.14		1.250		91.5	63.1	141				

Sample ID	1706026-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702852		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0695						0		30	Q
Chloromethane	ND	0.0695						0		30	
Vinyl chloride	ND	0.00232						0		30	
Bromomethane	ND	0.104						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	0.0580						0		30	Q
Chloroethane	ND	0.0695						0		30	Q
1,1-Dichloroethene	ND	0.0580						0		30	Q
Methylene chloride	ND	0.0232						0		30	
trans-1,2-Dichloroethene	ND	0.0232						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0580						0		30	
1,1-Dichloroethane	ND	0.0232						0		30	
2,2-Dichloropropane	ND	0.0580						0		30	Q
cis-1,2-Dichloroethene	ND	0.0232						0		30	
Chloroform	ND	0.0232						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0232						0		30	
1,1-Dichloropropene	ND	0.0232						0		30	
Carbon tetrachloride	ND	0.0232						0		30	
1,2-Dichloroethane (EDC)	ND	0.0348						0		30	
Benzene	ND	0.0232						0		30	



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QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702852		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.0232						0		30	
1,2-Dichloropropane	ND	0.0232						0		30	
Bromodichloromethane	ND	0.0232						0		30	
Dibromomethane	ND	0.0464						0		30	
cis-1,3-Dichloropropene	ND	0.0232						0		30	
Toluene	ND	0.0232						0		30	
trans-1,3-Dichloropropylene	ND	0.0348						0		30	
1,1,2-Trichloroethane	ND	0.0348						0		30	
1,3-Dichloropropane	ND	0.0580						0		30	
Tetrachloroethene (PCE)	ND	0.0232						0		30	
Dibromochloromethane	ND	0.0348						0		30	
1,2-Dibromoethane (EDB)	ND	0.00580						0		30	
Chlorobenzene	ND	0.0232						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0348						0		30	
Ethylbenzene	ND	0.0348						0		30	
m,p-Xylene	ND	0.0232						0		30	
o-Xylene	ND	0.0232						0		30	
Styrene	ND	0.0232						0		30	
Isopropylbenzene	ND	0.0927						0		30	
Bromoform	ND	0.0232						0		30	Q
1,1,1,2-Tetrachloroethane	ND	0.0232						0		30	
n-Propylbenzene	ND	0.0232						0		30	
Bromobenzene	ND	0.0348						0		30	
1,3,5-Trimethylbenzene	ND	0.0232						0		30	
2-Chlorotoluene	ND	0.0232						0		30	
4-Chlorotoluene	ND	0.0232						0		30	
tert-Butylbenzene	ND	0.0232						0		30	
1,2,3-Trichloropropane	ND	0.0232						0		30	
1,2,4-Trichlorobenzene	ND	0.0580						0		30	
sec-Butylbenzene	ND	0.0232						0		30	
4-Isopropyltoluene	ND	0.0232						0		30	

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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702852		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.0232						0		30	
1,4-Dichlorobenzene	ND	0.0232						0		30	
n-Butylbenzene	ND	0.0232						0		30	
1,2-Dichlorobenzene	ND	0.0232						0		30	
1,2-Dibromo-3-chloropropane	ND	0.580						0		30	
1,2,4-Trimethylbenzene	ND	0.0232						0		30	
Hexachlorobutadiene	ND	0.116						0		30	
Naphthalene	ND	0.0348						0		30	
1,2,3-Trichlorobenzene	ND	0.0232						0		30	
Surr: Dibromofluoromethane	1.31		1.449		90.2	56.5	129		0		
Surr: Toluene-d8	1.41		1.449		97.3	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.37		1.449		94.5	63.1	141		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1706026-012BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702856		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.905	0.0725	1.209	0	74.9	43.5	121				
Chloromethane	1.08	0.0725	1.209	0	89.3	45	130				
Vinyl chloride	1.02	0.00242	1.209	0	84.4	51.2	146				
Bromomethane	0.705	0.109	1.209	0	58.3	21.3	120				
Trichlorofluoromethane (CFC-11)	0.713	0.0605	1.209	0	59.0	35	131				
Chloroethane	0.689	0.0725	1.209	0	57.0	31.9	123				
1,1-Dichloroethene	0.798	0.0605	1.209	0	66.0	61.9	141				
Methylene chloride	0.995	0.0242	1.209	0	82.3	54.7	142				
trans-1,2-Dichloroethene	0.995	0.0242	1.209	0	82.3	52	136				
Methyl tert-butyl ether (MTBE)	1.09	0.0605	1.209	0	90.4	54.4	132				
1,1-Dichloroethane	1.11	0.0242	1.209	0	91.8	51.8	141				
2,2-Dichloropropane	0.844	0.0605	1.209	0	69.8	36	123				

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-012BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702856		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	1.01	0.0242	1.209	0	83.4	58.6	136				
Chloroform	1.07	0.0242	1.209	0	88.6	53.2	129				
1,1,1-Trichloroethane (TCA)	0.975	0.0242	1.209	0	80.7	58.3	145				
1,1-Dichloropropene	1.05	0.0242	1.209	0	87.0	55.1	138				
Carbon tetrachloride	0.956	0.0242	1.209	0	79.1	53.3	144				
1,2-Dichloroethane (EDC)	1.09	0.0363	1.209	0	90.0	51.3	139				
Benzene	1.14	0.0242	1.209	0	94.2	63.5	133				
Trichloroethene (TCE)	1.12	0.0242	1.209	0	92.9	68.6	132				
1,2-Dichloropropane	1.03	0.0242	1.209	0	85.1	59	136				
Bromodichloromethane	0.874	0.0242	1.209	0	72.3	50.7	141				
Dibromomethane	0.949	0.0484	1.209	0	78.5	50.6	137				
cis-1,3-Dichloropropene	1.02	0.0242	1.209	0	84.6	50.4	138				
Toluene	1.04	0.0242	1.209	0	86.4	63.4	132				
trans-1,3-Dichloropropylene	1.03	0.0363	1.209	0	85.3	44.1	147				
1,1,2-Trichloroethane	1.01	0.0363	1.209	0	83.7	51.6	137				
1,3-Dichloropropane	1.02	0.0605	1.209	0	84.0	53.1	134				
Tetrachloroethene (PCE)	1.02	0.0242	1.209	0	84.2	35.6	158				
Dibromochloromethane	0.923	0.0363	1.209	0	76.3	55.3	140				
1,2-Dibromoethane (EDB)	0.985	0.00605	1.209	0	81.4	50.4	136				
Chlorobenzene	1.13	0.0242	1.209	0	93.4	60	133				
1,1,1,2-Tetrachloroethane	1.02	0.0363	1.209	0	84.4	53.1	142				
Ethylbenzene	1.13	0.0363	1.209	0	93.3	54.5	134				
m,p-Xylene	2.25	0.0242	2.418	0	93.0	53.1	132				
o-Xylene	1.13	0.0242	1.209	0	93.3	53.3	139				
Styrene	1.10	0.0242	1.209	0	90.9	51.1	132				
Isopropylbenzene	1.11	0.0967	1.209	0	91.9	58.9	138				
Bromoform	0.808	0.0242	1.209	0	66.8	57.9	130				
1,1,2,2-Tetrachloroethane	0.896	0.0242	1.209	0	74.1	51.9	131				
n-Propylbenzene	1.09	0.0242	1.209	0	90.0	53.6	140				
Bromobenzene	1.09	0.0363	1.209	0	90.3	54.2	140				
1,3,5-Trimethylbenzene	1.10	0.0242	1.209	0	91.2	51.8	136				

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-012BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702856		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	1.13	0.0242	1.209	0	93.2	51.6	136				
4-Chlorotoluene	1.10	0.0242	1.209	0	91.4	50.1	139				
tert-Butylbenzene	1.11	0.0242	1.209	0	92.2	50.5	135				
1,2,3-Trichloropropane	1.02	0.0242	1.209	0	84.3	50.5	131				
1,2,4-Trichlorobenzene	1.10	0.0605	1.209	0	90.6	50.8	130				
sec-Butylbenzene	1.15	0.0242	1.209	0	94.8	52.6	141				
4-Isopropyltoluene	1.16	0.0242	1.209	0	96.3	52.9	134				
1,3-Dichlorobenzene	1.18	0.0242	1.209	0	97.6	52.6	131				
1,4-Dichlorobenzene	1.17	0.0242	1.209	0	96.4	52.9	129				
n-Butylbenzene	1.23	0.0242	1.209	0	102	52.6	130				
1,2-Dichlorobenzene	1.16	0.0242	1.209	0	95.8	55.8	129				
1,2-Dibromo-3-chloropropane	0.842	0.605	1.209	0	69.7	40.5	131				
1,2,4-Trimethylbenzene	1.11	0.0242	1.209	0	91.8	50.6	137				
Hexachlorobutadiene	1.30	0.121	1.209	0	107	40.6	158				
Naphthalene	1.02	0.0363	1.209	0	84.6	52.3	124				
1,2,3-Trichlorobenzene	1.05	0.0242	1.209	0	86.6	54.4	124				
Surr: Dibromofluoromethane	1.39		1.511		92.0	56.5	129				
Surr: Toluene-d8	1.45		1.511		95.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.57		1.511		104	63.1	141				

Sample ID 1706026-012BMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 6/5/2017			RunNo: 36617		
Client ID: BATCH		Batch ID: 17265		Analysis Date: 6/6/2017					SeqNo: 702857		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.22	0.0725	1.209	0	101	43.5	121	0.9054	30.0	30	
Chloromethane	1.28	0.0725	1.209	0	106	45	130	1.079	16.9	30	
Vinyl chloride	1.22	0.00242	1.209	0	101	51.2	146	1.020	17.6	30	
Bromomethane	0.802	0.109	1.209	0	66.3	21.3	120	0.7048	12.9	30	
Trichlorofluoromethane (CFC-11)	0.815	0.0605	1.209	0	67.4	35	131	0.7128	13.3	30	
Chloroethane	0.726	0.0725	1.209	0	60.0	31.9	123	0.6888	5.23	30	

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-012BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	BATCH	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	702857		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.876	0.0605	1.209	0	72.4	61.9	141	0.7976	9.36	30	
Methylene chloride	1.13	0.0242	1.209	0	93.1	54.7	142	0.9950	12.3	30	
trans-1,2-Dichloroethene	1.12	0.0242	1.209	0	93.0	52	136	0.9948	12.2	30	
Methyl tert-butyl ether (MTBE)	1.12	0.0605	1.209	0	92.3	54.4	132	1.093	2.03	30	
1,1-Dichloroethane	1.10	0.0242	1.209	0	90.6	51.8	141	1.110	1.33	30	
2,2-Dichloropropane	1.06	0.0605	1.209	0	87.9	36	123	0.8444	22.9	30	
cis-1,2-Dichloroethene	1.20	0.0242	1.209	0	99.1	58.6	136	1.009	17.2	30	
Chloroform	1.17	0.0242	1.209	0	96.4	53.2	129	1.071	8.50	30	
1,1,1-Trichloroethane (TCA)	1.17	0.0242	1.209	0	96.5	58.3	145	0.9755	17.8	30	
1,1-Dichloropropene	1.23	0.0242	1.209	0	102	55.1	138	1.052	15.4	30	
Carbon tetrachloride	1.03	0.0242	1.209	0	85.5	53.3	144	0.9559	7.86	30	
1,2-Dichloroethane (EDC)	1.22	0.0363	1.209	0	101	51.3	139	1.088	11.4	30	
Benzene	1.20	0.0242	1.209	0	99.6	63.5	133	1.139	5.54	30	
Trichloroethene (TCE)	1.30	0.0242	1.209	0	107	68.6	132	1.123	14.4	30	
1,2-Dichloropropane	1.15	0.0242	1.209	0	94.7	59	136	1.029	10.7	30	
Bromodichloromethane	0.979	0.0242	1.209	0	81.0	50.7	141	0.8735	11.4	30	
Dibromomethane	1.04	0.0484	1.209	0	85.7	50.6	137	0.9493	8.73	30	
cis-1,3-Dichloropropene	1.15	0.0242	1.209	0	94.9	50.4	138	1.023	11.5	30	
Toluene	1.18	0.0242	1.209	0	97.8	63.4	132	1.045	12.3	30	
trans-1,3-Dichloropropylene	1.14	0.0363	1.209	0	94.1	44.1	147	1.032	9.77	30	
1,1,2-Trichloroethane	1.05	0.0363	1.209	0	86.9	51.6	137	1.012	3.81	30	
1,3-Dichloropropane	1.09	0.0605	1.209	0	90.4	53.1	134	1.015	7.37	30	
Tetrachloroethene (PCE)	1.20	0.0242	1.209	0	98.9	35.6	158	1.018	16.1	30	
Dibromochloromethane	1.01	0.0363	1.209	0	83.9	55.3	140	0.9228	9.47	30	
1,2-Dibromoethane (EDB)	1.05	0.00605	1.209	0	86.9	50.4	136	0.9847	6.43	30	
Chlorobenzene	1.20	0.0242	1.209	0	99.0	60	133	1.129	5.83	30	
1,1,1,2-Tetrachloroethane	1.08	0.0363	1.209	0	89.5	53.1	142	1.020	5.92	30	
Ethylbenzene	1.22	0.0363	1.209	0	101	54.5	134	1.127	8.05	30	
m,p-Xylene	2.44	0.0242	2.418	0	101	53.1	132	2.249	8.14	30	
o-Xylene	1.20	0.0242	1.209	0	99.4	53.3	139	1.128	6.35	30	
Styrene	1.16	0.0242	1.209	0	96.1	51.1	132	1.099	5.55	30	

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706026-012BMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 6/5/2017			RunNo: 36617		
Client ID:	BATCH	Batch ID:	17265	Analysis Date: 6/6/2017					SeqNo: 702857		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Isopropylbenzene	1.22	0.0967	1.209	0	101	58.9	138	1.111	9.35	30	
Bromoform	0.828	0.0242	1.209	0	68.4	57.9	130	0.8076	2.44	30	
1,1,2,2-Tetrachloroethane	0.921	0.0242	1.209	0	76.2	51.9	131	0.8957	2.78	30	
n-Propylbenzene	1.20	0.0242	1.209	0	98.9	53.6	140	1.088	9.44	30	
Bromobenzene	1.14	0.0363	1.209	0	94.2	54.2	140	1.092	4.26	30	
1,3,5-Trimethylbenzene	1.18	0.0242	1.209	0	97.7	51.8	136	1.102	6.87	30	
2-Chlorotoluene	1.19	0.0242	1.209	0	98.0	51.6	136	1.126	5.10	30	
4-Chlorotoluene	1.17	0.0242	1.209	0	96.8	50.1	139	1.105	5.80	30	
tert-Butylbenzene	1.21	0.0242	1.209	0	100	50.5	135	1.114	8.24	30	
1,2,3-Trichloropropane	0.980	0.0242	1.209	0	81.0	50.5	131	1.020	3.98	30	
1,2,4-Trichlorobenzene	1.23	0.0605	1.209	0	102	50.8	130	1.096	11.4	30	
sec-Butylbenzene	1.25	0.0242	1.209	0	103	52.6	141	1.146	8.37	30	
4-Isopropyltoluene	1.25	0.0242	1.209	0	103	52.9	134	1.164	7.13	30	
1,3-Dichlorobenzene	1.25	0.0242	1.209	0	103	52.6	131	1.180	5.39	30	
1,4-Dichlorobenzene	1.23	0.0242	1.209	0	102	52.9	129	1.166	5.38	30	
n-Butylbenzene	1.36	0.0242	1.209	0	113	52.6	130	1.230	10.3	30	
1,2-Dichlorobenzene	1.20	0.0242	1.209	0	99.3	55.8	129	1.158	3.53	30	
1,2-Dibromo-3-chloropropane	0.871	0.605	1.209	0	72.0	40.5	131	0.8424	3.29	30	
1,2,4-Trimethylbenzene	1.17	0.0242	1.209	0	96.5	50.6	137	1.110	5.01	30	
Hexachlorobutadiene	1.41	0.121	1.209	0	117	40.6	158	1.297	8.56	30	
Naphthalene	1.22	0.0363	1.209	0	101	52.3	124	1.023	17.2	30	
1,2,3-Trichlorobenzene	1.19	0.0242	1.209	0	98.1	54.4	124	1.047	12.5	30	
Surr: Dibromofluoromethane	1.46		1.511		96.7	56.5	129		0		
Surr: Toluene-d8	1.52		1.511		101	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.55		1.511		103	63.1	141		0		



Date: 6/7/2017

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706027-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	703117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0673						0		30	Q
Chloromethane	ND	0.0673						0		30	
Vinyl chloride	ND	0.00224						0		30	
Bromomethane	ND	0.101						0		30	Q
Trichlorofluoromethane (CFC-11)	ND	0.0561						0		30	Q
Chloroethane	ND	0.0673						0		30	Q
1,1-Dichloroethene	ND	0.0561						0		30	Q
Methylene chloride	ND	0.0224						0		30	
trans-1,2-Dichloroethene	ND	0.0224						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0561						0		30	
1,1-Dichloroethane	ND	0.0224						0		30	
2,2-Dichloropropane	ND	0.0561						0		30	Q
cis-1,2-Dichloroethene	ND	0.0224						0		30	
Chloroform	ND	0.0224						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0224						0		30	
1,1-Dichloropropene	ND	0.0224						0		30	
Carbon tetrachloride	ND	0.0224						0		30	
1,2-Dichloroethane (EDC)	ND	0.0336						0		30	
Benzene	ND	0.0224						0		30	
Trichloroethene (TCE)	ND	0.0224						0		30	
1,2-Dichloropropane	ND	0.0224						0		30	
Bromodichloromethane	ND	0.0224						0		30	
Dibromomethane	ND	0.0449						0		30	
cis-1,3-Dichloropropene	ND	0.0224						0		30	
Toluene	ND	0.0224						0		30	
trans-1,3-Dichloropropylene	ND	0.0336						0		30	
1,1,2-Trichloroethane	ND	0.0336						0		30	
1,3-Dichloropropane	ND	0.0561						0		30	
Tetrachloroethene (PCE)	ND	0.0224						0		30	
Dibromochloromethane	ND	0.0336						0		30	
1,2-Dibromoethane (EDB)	ND	0.00561						0		30	



Date: 6/7/2017

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706027-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/5/2017	RunNo:	36617		
Client ID:	PR-TR-3-6-PLUG	Batch ID:	17265			Analysis Date:	6/6/2017	SeqNo:	703117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.0224						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0336						0		30	
Ethylbenzene	ND	0.0336						0		30	
m,p-Xylene	0.0477	0.0224						0.2340	132	30	R
o-Xylene	0.0267	0.0224						0	200	30	
Styrene	ND	0.0224						0		30	
Isopropylbenzene	ND	0.0897						0		30	
Bromoform	ND	0.0224						0		30	Q
1,1,2,2-Tetrachloroethane	ND	0.0224						0		30	
n-Propylbenzene	ND	0.0224						0		30	
Bromobenzene	ND	0.0336						0		30	
1,3,5-Trimethylbenzene	0.0736	0.0224						0	200	30	
2-Chlorotoluene	ND	0.0224						0		30	
4-Chlorotoluene	ND	0.0224						0		30	
tert-Butylbenzene	ND	0.0224						0		30	
1,2,3-Trichloropropane	ND	0.0224						0		30	
1,2,4-Trichlorobenzene	ND	0.0561						0		30	
sec-Butylbenzene	0.0580	0.0224						0	200	30	
4-Isopropyltoluene	0.0863	0.0224						0	200	30	
1,3-Dichlorobenzene	ND	0.0224						0		30	
1,4-Dichlorobenzene	ND	0.0224						0		30	
n-Butylbenzene	ND	0.0224						0		30	
1,2-Dichlorobenzene	ND	0.0224						0		30	
1,2-Dibromo-3-chloropropane	ND	0.561						0		30	
1,2,4-Trimethylbenzene	0.146	0.0224						0	200	30	
Hexachlorobutadiene	ND	0.112						0		30	
Naphthalene	13.9	0.0336						27.49	65.6	30	RE
1,2,3-Trichlorobenzene	ND	0.0224						0		30	
Surr: Dibromofluoromethane	1.25		1.402		89.4	56.5	129		0		
Surr: Toluene-d8	1.49		1.402		106	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.46		1.402		104	63.1	141		0		



Date: 6/7/2017

Work Order: 1706027

CLIENT: O'Neill Service Group

Project: E320

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706027-002BDUP	SampType: DUP			Units: mg/Kg-dry		Prep Date: 6/5/2017			RunNo: 36617		
Client ID:	PR-TR-3-6-PLUG	Batch ID: 17265			Analysis Date: 6/6/2017					SeqNo: 703117		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

NOTES:

R - High RPD observed. The method is in control as indicated by the LCS.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

E - Estimated value. The amount exceeds the linear working range of the instrument.



Date: 6/7/2017

Work Order: 1706027
CLIENT: O'Neill Service Group
Project: E320

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1706027-001ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/5/2017	RunNo:	36583		
Client ID:	PR-TR-3-2	Batch ID:	R36583			Analysis Date:	6/5/2017	SeqNo:	702121		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	6.77	0.500						7.136	5.31	20	

Sample ID	1706023-001ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/5/2017	RunNo:	36583		
Client ID:	BATCH	Batch ID:	R36583			Analysis Date:	6/5/2017	SeqNo:	702145		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	8.21	0.500						8.716	6.03	20	

Client Name: **ONEILL**
 Logged by: **Erica Silva**

Work Order Number: **1706027**
 Date Received: **6/2/2017 2:24:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >0°C to 10.0°C* Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
 MeOH to 001B - 007B
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	3.3
Sample	2.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/21/17 Page: 1 of 2 Laboratory Project No (internal): 1704027

Project Name: E320 Special Remarks:

Project No: KLB PO 005

Collected by: Jackie Marx

Location: Eastside Park and Ride

Report To (PM): Brady Hanson

PM Email: bradyh@oneillsg.com

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Client: * OSC
Address: On File

City, State, Zip:
Telephone: 206-491-3970

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*															Comments
				VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - 51M)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)	Dissolved (D)	Anions (IC)**	EDB (8031)	
1 PR-TR-3-2	6/21/17	10:20	Soil	X			X			X								Results by COB Tuesday
2 PR-TR-3-6-PLUG		10:45		X			X			X								
3 PR-TR-3-8		10:52		X			X			X								
4 PR-TR-2-2		11:20		X			X			X								
5 PR-TR-2-12		11:46		X			X			X								
6 PR-TP-1-2		12:39		X			X			X								
7 PR-TP-1-8		12:57		X			X			X								
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished x [Signature] Date/Time 06/02/17 1424 Received x [Signature] Date/Time 06/21/2017 1424

Relinquished x [Signature] Date/Time [Blank] Received x [Signature] Date/Time [Blank]

Turn-around Time:

- ☐ Standard
- ☐ 3 Day
- ☒ 2 Day
- ☐ Next Day
- Same Day (specify) _____



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/2/17

Page: 2 of 2

Laboratory Project No (internal): 1706027

Project Name: E320

Project No: KLB PO 005

Collected by: Jackie Mart

Location: Eastside Park and Ride

Report To (PM): Brady Hanson

PM Email: bradyh@oneillsg.com

Special Remarks:

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Client: OSG

Address: On File

City, State, Zip:

Telephone: 206-491-3970

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*																	Comments
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)				
1 PR-TR-3-4	6/2/17	10:29	Soil																	HOLD
2 PR-TR-2-4		11:25																		
3 PR-TR-2-6		11:30																		
4 PR-TR-2-8		11:40																		
5 PR-TP-1-4		12:44																		
6 PR-TP-1-6	✓	12:49	✓																	
7																				
8																				
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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Relinquished
x Date/Time 06/2/17 14:24

Relinquished
x Date/Time

Received
x Date/Time 6/2/2017 1424

Received
x Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

Same Day _____
(specify)



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/2/17 Page: 1 of 2 Laboratory Project No (Internal): 1706027

Project Name: E320 Special Remarks:

Project No: KLB PO 005

Collected by: Jackie Marx

Location: Eastside Park and Ride

Report To (PM): Brady Hanson

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: bradyh@oneillsg.com

Client: * OSG

Address: On File

City, State, Zip:

Telephone: 206-491-3970

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)														Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Relinquished x	Date/Time 06/02/17 1424	Received x	Date/Time 6/2/2017 1424
Relinquished x	Date/Time	Received x	Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☒ 2 Day

☐ Next Day

Same Day _____ (specify)



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
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info@fremontanalytical.com

O'Neill Service Group

Brady Hanson
17619 NE 67th Court, Suite 100
Redmond, WA 98052

RE: KLB PO 0005

Work Order Number: 1706132

June 14, 2017

Attention Brady Hanson:

Fremont Analytical, Inc. received 20 sample(s) on 6/12/2017 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Hydrocarbon Identification by NWTPH-HCID
Mercury by EPA Method 7471
Sample Moisture (Percent Moisture)
Semi-Volatile Organic Compounds by EPA Method 8270
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

CC:
Jackie Mart

CLIENT: O'Neill Service Group
Project: KLB PO 0005
Work Order: 1706132

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1706132-001	PR-TP-4-3	06/12/2017 8:30 AM	06/12/2017 2:44 PM
1706132-002	PR-TP-4-8	06/12/2017 8:45 AM	06/12/2017 2:44 PM
1706132-003	PR-TP-5-3	06/12/2017 9:10 AM	06/12/2017 2:44 PM
1706132-004	PR-TP-5-8	06/12/2017 9:25 AM	06/12/2017 2:44 PM
1706132-005	PR-TP-6-3	06/12/2017 9:50 AM	06/12/2017 2:44 PM
1706132-006	PR-TP-6-8	06/12/2017 9:58 AM	06/12/2017 2:44 PM
1706132-007	PR-TP-7-3	06/12/2017 10:20 AM	06/12/2017 2:44 PM
1706132-008	PR-TP-7-8	06/12/2017 10:30 AM	06/12/2017 2:44 PM
1706132-009	PR-TP-8-3	06/12/2017 10:55 AM	06/12/2017 2:44 PM
1706132-010	PR-TP-8-5	06/12/2017 11:05 AM	06/12/2017 2:44 PM
1706132-011	PR-TP-9-3	06/12/2017 11:30 AM	06/12/2017 2:44 PM
1706132-012	PR-TP-9-6	06/12/2017 11:32 AM	06/12/2017 2:44 PM
1706132-013	PR-TP-10-3	06/12/2017 12:00 PM	06/12/2017 2:44 PM
1706132-014	PR-TP-10-8	06/12/2017 12:08 PM	06/12/2017 2:44 PM
1706132-015	PR-TP-11-3	06/12/2017 12:30 PM	06/12/2017 2:44 PM
1706132-016	PR-TP-11-8	06/12/2017 12:48 PM	06/12/2017 2:44 PM
1706132-017	PR-TP-12-3	06/12/2017 1:00 PM	06/12/2017 2:44 PM
1706132-018	PR-TP-12-8	06/12/2017 1:09 PM	06/12/2017 2:44 PM
1706132-019	PR-TP-13-3	06/12/2017 1:20 PM	06/12/2017 2:44 PM
1706132-020	PR-TP-13-8	06/12/2017 1:25 PM	06/12/2017 2:44 PM

CLIENT: O'Neill Service Group**Project:** KLB PO 0005

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 8:45:00 AM

Project: KLB PO 0005

Lab ID: 1706132-002

Matrix: Soil

Client Sample ID: PR-TP-4-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 17332

Analyst: SG

Diesel (Fuel Oil)	ND	23.9		mg/Kg-dry	1	6/12/2017 8:32:52 PM
Heavy Oil	ND	59.8		mg/Kg-dry	1	6/12/2017 8:32:52 PM
Surr: 2-Fluorobiphenyl	116	50-150		%Rec	1	6/12/2017 8:32:52 PM
Surr: o-Terphenyl	120	50-150		%Rec	1	6/12/2017 8:32:52 PM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Phenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Bis(2-chloroethyl) ether	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Chlorophenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
1,3-Dichlorobenzene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
1,4-Dichlorobenzene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
1,2-Dichlorobenzene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benzyl alcohol	ND	115	Q	µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Methylphenol (o-cresol)	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Hexachloroethane	ND	115	Q	µg/Kg-dry	1	6/12/2017 11:17:08 PM
N-Nitrosodi-n-propylamine	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Nitrobenzene	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Isophorone	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
3&4-Methylphenol (m, p-cresol)	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Nitrophenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4-Dimethylphenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Bis(2-chloroethoxy)methane	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4-Dichlorophenol	ND	115	Q	µg/Kg-dry	1	6/12/2017 11:17:08 PM
1,2,4-Trichlorobenzene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Naphthalene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
4-Chloroaniline	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Hexachlorobutadiene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
4-Chloro-3-methylphenol	ND	229		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Methylnaphthalene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
1-Methylnaphthalene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Hexachlorocyclopentadiene	ND	115	Q	µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4,6-Trichlorophenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4,5-Trichlorophenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Chloronaphthalene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2-Nitroaniline	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Acenaphthene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Dimethylphthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,6-Dinitrotoluene	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 8:45:00 AM

Project: KLB PO 0005

Lab ID: 1706132-002

Matrix: Soil

Client Sample ID: PR-TP-4-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Acenaphthylene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4-Dinitrophenol	ND	229		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Dibenzofuran	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
2,4-Dinitrotoluene	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
4-Nitrophenol	ND	574		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Fluorene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
4-Chlorophenyl phenyl ether	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Diethylphthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
4,6-Dinitro-2-methylphenol	ND	229	Q	µg/Kg-dry	1	6/12/2017 11:17:08 PM
4-Bromophenyl phenyl ether	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Hexachlorobenzene	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Pentachlorophenol	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Phenanthrene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Anthracene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Carbazole	ND	86.0		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Di-n-butylphthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Fluoranthene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Pyrene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Butyl Benzylphthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
bis(2-Ethylhexyl)adipate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benz (a) anthracene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Chrysene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
bis (2-Ethylhexyl) phthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Di-n-octyl phthalate	ND	115		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benzo (b) fluoranthene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benzo (k) fluoranthene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benzo (a) pyrene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Indeno (1,2,3-cd) pyrene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Dibenz (a,h) anthracene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Benzo (g,h,i) perylene	ND	57.4		µg/Kg-dry	1	6/12/2017 11:17:08 PM
Surr: 2,4,6-Tribromophenol	142	14.8-165		%Rec	1	6/12/2017 11:17:08 PM
Surr: 2-Fluorobiphenyl	56.4	15-123		%Rec	1	6/12/2017 11:17:08 PM
Surr: Nitrobenzene-d5	66.3	10-133		%Rec	1	6/12/2017 11:17:08 PM
Surr: Phenol-d6	83.4	11.6-133		%Rec	1	6/12/2017 11:17:08 PM
Surr: p-Terphenyl	89.7	26.7-159		%Rec	1	6/12/2017 11:17:08 PM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 8:45:00 AM

Project: KLB PO 0005

Lab ID: 1706132-002

Matrix: Soil

Client Sample ID: PR-TP-4-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	26.2	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:10:00 AM

Project: KLB PO 0005

Lab ID: 1706132-003

Matrix: Soil

Client Sample ID: PR-TP-5-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	22.4		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Mineral Spirits	ND	33.6		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Kerosene	ND	56.0		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Diesel (Fuel Oil)	ND	56.0		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Heavy Oil	ND	112		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Mineral Oil	ND	112		mg/Kg-dry	1	6/12/2017 9:02:14 PM
Surr: 2-Fluorobiphenyl	132	50-150		%Rec	1	6/12/2017 9:02:14 PM
Surr: o-Terphenyl	135	50-150		%Rec	1	6/12/2017 9:02:14 PM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Phenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Bis(2-chloroethyl) ether	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2-Chlorophenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
1,3-Dichlorobenzene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
1,4-Dichlorobenzene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
1,2-Dichlorobenzene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benzyl alcohol	ND	103	Q	µg/Kg-dry	1	6/12/2017 11:39:07 PM
2-Methylphenol (o-cresol)	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Hexachloroethane	ND	103	Q	µg/Kg-dry	1	6/12/2017 11:39:07 PM
N-Nitrosodi-n-propylamine	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Nitrobenzene	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Isophorone	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
3&4-Methylphenol (m, p-cresol)	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2-Nitrophenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4-Dimethylphenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Bis(2-chloroethoxy)methane	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4-Dichlorophenol	ND	103	Q	µg/Kg-dry	1	6/12/2017 11:39:07 PM
1,2,4-Trichlorobenzene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Naphthalene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
4-Chloroaniline	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Hexachlorobutadiene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
4-Chloro-3-methylphenol	ND	206		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2-Methylnaphthalene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
1-Methylnaphthalene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Hexachlorocyclopentadiene	ND	103	Q	µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4,6-Trichlorophenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4,5-Trichlorophenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2-Chloronaphthalene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:10:00 AM

Project: KLB PO 0005

Lab ID: 1706132-003

Matrix: Soil

Client Sample ID: PR-TP-5-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

2-Nitroaniline	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Acenaphthene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Dimethylphthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,6-Dinitrotoluene	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Acenaphthylene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4-Dinitrophenol	ND	206		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Dibenzofuran	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
2,4-Dinitrotoluene	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
4-Nitrophenol	ND	515		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Fluorene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
4-Chlorophenyl phenyl ether	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Diethylphthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
4,6-Dinitro-2-methylphenol	ND	206	Q	µg/Kg-dry	1	6/12/2017 11:39:07 PM
4-Bromophenyl phenyl ether	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Hexachlorobenzene	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Pentachlorophenol	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Phenanthrene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Anthracene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Carbazole	ND	77.3		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Di-n-butylphthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Fluoranthene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Pyrene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Butyl Benzylphthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
bis(2-Ethylhexyl)adipate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benz (a) anthracene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Chrysene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
bis (2-Ethylhexyl) phthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Di-n-octyl phthalate	ND	103		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benzo (b) fluoranthene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benzo (k) fluoranthene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benzo (a) pyrene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Indeno (1,2,3-cd) pyrene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Dibenz (a,h) anthracene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Benzo (g,h,i) perylene	ND	51.5		µg/Kg-dry	1	6/12/2017 11:39:07 PM
Surr: 2,4,6-Tribromophenol	151	14.8-165		%Rec	1	6/12/2017 11:39:07 PM
Surr: 2-Fluorobiphenyl	58.7	15-123		%Rec	1	6/12/2017 11:39:07 PM
Surr: Nitrobenzene-d5	70.8	10-133		%Rec	1	6/12/2017 11:39:07 PM
Surr: Phenol-d6	91.6	11.6-133		%Rec	1	6/12/2017 11:39:07 PM
Surr: p-Terphenyl	102	26.7-159		%Rec	1	6/12/2017 11:39:07 PM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:10:00 AM

Project: KLB PO 0005

Lab ID: 1706132-003

Matrix: Soil

Client Sample ID: PR-TP-5-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0661	Q	mg/Kg-dry	1	6/13/2017 1:25:41 AM
Chloromethane	ND	0.0661		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Vinyl chloride	ND	0.00220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Bromomethane	ND	0.0992		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Trichlorofluoromethane (CFC-11)	ND	0.0551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Chloroethane	ND	0.0661		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1-Dichloroethene	ND	0.0551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Methylene chloride	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
trans-1,2-Dichloroethene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Methyl tert-butyl ether (MTBE)	ND	0.0551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1-Dichloroethane	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
2,2-Dichloropropane	ND	0.0551	Q	mg/Kg-dry	1	6/13/2017 1:25:41 AM
cis-1,2-Dichloroethene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Chloroform	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1,1-Trichloroethane (TCA)	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1-Dichloropropene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Carbon tetrachloride	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2-Dichloroethane (EDC)	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Benzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Trichloroethene (TCE)	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2-Dichloropropane	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Bromodichloromethane	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Dibromomethane	ND	0.0441		mg/Kg-dry	1	6/13/2017 1:25:41 AM
cis-1,3-Dichloropropene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Toluene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
trans-1,3-Dichloropropylene	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1,2-Trichloroethane	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,3-Dichloropropane	ND	0.0551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Tetrachloroethene (PCE)	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Dibromochloromethane	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2-Dibromoethane (EDB)	ND	0.00551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Chlorobenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1,1,2-Tetrachloroethane	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:10:00 AM

Project: KLB PO 0005

Lab ID: 1706132-003

Matrix: Soil

Client Sample ID: PR-TP-5-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Ethylbenzene	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
m,p-Xylene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
o-Xylene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Styrene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Isopropylbenzene	ND	0.0881		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Bromoform	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,1,2,2-Tetrachloroethane	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
n-Propylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Bromobenzene	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,3,5-Trimethylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
2-Chlorotoluene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
4-Chlorotoluene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
tert-Butylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2,3-Trichloropropane	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2,4-Trichlorobenzene	ND	0.0551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
sec-Butylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
4-Isopropyltoluene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,3-Dichlorobenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,4-Dichlorobenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
n-Butylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2-Dichlorobenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2-Dibromo-3-chloropropane	ND	0.551		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2,4-Trimethylbenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Hexachlorobutadiene	ND	0.110		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Naphthalene	ND	0.0331		mg/Kg-dry	1	6/13/2017 1:25:41 AM
1,2,3-Trichlorobenzene	ND	0.0220		mg/Kg-dry	1	6/13/2017 1:25:41 AM
Surr: Dibromofluoromethane	90.3	56.5-129		%Rec	1	6/13/2017 1:25:41 AM
Surr: Toluene-d8	97.5	64.5-151		%Rec	1	6/13/2017 1:25:41 AM
Surr: 1-Bromo-4-fluorobenzene	94.7	63.1-141		%Rec	1	6/13/2017 1:25:41 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Mercury by EPA Method 7471

Batch ID: 17334

Analyst: WF

Mercury	ND	0.272		mg/Kg-dry	1	6/13/2017 2:01:39 PM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:10:00 AM

Project: KLB PO 0005

Lab ID: 1706132-003

Matrix: Soil

Client Sample ID: PR-TP-5-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Total Metals by EPA Method 6020

Batch ID: 17342

Analyst: TN

Arsenic	5.96	0.0885		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Barium	71.3	0.442		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Cadmium	ND	0.177		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Chromium	50.3	0.0885		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Lead	15.1	0.177		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Selenium	1.47	0.442		mg/Kg-dry	1	6/13/2017 4:51:09 PM
Silver	ND	0.0885		mg/Kg-dry	1	6/13/2017 4:51:09 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763

Analyst: BB

Percent Moisture	15.0	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:25:00 AM

Project: KLB PO 0005

Lab ID: 1706132-004

Matrix: Soil

Client Sample ID: PR-TP-5-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	23.2		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Mineral Spirits	ND	34.8		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Kerosene	ND	57.9		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Diesel (Fuel Oil)	ND	57.9		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Heavy Oil	ND	116		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Mineral Oil	ND	116		mg/Kg-dry	1	6/12/2017 9:31:49 PM
Surr: 2-Fluorobiphenyl	117	50-150		%Rec	1	6/12/2017 9:31:49 PM
Surr: o-Terphenyl	120	50-150		%Rec	1	6/12/2017 9:31:49 PM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Phenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Bis(2-chloroethyl) ether	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2-Chlorophenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
1,3-Dichlorobenzene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
1,4-Dichlorobenzene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
1,2-Dichlorobenzene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benzyl alcohol	ND	106	Q	µg/Kg-dry	1	6/13/2017 12:01:02 AM
2-Methylphenol (o-cresol)	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Hexachloroethane	ND	106	Q	µg/Kg-dry	1	6/13/2017 12:01:02 AM
N-Nitrosodi-n-propylamine	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Nitrobenzene	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Isophorone	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
3&4-Methylphenol (m, p-cresol)	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2-Nitrophenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4-Dimethylphenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Bis(2-chloroethoxy)methane	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4-Dichlorophenol	ND	106	Q	µg/Kg-dry	1	6/13/2017 12:01:02 AM
1,2,4-Trichlorobenzene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Naphthalene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
4-Chloroaniline	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Hexachlorobutadiene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
4-Chloro-3-methylphenol	ND	213		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2-Methylnaphthalene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
1-Methylnaphthalene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Hexachlorocyclopentadiene	ND	106	Q	µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4,6-Trichlorophenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4,5-Trichlorophenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2-Chloronaphthalene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:25:00 AM

Project: KLB PO 0005

Lab ID: 1706132-004

Matrix: Soil

Client Sample ID: PR-TP-5-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

2-Nitroaniline	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Acenaphthene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Dimethylphthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,6-Dinitrotoluene	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Acenaphthylene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4-Dinitrophenol	ND	213		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Dibenzofuran	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
2,4-Dinitrotoluene	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
4-Nitrophenol	ND	532		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Fluorene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
4-Chlorophenyl phenyl ether	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Diethylphthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
4,6-Dinitro-2-methylphenol	ND	213	Q	µg/Kg-dry	1	6/13/2017 12:01:02 AM
4-Bromophenyl phenyl ether	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Hexachlorobenzene	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Pentachlorophenol	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Phenanthrene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Anthracene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Carbazole	ND	79.8		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Di-n-butylphthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Fluoranthene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Pyrene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Butyl Benzylphthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
bis(2-Ethylhexyl)adipate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benz (a) anthracene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Chrysene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
bis (2-Ethylhexyl) phthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Di-n-octyl phthalate	ND	106		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benzo (b) fluoranthene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benzo (k) fluoranthene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benzo (a) pyrene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Indeno (1,2,3-cd) pyrene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Dibenz (a,h) anthracene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Benzo (g,h,i) perylene	ND	53.2		µg/Kg-dry	1	6/13/2017 12:01:02 AM
Surr: 2,4,6-Tribromophenol	129	14.8-165		%Rec	1	6/13/2017 12:01:02 AM
Surr: 2-Fluorobiphenyl	59.4	15-123		%Rec	1	6/13/2017 12:01:02 AM
Surr: Nitrobenzene-d5	67.7	10-133		%Rec	1	6/13/2017 12:01:02 AM
Surr: Phenol-d6	76.7	11.6-133		%Rec	1	6/13/2017 12:01:02 AM
Surr: p-Terphenyl	90.7	26.7-159		%Rec	1	6/13/2017 12:01:02 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:25:00 AM

Project: KLB PO 0005

Lab ID: 1706132-004

Matrix: Soil

Client Sample ID: PR-TP-5-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0686	Q	mg/Kg-dry	1	6/13/2017 1:54:20 AM
Chloromethane	ND	0.0686		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Vinyl chloride	ND	0.00229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Bromomethane	ND	0.103		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Trichlorofluoromethane (CFC-11)	ND	0.0572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Chloroethane	ND	0.0686		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1-Dichloroethene	ND	0.0572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Methylene chloride	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
trans-1,2-Dichloroethene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Methyl tert-butyl ether (MTBE)	ND	0.0572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1-Dichloroethane	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
2,2-Dichloropropane	ND	0.0572	Q	mg/Kg-dry	1	6/13/2017 1:54:20 AM
cis-1,2-Dichloroethene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Chloroform	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1,1-Trichloroethane (TCA)	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1-Dichloropropene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Carbon tetrachloride	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2-Dichloroethane (EDC)	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Benzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Trichloroethene (TCE)	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2-Dichloropropane	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Bromodichloromethane	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Dibromomethane	ND	0.0457		mg/Kg-dry	1	6/13/2017 1:54:20 AM
cis-1,3-Dichloropropene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Toluene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
trans-1,3-Dichloropropylene	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1,2-Trichloroethane	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,3-Dichloropropane	ND	0.0572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Tetrachloroethene (PCE)	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Dibromochloromethane	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2-Dibromoethane (EDB)	ND	0.00572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Chlorobenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1,1,2-Tetrachloroethane	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:25:00 AM

Project: KLB PO 0005

Lab ID: 1706132-004

Matrix: Soil

Client Sample ID: PR-TP-5-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Ethylbenzene	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
m,p-Xylene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
o-Xylene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Styrene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Isopropylbenzene	ND	0.0915		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Bromoform	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,1,2,2-Tetrachloroethane	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
n-Propylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Bromobenzene	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,3,5-Trimethylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
2-Chlorotoluene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
4-Chlorotoluene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
tert-Butylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2,3-Trichloropropane	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2,4-Trichlorobenzene	ND	0.0572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
sec-Butylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
4-Isopropyltoluene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,3-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,4-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
n-Butylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2-Dichlorobenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2-Dibromo-3-chloropropane	ND	0.572		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2,4-Trimethylbenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Hexachlorobutadiene	ND	0.114		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Naphthalene	ND	0.0343		mg/Kg-dry	1	6/13/2017 1:54:20 AM
1,2,3-Trichlorobenzene	ND	0.0229		mg/Kg-dry	1	6/13/2017 1:54:20 AM
Surr: Dibromofluoromethane	89.9	56.5-129		%Rec	1	6/13/2017 1:54:20 AM
Surr: Toluene-d8	116	64.5-151		%Rec	1	6/13/2017 1:54:20 AM
Surr: 1-Bromo-4-fluorobenzene	95.0	63.1-141		%Rec	1	6/13/2017 1:54:20 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Mercury by EPA Method 7471

Batch ID: 17334

Analyst: WF

Mercury	ND	0.302		mg/Kg-dry	1	6/13/2017 2:03:15 PM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 9:25:00 AM

Project: KLB PO 0005

Lab ID: 1706132-004

Matrix: Soil

Client Sample ID: PR-TP-5-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Total Metals by EPA Method 6020

Batch ID: 17342

Analyst: TN

Arsenic	6.03	0.0983		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Barium	73.0	0.491		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Cadmium	ND	0.197		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Chromium	46.4	0.0983		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Lead	16.9	0.197		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Selenium	1.18	0.491		mg/Kg-dry	1	6/13/2017 4:55:10 PM
Silver	ND	0.0983		mg/Kg-dry	1	6/13/2017 4:55:10 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763

Analyst: BB

Percent Moisture	20.5	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:20:00 AM

Project: KLB PO 0005

Lab ID: 1706132-007

Matrix: Soil

Client Sample ID: PR-TP-7-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	19.5		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Mineral Spirits	ND	29.2		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Kerosene	ND	48.7		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Diesel (Fuel Oil)	ND	48.7		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Heavy Oil	ND	97.4		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Mineral Oil	ND	97.4		mg/Kg-dry	1	6/12/2017 10:01:10 PM
Surr: 2-Fluorobiphenyl	121	50-150		%Rec	1	6/12/2017 10:01:10 PM
Surr: o-Terphenyl	124	50-150		%Rec	1	6/12/2017 10:01:10 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0649	Q	mg/Kg-dry	1	6/13/2017 2:51:29 AM
Chloromethane	ND	0.0649		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Vinyl chloride	ND	0.00216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Bromomethane	ND	0.0974		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Trichlorofluoromethane (CFC-11)	ND	0.0541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Chloroethane	ND	0.0649		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1-Dichloroethene	ND	0.0541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Methylene chloride	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
trans-1,2-Dichloroethene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Methyl tert-butyl ether (MTBE)	ND	0.0541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1-Dichloroethane	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
2,2-Dichloropropane	ND	0.0541	Q	mg/Kg-dry	1	6/13/2017 2:51:29 AM
cis-1,2-Dichloroethene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Chloroform	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1,1-Trichloroethane (TCA)	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1-Dichloropropene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Carbon tetrachloride	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2-Dichloroethane (EDC)	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Benzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Trichloroethene (TCE)	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2-Dichloropropane	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Bromodichloromethane	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Dibromomethane	ND	0.0433		mg/Kg-dry	1	6/13/2017 2:51:29 AM
cis-1,3-Dichloropropene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Toluene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
trans-1,3-Dichloropropylene	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1,2-Trichloroethane	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,3-Dichloropropane	ND	0.0541		mg/Kg-dry	1	6/13/2017 2:51:29 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:20:00 AM

Project: KLB PO 0005

Lab ID: 1706132-007

Matrix: Soil

Client Sample ID: PR-TP-7-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Tetrachloroethene (PCE)	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Dibromochloromethane	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2-Dibromoethane (EDB)	ND	0.00541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Chlorobenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1,1,2-Tetrachloroethane	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Ethylbenzene	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
m,p-Xylene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
o-Xylene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Styrene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Isopropylbenzene	ND	0.0865		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Bromoform	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,1,2,2-Tetrachloroethane	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
n-Propylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Bromobenzene	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,3,5-Trimethylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
2-Chlorotoluene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
4-Chlorotoluene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
tert-Butylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2,3-Trichloropropane	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2,4-Trichlorobenzene	ND	0.0541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
sec-Butylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
4-Isopropyltoluene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,3-Dichlorobenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,4-Dichlorobenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
n-Butylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2-Dichlorobenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2-Dibromo-3-chloropropane	ND	0.541		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2,4-Trimethylbenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Hexachlorobutadiene	ND	0.108		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Naphthalene	ND	0.0325		mg/Kg-dry	1	6/13/2017 2:51:29 AM
1,2,3-Trichlorobenzene	ND	0.0216		mg/Kg-dry	1	6/13/2017 2:51:29 AM
Surr: Dibromofluoromethane	89.5	56.5-129		%Rec	1	6/13/2017 2:51:29 AM
Surr: Toluene-d8	97.6	64.5-151		%Rec	1	6/13/2017 2:51:29 AM
Surr: 1-Bromo-4-fluorobenzene	94.8	63.1-141		%Rec	1	6/13/2017 2:51:29 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:20:00 AM

Project: KLB PO 0005

Lab ID: 1706132-007

Matrix: Soil

Client Sample ID: PR-TP-7-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Mercury by EPA Method 7471

Batch ID: 17334 Analyst: WF

Mercury	ND	0.272		mg/Kg-dry	1	6/13/2017 2:04:51 PM

Total Metals by EPA Method 6020

Batch ID: 17342 Analyst: TN

Arsenic	2.81	0.0851		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Barium	40.7	0.425		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Cadmium	ND	0.170		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Chromium	29.9	0.0851		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Lead	11.5	0.170		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Selenium	0.935	0.425		mg/Kg-dry	1	6/13/2017 4:59:12 PM
Silver	ND	0.0851		mg/Kg-dry	1	6/13/2017 4:59:12 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	11.6	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:30:00 AM

Project: KLB PO 0005

Lab ID: 1706132-008

Matrix: Soil

Client Sample ID: PR-TP-7-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	21.3		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Mineral Spirits	ND	32.0		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Kerosene	ND	53.4		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Diesel (Fuel Oil)	ND	53.4		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Heavy Oil	ND	107		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Mineral Oil	ND	107		mg/Kg-dry	1	6/12/2017 10:30:34 PM
Surr: 2-Fluorobiphenyl	123	50-150		%Rec	1	6/12/2017 10:30:34 PM
Surr: o-Terphenyl	126	50-150		%Rec	1	6/12/2017 10:30:34 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0642	Q	mg/Kg-dry	1	6/13/2017 3:20:05 AM
Chloromethane	ND	0.0642		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Vinyl chloride	ND	0.00214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Bromomethane	ND	0.0963		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Trichlorofluoromethane (CFC-11)	ND	0.0535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Chloroethane	ND	0.0642		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1-Dichloroethene	ND	0.0535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Methylene chloride	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
trans-1,2-Dichloroethene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Methyl tert-butyl ether (MTBE)	ND	0.0535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1-Dichloroethane	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
2,2-Dichloropropane	ND	0.0535	Q	mg/Kg-dry	1	6/13/2017 3:20:05 AM
cis-1,2-Dichloroethene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Chloroform	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1,1-Trichloroethane (TCA)	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1-Dichloropropene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Carbon tetrachloride	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2-Dichloroethane (EDC)	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Benzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Trichloroethene (TCE)	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2-Dichloropropane	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Bromodichloromethane	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Dibromomethane	ND	0.0428		mg/Kg-dry	1	6/13/2017 3:20:05 AM
cis-1,3-Dichloropropene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Toluene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
trans-1,3-Dichloropropylene	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1,2-Trichloroethane	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,3-Dichloropropane	ND	0.0535		mg/Kg-dry	1	6/13/2017 3:20:05 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:30:00 AM

Project: KLB PO 0005

Lab ID: 1706132-008

Matrix: Soil

Client Sample ID: PR-TP-7-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Tetrachloroethene (PCE)	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Dibromochloromethane	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2-Dibromoethane (EDB)	ND	0.00535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Chlorobenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1,1,2-Tetrachloroethane	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Ethylbenzene	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
m,p-Xylene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
o-Xylene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Styrene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Isopropylbenzene	ND	0.0856		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Bromoform	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,1,2,2-Tetrachloroethane	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
n-Propylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Bromobenzene	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,3,5-Trimethylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
2-Chlorotoluene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
4-Chlorotoluene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
tert-Butylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2,3-Trichloropropane	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2,4-Trichlorobenzene	ND	0.0535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
sec-Butylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
4-Isopropyltoluene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,3-Dichlorobenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,4-Dichlorobenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
n-Butylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2-Dichlorobenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2-Dibromo-3-chloropropane	ND	0.535		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2,4-Trimethylbenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Hexachlorobutadiene	ND	0.107		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Naphthalene	ND	0.0321		mg/Kg-dry	1	6/13/2017 3:20:05 AM
1,2,3-Trichlorobenzene	ND	0.0214		mg/Kg-dry	1	6/13/2017 3:20:05 AM
Surr: Dibromofluoromethane	86.6	56.5-129		%Rec	1	6/13/2017 3:20:05 AM
Surr: Toluene-d8	116	64.5-151		%Rec	1	6/13/2017 3:20:05 AM
Surr: 1-Bromo-4-fluorobenzene	93.5	63.1-141		%Rec	1	6/13/2017 3:20:05 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 10:30:00 AM

Project: KLB PO 0005

Lab ID: 1706132-008

Matrix: Soil

Client Sample ID: PR-TP-7-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Mercury by EPA Method 7471

Batch ID: 17334 Analyst: WF

Mercury	ND	0.287		mg/Kg-dry	1	6/13/2017 2:06:28 PM

Total Metals by EPA Method 6020

Batch ID: 17342 Analyst: TN

Arsenic	3.00	0.0923		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Barium	36.2	0.461		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Cadmium	ND	0.185		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Chromium	21.9	0.0923		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Lead	6.03	0.185		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Selenium	0.708	0.461		mg/Kg-dry	1	6/13/2017 5:03:13 PM
Silver	ND	0.0923		mg/Kg-dry	1	6/13/2017 5:03:13 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	17.9	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 11:05:00 AM

Project: KLB PO 0005

Lab ID: 1706132-010

Matrix: Soil

Client Sample ID: PR-TP-8-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 17332

Analyst: SG

Diesel (Fuel Oil)	ND	21.4		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Heavy Oil	1,020	53.5		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Surr: 2-Fluorobiphenyl	120	50-150		%Rec	1	6/13/2017 2:25:04 AM
Surr: o-Terphenyl	124	50-150		%Rec	1	6/13/2017 2:25:04 AM

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	21.4		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Mineral Spirits	ND	32.1		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Kerosene	ND	53.5		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Diesel (Fuel Oil)	ND	53.5		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Heavy Oil	DETECT	107		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Mineral Oil	ND	107		mg/Kg-dry	1	6/13/2017 2:25:04 AM
Surr: 2-Fluorobiphenyl	120	50-150		%Rec	1	6/13/2017 2:25:04 AM
Surr: o-Terphenyl	124	50-150		%Rec	1	6/13/2017 2:25:04 AM

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Phenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Bis(2-chloroethyl) ether	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Chlorophenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
1,3-Dichlorobenzene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
1,4-Dichlorobenzene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
1,2-Dichlorobenzene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benzyl alcohol	ND	118	Q	µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Methylphenol (o-cresol)	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Hexachloroethane	ND	118	Q	µg/Kg-dry	1	6/13/2017 12:22:57 AM
N-Nitrosodi-n-propylamine	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Nitrobenzene	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Isophorone	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
3&4-Methylphenol (m, p-cresol)	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Nitrophenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4-Dimethylphenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Bis(2-chloroethoxy)methane	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4-Dichlorophenol	ND	118	Q	µg/Kg-dry	1	6/13/2017 12:22:57 AM
1,2,4-Trichlorobenzene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Naphthalene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
4-Chloroaniline	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Hexachlorobutadiene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 11:05:00 AM

Project: KLB PO 0005

Lab ID: 1706132-010

Matrix: Soil

Client Sample ID: PR-TP-8-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

4-Chloro-3-methylphenol	ND	236		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Methylnaphthalene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
1-Methylnaphthalene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Hexachlorocyclopentadiene	ND	118	Q	µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4,6-Trichlorophenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4,5-Trichlorophenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Chloronaphthalene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2-Nitroaniline	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Acenaphthene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Dimethylphthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,6-Dinitrotoluene	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Acenaphthylene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4-Dinitrophenol	ND	236		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Dibenzofuran	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
2,4-Dinitrotoluene	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
4-Nitrophenol	ND	590		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Fluorene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
4-Chlorophenyl phenyl ether	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Diethylphthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
4,6-Dinitro-2-methylphenol	ND	236	Q	µg/Kg-dry	1	6/13/2017 12:22:57 AM
4-Bromophenyl phenyl ether	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Hexachlorobenzene	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Pentachlorophenol	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Phenanthrene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Anthracene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Carbazole	ND	88.4		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Di-n-butylphthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Fluoranthene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Pyrene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Butyl Benzylphthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
bis(2-Ethylhexyl)adipate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benz (a) anthracene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Chrysene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
bis (2-Ethylhexyl) phthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Di-n-octyl phthalate	ND	118		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benzo (b) fluoranthene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benzo (k) fluoranthene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benzo (a) pyrene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Indeno (1,2,3-cd) pyrene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 11:05:00 AM

Project: KLB PO 0005

Lab ID: 1706132-010

Matrix: Soil

Client Sample ID: PR-TP-8-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Semi-Volatile Organic Compounds by EPA Method 8270

Batch ID: 17333

Analyst: BT

Dibenz (a,h) anthracene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Benzo (g,h,i) perylene	ND	59.0		µg/Kg-dry	1	6/13/2017 12:22:57 AM
Surr: 2,4,6-Tribromophenol	150	14.8-165		%Rec	1	6/13/2017 12:22:57 AM
Surr: 2-Fluorobiphenyl	72.9	15-123		%Rec	1	6/13/2017 12:22:57 AM
Surr: Nitrobenzene-d5	80.3	10-133		%Rec	1	6/13/2017 12:22:57 AM
Surr: Phenol-d6	106	11.6-133		%Rec	1	6/13/2017 12:22:57 AM
Surr: p-Terphenyl	98.5	26.7-159		%Rec	1	6/13/2017 12:22:57 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0727	Q	mg/Kg-dry	1	6/13/2017 3:48:41 AM
Chloromethane	ND	0.0727		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Vinyl chloride	ND	0.00242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Bromomethane	ND	0.109		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Trichlorofluoromethane (CFC-11)	ND	0.0606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Chloroethane	ND	0.0727		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1-Dichloroethene	ND	0.0606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Methylene chloride	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
trans-1,2-Dichloroethene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Methyl tert-butyl ether (MTBE)	ND	0.0606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1-Dichloroethane	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
2,2-Dichloropropane	ND	0.0606	Q	mg/Kg-dry	1	6/13/2017 3:48:41 AM
cis-1,2-Dichloroethene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Chloroform	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1,1-Trichloroethane (TCA)	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1-Dichloropropene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Carbon tetrachloride	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2-Dichloroethane (EDC)	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Benzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Trichloroethene (TCE)	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2-Dichloropropane	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Bromodichloromethane	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Dibromomethane	ND	0.0484		mg/Kg-dry	1	6/13/2017 3:48:41 AM
cis-1,3-Dichloropropene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Toluene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
trans-1,3-Dichloropropylene	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 11:05:00 AM

Project: KLB PO 0005

Lab ID: 1706132-010

Matrix: Soil

Client Sample ID: PR-TP-8-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

1,1,2-Trichloroethane	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,3-Dichloropropane	ND	0.0606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Tetrachloroethene (PCE)	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Dibromochloromethane	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2-Dibromoethane (EDB)	ND	0.00606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Chlorobenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1,1,2-Tetrachloroethane	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Ethylbenzene	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
m,p-Xylene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
o-Xylene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Styrene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Isopropylbenzene	ND	0.0969		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Bromoform	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,1,2,2-Tetrachloroethane	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
n-Propylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Bromobenzene	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,3,5-Trimethylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
2-Chlorotoluene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
4-Chlorotoluene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
tert-Butylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2,3-Trichloropropane	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2,4-Trichlorobenzene	ND	0.0606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
sec-Butylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
4-Isopropyltoluene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,3-Dichlorobenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,4-Dichlorobenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
n-Butylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2-Dichlorobenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2-Dibromo-3-chloropropane	ND	0.606		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2,4-Trimethylbenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Hexachlorobutadiene	ND	0.121		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Naphthalene	ND	0.0363		mg/Kg-dry	1	6/13/2017 3:48:41 AM
1,2,3-Trichlorobenzene	ND	0.0242		mg/Kg-dry	1	6/13/2017 3:48:41 AM
Surr: Dibromofluoromethane	89.2	56.5-129		%Rec	1	6/13/2017 3:48:41 AM
Surr: Toluene-d8	98.8	64.5-151		%Rec	1	6/13/2017 3:48:41 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	63.1-141		%Rec	1	6/13/2017 3:48:41 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 11:05:00 AM

Project: KLB PO 0005

Lab ID: 1706132-010

Matrix: Soil

Client Sample ID: PR-TP-8-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Mercury by EPA Method 7471

Batch ID: 17334 Analyst: WF

Mercury	ND	0.292		mg/Kg-dry	1	6/13/2017 2:08:05 PM

Total Metals by EPA Method 6020

Batch ID: 17342 Analyst: TN

Arsenic	5.13	0.0984		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Barium	60.2	0.492		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Cadmium	ND	0.197		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Chromium	42.0	0.0984		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Lead	17.6	0.197		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Selenium	1.40	0.492		mg/Kg-dry	1	6/13/2017 5:07:15 PM
Silver	ND	0.0984		mg/Kg-dry	1	6/13/2017 5:07:15 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	20.6	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:30:00 PM

Project: KLB PO 0005

Lab ID: 1706132-015

Matrix: Soil

Client Sample ID: PR-TP-11-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	19.6		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Mineral Spirits	ND	29.3		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Kerosene	ND	48.9		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Diesel (Fuel Oil)	ND	48.9		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Heavy Oil	ND	97.8		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Mineral Oil	ND	97.8		mg/Kg-dry	1	6/12/2017 10:59:59 PM
Surr: 2-Fluorobiphenyl	114	50-150		%Rec	1	6/12/2017 10:59:59 PM
Surr: o-Terphenyl	122	50-150		%Rec	1	6/12/2017 10:59:59 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0633	Q	mg/Kg-dry	1	6/13/2017 4:17:18 AM
Chloromethane	ND	0.0633		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Vinyl chloride	ND	0.00211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Bromomethane	ND	0.0949		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Trichlorofluoromethane (CFC-11)	ND	0.0527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Chloroethane	ND	0.0633		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1-Dichloroethene	ND	0.0527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Methylene chloride	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
trans-1,2-Dichloroethene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Methyl tert-butyl ether (MTBE)	ND	0.0527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1-Dichloroethane	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
2,2-Dichloropropane	ND	0.0527	Q	mg/Kg-dry	1	6/13/2017 4:17:18 AM
cis-1,2-Dichloroethene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Chloroform	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1,1-Trichloroethane (TCA)	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1-Dichloropropene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Carbon tetrachloride	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2-Dichloroethane (EDC)	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Benzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Trichloroethene (TCE)	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2-Dichloropropane	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Bromodichloromethane	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Dibromomethane	ND	0.0422		mg/Kg-dry	1	6/13/2017 4:17:18 AM
cis-1,3-Dichloropropene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Toluene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
trans-1,3-Dichloropropylene	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1,2-Trichloroethane	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,3-Dichloropropane	ND	0.0527		mg/Kg-dry	1	6/13/2017 4:17:18 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:30:00 PM

Project: KLB PO 0005

Lab ID: 1706132-015

Matrix: Soil

Client Sample ID: PR-TP-11-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Tetrachloroethene (PCE)	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Dibromochloromethane	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2-Dibromoethane (EDB)	ND	0.00527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Chlorobenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1,1,2-Tetrachloroethane	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Ethylbenzene	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
m,p-Xylene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
o-Xylene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Styrene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Isopropylbenzene	ND	0.0844		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Bromoform	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,1,2,2-Tetrachloroethane	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
n-Propylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Bromobenzene	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,3,5-Trimethylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
2-Chlorotoluene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
4-Chlorotoluene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
tert-Butylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2,3-Trichloropropane	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2,4-Trichlorobenzene	ND	0.0527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
sec-Butylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
4-Isopropyltoluene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,3-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,4-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
n-Butylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2-Dichlorobenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2-Dibromo-3-chloropropane	ND	0.527		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2,4-Trimethylbenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Hexachlorobutadiene	ND	0.105		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Naphthalene	ND	0.0316		mg/Kg-dry	1	6/13/2017 4:17:18 AM
1,2,3-Trichlorobenzene	ND	0.0211		mg/Kg-dry	1	6/13/2017 4:17:18 AM
Surr: Dibromofluoromethane	85.8	56.5-129		%Rec	1	6/13/2017 4:17:18 AM
Surr: Toluene-d8	117	64.5-151		%Rec	1	6/13/2017 4:17:18 AM
Surr: 1-Bromo-4-fluorobenzene	92.9	63.1-141		%Rec	1	6/13/2017 4:17:18 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:30:00 PM

Project: KLB PO 0005

Lab ID: 1706132-015

Matrix: Soil

Client Sample ID: PR-TP-11-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Mercury by EPA Method 7471

Batch ID: 17334 Analyst: WF

Mercury	ND	0.260		mg/Kg-dry	1	6/13/2017 2:09:48 PM

Total Metals by EPA Method 6020

Batch ID: 17342 Analyst: TN

Arsenic	2.68	0.0831		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Barium	37.9	0.415		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Cadmium	ND	0.166		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Chromium	30.8	0.0831		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Lead	28.6	0.166		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Selenium	0.965	0.415		mg/Kg-dry	1	6/13/2017 5:11:17 PM
Silver	ND	0.0831		mg/Kg-dry	1	6/13/2017 5:11:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	7.39	0.500		wt%	1	6/13/2017 8:10:01 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:48:00 PM

Project: KLB PO 0005

Lab ID: 1706132-016

Matrix: Soil

Client Sample ID: PR-TP-11-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Hydrocarbon Identification by NWTPH-HCID

Batch ID: 17332

Analyst: SG

Gasoline	ND	24.4		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Mineral Spirits	ND	36.7		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Kerosene	ND	61.1		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Diesel (Fuel Oil)	ND	61.1		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Heavy Oil	ND	122		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Mineral Oil	ND	122		mg/Kg-dry	1	6/12/2017 11:58:32 PM
Surr: 2-Fluorobiphenyl	117	50-150		%Rec	1	6/12/2017 11:58:32 PM
Surr: o-Terphenyl	122	50-150		%Rec	1	6/12/2017 11:58:32 PM

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Dichlorodifluoromethane (CFC-12)	ND	0.0694	Q	mg/Kg-dry	1	6/13/2017 4:45:52 AM
Chloromethane	ND	0.0694		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Vinyl chloride	ND	0.00231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Bromomethane	ND	0.104		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Trichlorofluoromethane (CFC-11)	ND	0.0578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Chloroethane	ND	0.0694		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1-Dichloroethene	ND	0.0578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Methylene chloride	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
trans-1,2-Dichloroethene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Methyl tert-butyl ether (MTBE)	ND	0.0578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1-Dichloroethane	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
2,2-Dichloropropane	ND	0.0578	Q	mg/Kg-dry	1	6/13/2017 4:45:52 AM
cis-1,2-Dichloroethene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Chloroform	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1,1-Trichloroethane (TCA)	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1-Dichloropropene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Carbon tetrachloride	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2-Dichloroethane (EDC)	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Benzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Trichloroethene (TCE)	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2-Dichloropropane	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Bromodichloromethane	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Dibromomethane	ND	0.0463		mg/Kg-dry	1	6/13/2017 4:45:52 AM
cis-1,3-Dichloropropene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Toluene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
trans-1,3-Dichloropropylene	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1,2-Trichloroethane	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,3-Dichloropropane	ND	0.0578		mg/Kg-dry	1	6/13/2017 4:45:52 AM



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:48:00 PM

Project: KLB PO 0005

Lab ID: 1706132-016

Matrix: Soil

Client Sample ID: PR-TP-11-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 17345

Analyst: NG

Tetrachloroethene (PCE)	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Dibromochloromethane	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2-Dibromoethane (EDB)	ND	0.00578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Chlorobenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1,1,2-Tetrachloroethane	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Ethylbenzene	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
m,p-Xylene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
o-Xylene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Styrene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Isopropylbenzene	ND	0.0925		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Bromoform	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,1,2,2-Tetrachloroethane	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
n-Propylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Bromobenzene	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,3,5-Trimethylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
2-Chlorotoluene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
4-Chlorotoluene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
tert-Butylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2,3-Trichloropropane	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2,4-Trichlorobenzene	ND	0.0578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
sec-Butylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
4-Isopropyltoluene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,3-Dichlorobenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,4-Dichlorobenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
n-Butylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2-Dichlorobenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2-Dibromo-3-chloropropane	ND	0.578		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2,4-Trimethylbenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Hexachlorobutadiene	ND	0.116		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Naphthalene	ND	0.0347		mg/Kg-dry	1	6/13/2017 4:45:52 AM
1,2,3-Trichlorobenzene	ND	0.0231		mg/Kg-dry	1	6/13/2017 4:45:52 AM
Surr: Dibromofluoromethane	87.6	56.5-129		%Rec	1	6/13/2017 4:45:52 AM
Surr: Toluene-d8	97.8	64.5-151		%Rec	1	6/13/2017 4:45:52 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	63.1-141		%Rec	1	6/13/2017 4:45:52 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

Work Order: 1706132
Date Reported: 6/14/2017

Client: O'Neill Service Group

Collection Date: 6/12/2017 12:48:00 PM

Project: KLB PO 0005

Lab ID: 1706132-016

Matrix: Soil

Client Sample ID: PR-TP-11-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed

Mercury by EPA Method 7471

Batch ID: 17334 Analyst: WF

Mercury	ND	0.307		mg/Kg-dry	1	6/13/2017 2:11:27 PM

Total Metals by EPA Method 6020

Batch ID: 17342 Analyst: TN

Arsenic	4.33	0.0952		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Barium	68.6	0.476		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Cadmium	ND	0.190		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Chromium	50.5	0.0952		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Lead	10.8	0.190		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Selenium	0.987	0.476		mg/Kg-dry	1	6/13/2017 5:15:18 PM
Silver	ND	0.0952		mg/Kg-dry	1	6/13/2017 5:15:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R36763 Analyst: BB

Percent Moisture	18.6	0.500		wt%	1	6/13/2017 8:10:01 AM

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID	MB-17332	SampType:	MBLK	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36756		
Client ID:	MBLKS	Batch ID:	17332			Analysis Date:	6/12/2017	SeqNo:	705449		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	22.5		20.00		113	50	150				
Surr: o-Terphenyl	23.2		20.00		116	50	150				

Sample ID	LCS-17332	SampType: LCS			Units: mg/Kg		Prep Date: 6/12/2017			RunNo: 36756		
Client ID:	LCSS	Batch ID: 17332			Analysis Date: 6/12/2017					SeqNo: 705450		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Diesel (Fuel Oil)	543	20.0	500.0	0	109	65	135				
Surr: 2-Fluorobiphenyl	22.8		20.00		114	50	150				
Surr: o-Terphenyl	25.0		20.00		125	50	150				

Sample ID	1706124-001ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36756		
Client ID:	BATCH	Batch ID:	17332	Analysis Date:	6/12/2017	SeqNo:	705452				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	21.8						0		30	
Heavy Oil	ND	54.5						0		30	
Surr: 2-Fluorobiphenyl	23.7		21.81		109	50	150		0		
Surr: o-Terphenyl	25.1		21.81		115	50	150		0		

Sample ID	1706124-001AMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36756		
Client ID:	BATCH	Batch ID:	17332			Analysis Date:	6/12/2017	SeqNo:	705462		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	566	21.0	525.9	0	108	65	135				
Surr: 2-Fluorobiphenyl	23.9		21.03		114	50	150				
Surr: o-Terphenyl	26.2		21.03		125	50	150				

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID	1706124-001AMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36756		
Client ID:	BATCH	Batch ID:	17332	Analysis Date:	6/12/2017	SeqNo:	705462				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	1706124-001AMSD	SampType:	MSD			Units:	mg/Kg-dry			Prep Date:	6/12/2017			RunNo:	36756		
Client ID:	BATCH	Batch ID:	17332						Analysis Date:	6/12/2017			SeqNo:	705463			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual				
Diesel (Fuel Oil)		587	21.0	525.9	0	112	65	135	565.9		3.70	30					
Surr: 2-Fluorobiphenyl		23.4		21.03		111	50	150			0						
Surr: o-Terphenyl		26.2		21.03		124	50	150			0						

Sample ID	1706132-015ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36756		
Client ID:	PR-TP-11-3	Batch ID:	17332			Analysis Date:	6/12/2017	SeqNo:	705785		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.8						0		30	
Heavy Oil	ND	52.0						0		30	
Surr: 2-Fluorobiphenyl	24.4		20.79		117	50	150		0		
Surr: o-Terphenyl	25.4		20.79		122	50	150		0		



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT
Hydrocarbon Identification by NWTPH-HCID

Sample ID	MB-17332	SampType:	MBLK		Units:	mg/Kg		Prep Date:	6/12/2017		RunNo:	36779	
Client ID:	MBLKS	Batch ID:	17332					Analysis Date:	6/12/2017		SeqNo:	705870	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Gasoline		ND	20.0										
Mineral Spirits		ND	30.0										
Kerosene		ND	50.0										
Diesel (Fuel Oil)		ND	50.0										
Heavy Oil		ND	100										
Mineral Oil		ND	100										
Surr: 2-Fluorobiphenyl		22.5		20.00		113	50	150					
Surr: o-Terphenyl		23.2		20.00		116	50	150					

Sample ID	LCS-17332	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36779		
Client ID:	LCSS	Batch ID:	17332	Analysis Date:				6/12/2017	SeqNo:	705871	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	543	50.0	500.0	0	109	65	135				
Surr: 2-Fluorobiphenyl	22.8		20.00		114	50	150				
Surr: o-Terphenyl	25.0		20.00		125	50	150				

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Mercury by EPA Method 7471

Sample ID	MB-17334	SampType:	MBLK	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36750		
Client ID:	MBLKS	Batch ID:	17334			Analysis Date:	6/13/2017	SeqNo:	706039		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.250

Sample ID	LCS-17334	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36750		
Client ID:	LCSS	Batch ID:	17334			Analysis Date:	6/13/2017	SeqNo:	706040		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.469 0.250 0.5000 0 93.8 80 120

Sample ID	1706056-001ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36750		
Client ID:	BATCH	Batch ID:	17334			Analysis Date:	6/13/2017	SeqNo:	706018		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.255 0 20

Sample ID	1706056-001AMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36750		
Client ID:	BATCH	Batch ID:	17334			Analysis Date:	6/13/2017	SeqNo:	706019		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.460 0.255 0.5100 0.01924 86.4 70 130

Sample ID	1706056-001AMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36750		
Client ID:	BATCH	Batch ID:	17334			Analysis Date:	6/13/2017	SeqNo:	706020		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.445 0.255 0.5100 0.01924 83.4 70 130 0.4600 3.38 20



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1706132-002ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/13/2017	RunNo:	36763		
Client ID:	PR-TP-4-8	Batch ID:	R36763			Analysis Date:	6/13/2017	SeqNo:	705586		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	23.1	0.500						26.19	12.6	20	

Sample ID	1706134-013ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/13/2017	RunNo:	36763		
Client ID:	BATCH	Batch ID:	R36763			Analysis Date:	6/13/2017	SeqNo:	705607		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	21.9	0.500						22.42	2.35	20	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT
Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17333	SampType:	MBLK		Units:	µg/Kg		Prep Date:	6/12/2017		RunNo:	36778	
Client ID:	MBLKS	Batch ID:	17333					Analysis Date:	6/12/2017		SeqNo:	705806	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Phenol	ND	100											
Bis(2-chloroethyl) ether	ND	100											
2-Chlorophenol	ND	100											
1,3-Dichlorobenzene	ND	75.0											
1,4-Dichlorobenzene	ND	75.0											
1,2-Dichlorobenzene	ND	75.0											
Benzyl alcohol	ND	100											Q
2-Methylphenol (o-cresol)	ND	100											
Hexachloroethane	ND	100											Q
N-Nitrosodi-n-propylamine	ND	100											
Nitrobenzene	ND	100											
Isophorone	ND	100											
3&4-Methylphenol (m, p-cresol)	ND	100											
2-Nitrophenol	ND	100											
2,4-Dimethylphenol	ND	100											
Bis(2-chloroethoxy)methane	ND	75.0											
2,4-Dichlorophenol	ND	100											Q
1,2,4-Trichlorobenzene	ND	75.0											
Naphthalene	ND	50.0											
4-Chloroaniline	ND	75.0											
Hexachlorobutadiene	ND	75.0											
4-Chloro-3-methylphenol	ND	200											
2-Methylnaphthalene	ND	50.0											
1-Methylnaphthalene	ND	50.0											
Hexachlorocyclopentadiene	ND	100											Q
2,4,6-Trichlorophenol	ND	100											
2,4,5-Trichlorophenol	ND	100											
2-Chloronaphthalene	ND	75.0											
2-Nitroaniline	ND	100											
Acenaphthene	ND	50.0											
Dimethylphthalate	ND	100											



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17333	SampType:	MBLK		Units:	µg/Kg		Prep Date:	6/12/2017		RunNo:	36778	
Client ID:	MBLKS	Batch ID:	17333					Analysis Date:	6/12/2017		SeqNo:	705806	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
2,6-Dinitrotoluene		ND	100										
Acenaphthylene		ND	50.0										
2,4-Dinitrophenol		ND	200										
Dibenzofuran		ND	75.0										
2,4-Dinitrotoluene		ND	100										
4-Nitrophenol		ND	500										
Fluorene		ND	50.0										
4-Chlorophenyl phenyl ether		ND	75.0										
Diethylphthalate		ND	100										
4,6-Dinitro-2-methylphenol		ND	200										Q
4-Bromophenyl phenyl ether		ND	75.0										
Hexachlorobenzene		ND	75.0										
Pentachlorophenol		ND	100										
Phenanthrene		ND	50.0										
Anthracene		ND	50.0										
Carbazole		ND	75.0										
Di-n-butylphthalate		ND	100										
Fluoranthene		ND	50.0										
Pyrene		ND	50.0										
Butyl Benzylphthalate		ND	100										
bis(2-Ethylhexyl)adipate		ND	100										
Benz (a) anthracene		ND	50.0										
Chrysene		ND	50.0										
bis (2-Ethylhexyl) phthalate		ND	100										
Di-n-octyl phthalate		ND	100										
Benzo (b) fluoranthene		ND	50.0										
Benzo (k) fluoranthene		ND	50.0										
Benzo (a) pyrene		ND	50.0										
Indeno (1,2,3-cd) pyrene		ND	50.0										
Dibenz (a,h) anthracene		ND	50.0										
Benzo (q,h,l) perylene		ND	50.0										

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	MB-17333	SampType:	MBLK	Units:	µg/Kg	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	MBLKS	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705806		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	932		1,000		93.2	14.8	165				
Surr: 2-Fluorobiphenyl	333		500.0		66.5	15	123				
Surr: Nitrobenzene-d5	199		500.0		39.7	10	133				
Surr: Phenol-d6	985		1,000		98.5	11.6	133				
Surr: p-Terphenyl	568		500.0		114	26.7	159				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	LCS-17333	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	LCSS	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705807		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	952	100	1,000	0	95.2	41.8	138				
Bis(2-chloroethyl) ether	998	100	1,000	0	99.8	49.8	141				
2-Chlorophenol	997	100	1,000	0	99.7	49.3	132				
1,3-Dichlorobenzene	910	75.0	1,000	0	91.0	35.9	128				
1,4-Dichlorobenzene	929	75.0	1,000	0	92.9	36.8	131				
1,2-Dichlorobenzene	913	75.0	1,000	0	91.3	41.8	128				
Benzyl alcohol	781	100	1,000	0	78.1	42.4	131				
2-Methylphenol (o-cresol)	936	100	1,000	0	93.6	47.2	134				
Hexachloroethane	956	100	1,000	0	95.6	25.4	144				
N-Nitrosodi-n-propylamine	1,040	100	1,000	0	104	39.8	135				
Nitrobenzene	1,030	100	1,000	0	103	50.3	136				
Isophorone	1,070	100	1,000	0	107	62.7	131				
3&4-Methylphenol (m, p-cresol)	480	100	500.0	0	96.1	57.4	131				
2-Nitrophenol	1,060	100	1,000	0	106	44.2	129				
2,4-Dimethylphenol	1,050	100	1,000	0	105	57.8	121				
Bis(2-chloroethoxy)methane	986	75.0	1,000	0	98.6	55.1	136				
2,4-Dichlorophenol	999	100	1,000	0	99.9	57.1	128				
1,2,4-Trichlorobenzene	953	75.0	1,000	0	95.3	36.2	140				
Naphthalene	966	50.0	1,000	0	96.6	52.9	131				



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	LCS-17333	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	LCSS	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705807		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloroaniline	975	75.0	1,000	0	97.5	10.4	130				
Hexachlorobutadiene	1,060	75.0	1,000	0	106	55.9	131				
4-Chloro-3-methylphenol	1,010	200	1,000	0	101	49.4	138				
2-Methylnaphthalene	998	50.0	1,000	0	99.8	56.3	132				
1-Methylnaphthalene	974	50.0	1,000	0	97.4	56.4	132				
Hexachlorocyclopentadiene	923	100	1,000	0	92.3	21	130				
2,4,6-Trichlorophenol	1,060	100	1,000	0	106	36.4	132				
2,4,5-Trichlorophenol	1,060	100	1,000	0	106	34.6	133				
2-Chloronaphthalene	983	75.0	1,000	0	98.3	33	120				
2-Nitroaniline	1,210	100	1,000	0	121	43.9	135				
Acenaphthene	1,020	50.0	1,000	0	102	49.2	127				
Dimethylphthalate	1,050	100	1,000	0	105	60.9	140				
2,6-Dinitrotoluene	1,110	100	1,000	0	111	54.6	127				
Acenaphthylene	1,000	50.0	1,000	0	100	53.7	137				
2,4-Dinitrophenol	1,040	200	2,000	0	52.0	7.9	119				
Dibenzofuran	967	75.0	1,000	0	96.7	38.2	125				
2,4-Dinitrotoluene	1,160	100	1,000	0	116	21.9	136				
4-Nitrophenol	882	500	1,000	0	88.2	25.4	138				
Fluorene	962	50.0	1,000	0	96.2	64.8	126				
4-Chlorophenyl phenyl ether	972	75.0	1,000	0	97.2	58.2	131				
Diethylphthalate	1,080	100	1,000	0	108	42.9	132				
4,6-Dinitro-2-methylphenol	771	200	1,000	0	77.1	12.9	110				
4-Bromophenyl phenyl ether	990	75.0	1,000	0	99.0	61.8	128				
Hexachlorobenzene	1,010	75.0	1,000	0	101	56.7	131				
Pentachlorophenol	687	100	1,000	0	68.7	10	123				
Phenanthrene	945	50.0	1,000	0	94.5	61.2	130				
Anthracene	969	50.0	1,000	0	96.9	59.2	135				
Carbazole	983	75.0	1,000	0	98.3	37	148				
Di-n-butylphthalate	1,130	100	1,000	0	113	46.6	145				
Fluoranthene	1,000	50.0	1,000	0	100	56.6	135				
Pyrene	970	50.0	1,000	0	97.0	45.4	140				

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	LCS-17333	SampType:	LCS	Units:	µg/Kg	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	LCSS	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705807		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Butyl Benzylphthalate	1,190	100	1,000	0	119	31.1	157				
bis(2-Ethylhexyl)adipate	1,230	100	1,000	0	123	28.7	160				
Benz (a) anthracene	987	50.0	1,000	0	98.7	44	150				
Chrysene	970	50.0	1,000	0	97.0	58.9	129				
bis (2-Ethylhexyl) phthalate	1,260	100	1,000	0	126	36.3	149				
Di-n-octyl phthalate	1,310	100	1,000	0	131	31.5	152				
Benzo (b) fluoranthene	1,000	50.0	1,000	0	100	45.6	146				
Benzo (k) fluoranthene	1,010	50.0	1,000	0	101	45.5	138				
Benzo (a) pyrene	1,060	50.0	1,000	0	106	35.6	148				
Indeno (1,2,3-cd) pyrene	1,060	50.0	1,000	0	106	44.2	146				
Dibenz (a,h) anthracene	1,070	50.0	1,000	0	107	37.5	152				
Benzo (g,h,i) perylene	1,030	50.0	1,000	0	103	24.1	156				
Surr: 2,4,6-Tribromophenol	1,360		1,000		136	14.8	165				
Surr: 2-Fluorobiphenyl	272		500.0		54.3	15	123				
Surr: Nitrobenzene-d5	197		500.0		39.4	10	133				
Surr: Phenol-d6	1,100		1,000		110	11.6	133				
Surr: p-Terphenyl	559		500.0		112	26.7	159				

Sample ID	1706062-002ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705809		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	139						0		50	
Bis(2-chloroethyl) ether	ND	139						0		50	
2-Chlorophenol	ND	139						0		50	
1,3-Dichlorobenzene	ND	104						0		50	
1,4-Dichlorobenzene	ND	104						0		50	
1,2-Dichlorobenzene	ND	104						0		50	
Benzyl alcohol	ND	139						0		50	Q
2-Methylphenol (o-cresol)	ND	139						0		50	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705809		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloroethane	ND	139						0		50	Q
N-Nitrosodi-n-propylamine	ND	139						0		50	
Nitrobenzene	ND	139						0		50	
Isophorone	ND	139						0		50	
3&4-Methylphenol (m, p-cresol)	ND	139						0		50	
2-Nitrophenol	ND	139						0		50	
2,4-Dimethylphenol	ND	139						146.4	80.8	50	
Bis(2-chloroethoxy)methane	ND	104						0		50	
2,4-Dichlorophenol	ND	139						0		50	Q
1,2,4-Trichlorobenzene	ND	104						0		50	
Naphthalene	ND	69.3						0		50	
4-Chloroaniline	ND	104						0		50	
Hexachlorobutadiene	ND	104						0		50	
4-Chloro-3-methylphenol	ND	277						0		50	
2-Methylnaphthalene	ND	69.3						0		50	
1-Methylnaphthalene	ND	69.3						0		50	
Hexachlorocyclopentadiene	ND	139						0		50	Q
2,4,6-Trichlorophenol	ND	139						0		50	
2,4,5-Trichlorophenol	ND	139						0		50	
2-Chloronaphthalene	ND	104						0		50	
2-Nitroaniline	ND	139						0		50	
Acenaphthene	ND	69.3						0		50	
Dimethylphthalate	ND	139						0		50	
2,6-Dinitrotoluene	ND	139						0		50	
Acenaphthylene	ND	69.3						0		50	
2,4-Dinitrophenol	ND	277						0		50	
Dibenzofuran	ND	104						0		50	
2,4-Dinitrotoluene	ND	139						0		50	
4-Nitrophenol	ND	693						0		50	
Fluorene	ND	69.3						0		50	
4-Chlorophenyl phenyl ether	ND	104						0		50	

Work Order: 1706132
CLIENT: O'Neill Service Group
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QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705809		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	402	139						865.6	73.1	50	R
4,6-Dinitro-2-methylphenol	ND	277						0		50	Q
4-Bromophenyl phenyl ether	ND	104						0		50	
Hexachlorobenzene	ND	104						0		50	
Pentachlorophenol	ND	139						0		50	
Phenanthrene	ND	69.3						116.9	56.1	50	
Anthracene	ND	69.3						0		50	
Carbazole	ND	104						0		50	
Di-n-butylphthalate	ND	139						0		50	
Fluoranthene	176	69.3						388.6	75.2	50	R
Pyrene	244	69.3						468.4	63.1	50	R
Butyl Benzylphthalate	ND	139						0		50	
bis(2-Ethylhexyl)adipate	ND	139						0		50	
Benz (a) anthracene	ND	69.3						167.8	92.0	50	R
Chrysene	160	69.3						322.5	67.5	50	R
bis (2-Ethylhexyl) phthalate	ND	139						0		50	
Di-n-octyl phthalate	ND	139						0		50	
Benzo (b) fluoranthene	212	69.3						325.3	42.2	50	R
Benzo (k) fluoranthene	ND	69.3						92.15	82.4	50	
Benzo (a) pyrene	ND	69.3						0		50	
Indeno (1,2,3-cd) pyrene	83.4	69.3						143.6	53.1	50	
Dibenz (a,h) anthracene	ND	69.3						0		50	I
Benzo (g,h,i) perylene	70.6	69.3						119.9	51.8	50	I
Surr: 2,4,6-Tribromophenol	1,870		1,385		135	14.8	165		0		
Surr: 2-Fluorobiphenyl	525		692.5		75.9	15	123		0		
Surr: Nitrobenzene-d5	576		692.5		83.1	10	133		0		
Surr: Phenol-d6	1,220		1,385		88.1	11.6	133		0		
Surr: p-Terphenyl	640		692.5		92.4	26.7	159		0		

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QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705809		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

R - High RPD due to suspected sample inhomogeneity. The method is in control as indicated by the Laboratory Control Sample (LCS).

I - Internal standards were outside of established acceptance criteria. Re-analysis and/or matrix spike samples yielded the same result indicating a possible matrix effect.

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

S - Outlying surrogate recovery(ies) observed.

Sample ID	1706062-002AMS	SampType: MS		Units: µg/Kg-dry		Prep Date: 6/12/2017			RunNo: 36778		
Client ID:	BATCH	Batch ID: 17333		Analysis Date: 6/12/2017					SeqNo: 705810		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	1,140	138	1,376	48.68	79.3	29.2	146				
Bis(2-chloroethyl) ether	1,000	138	1,376	0	73.0	34.4	135				
2-Chlorophenol	1,160	138	1,376	0	84.6	44	134				
1,3-Dichlorobenzene	854	103	1,376	0	62.1	21.1	133				
1,4-Dichlorobenzene	843	103	1,376	0	61.3	20.9	131				
1,2-Dichlorobenzene	863	103	1,376	0	62.7	35	131				
Benzyl alcohol	1,070	138	1,376	0	77.8	30.8	159				
2-Methylphenol (o-cresol)	1,190	138	1,376	0	86.8	39.9	125				
Hexachloroethane	387	138	1,376	0	28.1	15.4	139				
N-Nitrosodi-n-propylamine	1,460	138	1,376	0	106	26.4	151				
Nitrobenzene	1,280	138	1,376	0	93.2	61.4	130				
Isophorone	1,350	138	1,376	0	98.4	61.8	132				
3&4-Methylphenol (m, p-cresol)	593	138	687.8	0	86.1	37.6	125				
2-Nitrophenol	1,370	138	1,376	0	99.7	33.5	132				
2,4-Dimethylphenol	1,220	138	1,376	146.4	78.1	46	158				
Bis(2-chloroethoxy)methane	1,100	103	1,376	0	80.1	46.8	121				
2,4-Dichlorophenol	838	138	1,376	0	60.9	33.9	133				
1,2,4-Trichlorobenzene	987	103	1,376	0	71.8	29.2	140				
Naphthalene	950	68.8	1,376	0	69.0	44.4	136				
4-Chloroaniline	935	103	1,376	0	68.0	27	126				
Hexachlorobutadiene	1,190	103	1,376	0	86.3	38.2	138				



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QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705810		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	1,300	275	1,376	0	94.6	36.8	159				
2-Methylnaphthalene	1,270	68.8	1,376	0	92.3	51.7	138				
1-Methylnaphthalene	1,520	68.8	1,376	0	110	51.8	131				
Hexachlorocyclopentadiene	ND	138	1,376	0	0	10	133				S
2,4,6-Trichlorophenol	1,080	138	1,376	0	78.7	34.6	129				
2,4,5-Trichlorophenol	1,000	138	1,376	0	72.7	54.7	127				
2-Chloronaphthalene	1,140	103	1,376	0	83.2	42.1	124				
2-Nitroaniline	1,710	138	1,376	0	124	39.3	145				
Acenaphthene	1,150	68.8	1,376	0	83.6	49.6	129				
Dimethylphthalate	1,310	138	1,376	42.23	92.1	32.9	137				
2,6-Dinitrotoluene	1,400	138	1,376	0	102	30.3	136				
Acenaphthylene	1,170	68.8	1,376	0	85.0	39.9	129				
2,4-Dinitrophenol	718	275	2,751	0	26.1	10	149				
Dibenzofuran	1,100	103	1,376	0	80.0	41.2	128				
2,4-Dinitrotoluene	1,350	138	1,376	0	98.3	30.9	139				
4-Nitrophenol	1,180	688	1,376	0	86.1	15.6	160				
Fluorene	1,120	68.8	1,376	0	81.6	37.7	133				
4-Chlorophenyl phenyl ether	1,160	103	1,376	0	84.1	70.9	128				
Diethylphthalate	1,810	138	1,376	865.6	68.5	36.7	130				
4,6-Dinitro-2-methylphenol	481	275	1,376	0	35.0	21.9	143				
4-Bromophenyl phenyl ether	1,120	103	1,376	0	81.2	69.6	136				
Hexachlorobenzene	1,110	103	1,376	0	81.0	34.3	131				
Pentachlorophenol	1,610	138	1,376	0	117	28.2	156				
Phenanthrene	1,150	68.8	1,376	116.9	75.3	32.2	139				
Anthracene	1,130	68.8	1,376	0	82.2	43.9	128				
Carbazole	1,150	103	1,376	0	83.6	64.1	152				
Di-n-butylphthalate	1,510	138	1,376	0	110	35.1	142				
Fluoranthene	1,310	68.8	1,376	388.6	66.6	33.8	141				
Pyrene	1,320	68.8	1,376	468.4	62.0	31.4	151				
Butyl Benzylphthalate	1,780	138	1,376	0	129	30.4	138				
bis(2-Ethylhexyl)adipate	1,930	138	1,376	0	140	32	136				S

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QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002AMS	SampType: MS	Units: µg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36778		
Client ID:	BATCH	Batch ID: 17333				Analysis Date: 6/12/2017			SeqNo: 705810		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benz (a) anthracene	1,120	68.8	1,376	167.8	69.2	36	138				
Chrysene	1,260	68.8	1,376	322.5	68.0	41.6	125				
bis (2-Ethylhexyl) phthalate	2,260	138	1,376	0	165	40.8	170				
Di-n-octyl phthalate	1,960	138	1,376	0	142	34.6	142				S
Benzo (b) fluoranthene	1,090	68.8	1,376	325.3	55.5	52.1	136				
Benzo (k) fluoranthene	747	68.8	1,376	92.15	47.6	45	140				
Benzo (a) pyrene	767	68.8	1,376	0	55.8	50.5	137				
Indeno (1,2,3-cd) pyrene	764	68.8	1,376	143.6	45.1	38.1	155				
Dibenz (a,h) anthracene	672	68.8	1,376	0	48.8	40.7	152				I
Benzo (g,h,l) perylene	620	68.8	1,376	119.9	36.3	34	157				I
Surr: 2,4,6-Tribromophenol	1,800		1,376		131	14.8	165				
Surr: 2-Fluorobiphenyl	623		687.8		90.6	15	123				
Surr: Nitrobenzene-d5	671		687.8		97.6	10	133				
Surr: Phenol-d6	1,330		1,376		96.7	11.6	133				
Surr: p-Terphenyl	654		687.8		95.0	26.7	159				

NOTES:

S - Outlying spike recovery(ies) observed for Hexachlorocyclopentadiene and bis(2-Ethylhexyl)adipate. A duplicate analysis was performed with similar results indicating a possible matrix effect.

S - Outlying spike recovery observed for Di-n-octyl phthalate. A duplicate analysis was performed and recovered within range.

I - Internal standards were outside of established acceptance criteria. Re-analysis and/or matrix spike samples yielded the same result indicating a possible matrix effect.

Sample ID	1706062-002AMSD	SampType:	MSD	Units:			µg/Kg-dry	Prep Date:	6/12/2017	RunNo:			36778
Client ID:	BATCH	Batch ID:	17333					Analysis Date:	6/12/2017	SeqNo:			705811
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Phenol	1,140	127	1,267	48.68	85.9	29.2	146	1,139	0.140	50			
Bis(2-chloroethyl) ether	1,050	127	1,267	0	82.8	34.4	135	1,004	4.29	50			
2-Chlorophenol	1,150	127	1,267	0	90.7	44	134	1,164	1.34	50			
1,3-Dichlorobenzene	940	95.0	1,267	0	74.2	21.1	133	854.0	9.59	50			
1,4-Dichlorobenzene	940	95.0	1,267	0	74.2	20.9	131	843.1	10.9	50			
1,2-Dichlorobenzene	957	95.0	1,267	0	75.5	35	131	862.5	10.4	50			
Benzyl alcohol	990	127	1,267	0	78.2	30.8	159	1,071	7.79	50			



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CLIENT: O'Neill Service Group
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Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36778		
Client ID:	BATCH	Batch ID:	17333	Analysis Date: 6/12/2017					SeqNo: 705811		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Methylphenol (o-cresol)	1,160	127	1,267	0	91.3	39.9	125	1,194	3.24	50	
Hexachloroethane	277	127	1,267	0	21.9	15.4	139	386.8	33.0	50	
N-Nitrosodi-n-propylamine	1,470	127	1,267	0	116	26.4	151	1,461	0.550	50	
Nitrobenzene	1,300	127	1,267	0	103	61.4	130	1,283	1.40	50	
Isophorone	1,400	127	1,267	0	110	61.8	132	1,354	3.12	50	
3&4-Methylphenol (m, p-cresol)	549	127	633.4	0	86.7	37.6	125	592.5	7.55	50	
2-Nitrophenol	1,380	127	1,267	0	109	33.5	132	1,371	0.475	50	
2,4-Dimethylphenol	1,240	127	1,267	146.4	86.7	46	158	1,221	1.92	50	
Bis(2-chloroethoxy)methane	1,160	95.0	1,267	0	91.5	46.8	121	1,102	5.03	50	
2,4-Dichlorophenol	785	127	1,267	0	62.0	33.9	133	838.1	6.50	50	
1,2,4-Trichlorobenzene	1,030	95.0	1,267	0	81.2	29.2	140	987.3	4.10	50	
Naphthalene	930	63.3	1,267	0	73.4	44.4	136	949.5	2.07	50	
4-Chloroaniline	853	95.0	1,267	0	67.3	27	126	934.8	9.17	50	
Hexachlorobutadiene	1,070	95.0	1,267	0	84.6	38.2	138	1,187	10.2	50	
4-Chloro-3-methylphenol	1,130	253	1,267	0	89.5	36.8	159	1,301	13.8	50	
2-Methylnaphthalene	1,280	63.3	1,267	0	101	51.7	138	1,270	0.519	50	
1-Methylnaphthalene	1,580	63.3	1,267	0	125	51.8	131	1,518	4.17	50	
Hexachlorocyclopentadiene	ND	127	1,267	0	0	10	133	0		50	S
2,4,6-Trichlorophenol	1,010	127	1,267	0	79.7	34.6	129	1,083	6.99	50	
2,4,5-Trichlorophenol	945	127	1,267	0	74.6	54.7	127	1,000	5.74	50	
2-Chloronaphthalene	1,030	95.0	1,267	0	81.5	42.1	124	1,144	10.3	50	
2-Nitroaniline	1,580	127	1,267	0	125	39.3	145	1,711	7.99	50	
Acenaphthene	1,050	63.3	1,267	0	82.8	49.6	129	1,150	9.16	50	
Dimethylphthalate	1,200	127	1,267	42.23	91.3	32.9	137	1,310	8.80	50	
2,6-Dinitrotoluene	1,220	127	1,267	0	96.0	30.3	136	1,401	14.1	50	
Acenaphthylene	1,060	63.3	1,267	0	83.4	39.9	129	1,170	10.2	50	
2,4-Dinitrophenol	546	253	2,534	0	21.5	10	149	717.9	27.2	50	
Dibenzofuran	1,030	95.0	1,267	0	81.3	41.2	128	1,100	6.64	50	
2,4-Dinitrotoluene	1,230	127	1,267	0	96.8	30.9	139	1,352	9.72	50	
4-Nitrophenol	1,180	633	1,267	0	92.9	15.6	160	1,184	0.566	50	
Fluorene	1,030	63.3	1,267	0	81.1	37.7	133	1,123	8.87	50	

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36778		
Client ID:	BATCH	Batch ID:	17333	Analysis Date: 6/12/2017					SeqNo: 705811		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl phenyl ether	1,030	95.0	1,267	0	81.1	70.9	128	1,157	11.9	50	
Diethylphthalate	1,630	127	1,267	865.6	60.0	36.7	130	1,807	10.6	50	
4,6-Dinitro-2-methylphenol	296	253	1,267	0	23.4	21.9	143	480.9	47.5	50	
4-Bromophenyl phenyl ether	1,020	95.0	1,267	0	80.8	69.6	136	1,117	8.74	50	
Hexachlorobenzene	1,080	95.0	1,267	0	85.0	34.3	131	1,114	3.36	50	
Pentachlorophenol	1,390	127	1,267	0	110	28.2	156	1,609	14.7	50	
Phenanthrene	1,090	63.3	1,267	116.9	76.7	32.2	139	1,152	5.74	50	
Anthracene	1,110	63.3	1,267	0	88.0	43.9	128	1,131	1.49	50	
Carbazole	1,100	95.0	1,267	0	86.6	64.1	152	1,150	4.69	50	
Di-n-butylphthalate	1,440	127	1,267	0	113	35.1	142	1,512	5.20	50	
Fluoranthene	1,210	63.3	1,267	388.6	65.1	33.8	141	1,305	7.35	50	
Pyrene	1,250	63.3	1,267	468.4	61.7	31.4	151	1,321	5.50	50	
Butyl Benzylphthalate	1,600	127	1,267	0	126	30.4	138	1,780	10.7	50	
bis(2-Ethylhexyl)adipate	1,770	127	1,267	0	140	32	136	1,930	8.38	50	S
Benz (a) anthracene	996	63.3	1,267	167.8	65.4	36	138	1,120	11.7	50	
Chrysene	1,220	63.3	1,267	322.5	70.8	41.6	125	1,259	3.13	50	
bis (2-Ethylhexyl) phthalate	1,980	127	1,267	0	157	40.8	170	2,264	13.2	50	
Di-n-octyl phthalate	1,790	127	1,267	0	142	34.6	142	1,957	8.65	50	
Benzo (b) fluoranthene	880	63.3	1,267	325.3	43.7	52.1	136	1,089	21.3	50	S
Benzo (k) fluoranthene	742	63.3	1,267	92.15	51.3	45	140	747.3	0.704	50	
Benzo (a) pyrene	651	63.3	1,267	0	51.4	50.5	137	767.4	16.5	50	
Indeno (1,2,3-cd) pyrene	695	63.3	1,267	143.6	43.6	38.1	155	764.3	9.44	50	
Dibenz (a,h) anthracene	610	63.3	1,267	0	48.2	40.7	152	671.5	9.54	50	I
Benzo (g,h,l) perylene	564	63.3	1,267	119.9	35.1	34	157	619.6	9.33	50	I
Surr: 2,4,6-Tribromophenol	1,620		1,267		128	14.8	165		0		
Surr: 2-Fluorobiphenyl	615		633.4		97.0	15	123		0		
Surr: Nitrobenzene-d5	746		633.4		118	10	133		0		
Surr: Phenol-d6	1,270		1,267		100	11.6	133		0		
Surr: p-Terphenyl	645		633.4		102	26.7	159		0		

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Semi-Volatile Organic Compounds by EPA Method 8270

Sample ID	1706062-002AMSD	SampType:	MSD	Units:	µg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36778		
Client ID:	BATCH	Batch ID:	17333			Analysis Date:	6/12/2017	SeqNo:	705811		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

S - Outlying spike recovery(ies) observed for Hexachlorocyclopentadiene and bis(2-Ethylhexyl)adipate. A duplicate analysis was performed with similar results indicating a possible matrix effect.

S - Outlying spike recovery observed for Benzo(b)fluoranthene. A duplicate analysis was performed and recovered within range.

I - Internal standards were outside of established acceptance criteria. Re-analysis and/or matrix spike samples yielded the same result indicating a possible matrix effect.



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Total Metals by EPA Method 6020

Sample ID	MB-17342	SampType:	MBLK	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36787		
Client ID:	MBLKS	Batch ID:	17342			Analysis Date:	6/13/2017	SeqNo:	706260		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.0787									
Barium	ND	0.394									
Cadmium	ND	0.157									
Chromium	ND	0.0787									
Lead	ND	0.157									
Selenium	ND	0.394									
Silver	ND	0.0787									

Sample ID	LCS-17342	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/12/2017	RunNo:	36787		
Client ID:	LCSS	Batch ID:	17342			Analysis Date:	6/13/2017	SeqNo:	706261		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38.2	0.0775	38.76	0	98.6	80	120				
Barium	38.8	0.388	38.76	0	100	80	120				
Cadmium	1.92	0.155	1.938	0	98.8	80	120				
Chromium	36.1	0.0775	38.76	0	93.2	80	120				
Lead	20.0	0.155	19.38	0	103	80	120				
Selenium	3.71	0.388	3.876	0	95.8	80	120				
Silver	8.44	0.0775	9.690	0	87.1	80	120				

Sample ID	1706076-003ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36787		
Client ID:	BATCH	Batch ID:	17342			Analysis Date:	6/13/2017	SeqNo:	706263		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.77	0.0905						4.900	2.66	20	
Barium	80.9	0.453						81.40	0.564	20	
Cadmium	ND	0.181						0		20	
Chromium	44.7	0.0905						40.63	9.58	20	
Lead	5.72	0.181						6.900	18.6	20	
Selenium	1.31	0.453						1.058	21.4	20	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Total Metals by EPA Method 6020

Sample ID	1706076-003ADUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36787		
Client ID:	BATCH	Batch ID:	17342			Analysis Date:	6/13/2017	SeqNo:	706263		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	0.0905						0		20	

Sample ID	1706076-003AMS	SampType: MS		Units: mg/Kg-dry		Prep Date: 6/12/2017		RunNo: 36787			
Client ID:	BATCH	Batch ID: 17342				Analysis Date: 6/13/2017		SeqNo: 706267			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	52.8	0.0905	45.26	4.900	106	75	125				
Barium	129	0.453	45.26	81.40	105	75	125				
Cadmium	2.59	0.181	2.263	0.1027	110	75	125				
Chromium	90.0	0.0905	45.26	40.63	109	75	125				
Lead	26.4	0.181	22.63	6.900	86.2	75	125				
Selenium	5.87	0.453	4.526	1.058	106	75	125				
Silver	9.22	0.0905	11.31	0.05848	81.0	75	125				

Sample ID	1706076-003AMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36787		
Client ID:	BATCH	Batch ID:	17342	Analysis Date: 6/13/2017					SeqNo: 706268		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.4	0.0898	44.91	4.900	96.8	75	125	52.85	8.85	20	
Barium	117	0.449	44.91	81.40	78.3	75	125	129.1	10.2	20	
Cadmium	2.37	0.180	2.245	0.1027	101	75	125	2.594	8.94	20	
Chromium	85.2	0.0898	44.91	40.63	99.3	75	125	90.02	5.48	20	
Lead	26.1	0.180	22.45	6.900	85.3	75	125	26.40	1.28	20	
Selenium	5.97	0.449	4.491	1.058	109	75	125	5.870	1.74	20	
Silver	7.95	0.0898	11.23	0.05848	70.3	75	125	9.221	14.8	20	S

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-17345	SampType:	MBLK		Units:	mg/Kg		Prep Date:	6/12/2017		RunNo:	36782	
Client ID:	MBLKS	Batch ID:	17345					Analysis Date:	6/12/2017		SeqNo:	706013	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Dichlorodifluoromethane (CFC-12)	ND	0.0600											Q
Chloromethane	ND	0.0600											
Vinyl chloride	ND	0.00200											
Bromomethane	ND	0.0900											
Trichlorofluoromethane (CFC-11)	ND	0.0500											
Chloroethane	ND	0.0600											
1,1-Dichloroethene	ND	0.0500											
Methylene chloride	ND	0.0200											
trans-1,2-Dichloroethene	ND	0.0200											
Methyl tert-butyl ether (MTBE)	ND	0.0500											
1,1-Dichloroethane	ND	0.0200											
2,2-Dichloropropane	ND	0.0500											Q
cis-1,2-Dichloroethene	ND	0.0200											
Chloroform	ND	0.0200											
1,1,1-Trichloroethane (TCA)	ND	0.0200											
1,1-Dichloropropene	ND	0.0200											
Carbon tetrachloride	ND	0.0200											
1,2-Dichloroethane (EDC)	ND	0.0300											
Benzene	ND	0.0200											
Trichloroethene (TCE)	ND	0.0200											
1,2-Dichloropropane	ND	0.0200											
Bromodichloromethane	ND	0.0200											
Dibromomethane	ND	0.0400											
cis-1,3-Dichloropropene	ND	0.0200											
Toluene	ND	0.0200											
trans-1,3-Dichloropropylene	ND	0.0300											
1,1,2-Trichloroethane	ND	0.0300											
1,3-Dichloropropane	ND	0.0500											
Tetrachloroethene (PCE)	ND	0.0200											
Dibromochloromethane	ND	0.0300											
1,2-Dibromoethane (EDB)	ND	0.00500											



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-17345	SampType:	MBLK		Units:	mg/Kg		Prep Date:	6/12/2017		RunNo:	36782	
Client ID:	MBLKS	Batch ID:	17345					Analysis Date:	6/12/2017		SeqNo:	706013	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chlorobenzene	ND	0.0200											
1,1,1,2-Tetrachloroethane	ND	0.0300											
Ethylbenzene	ND	0.0300											
m,p-Xylene	ND	0.0200											
o-Xylene	ND	0.0200											
Styrene	ND	0.0200											
Isopropylbenzene	ND	0.0800											
Bromoform	ND	0.0200											
1,1,2,2-Tetrachloroethane	ND	0.0200											
n-Propylbenzene	ND	0.0200											
Bromobenzene	ND	0.0300											
1,3,5-Trimethylbenzene	ND	0.0200											
2-Chlorotoluene	ND	0.0200											
4-Chlorotoluene	ND	0.0200											
tert-Butylbenzene	ND	0.0200											
1,2,3-Trichloropropane	ND	0.0200											
1,2,4-Trichlorobenzene	ND	0.0500											
sec-Butylbenzene	ND	0.0200											
4-Isopropyltoluene	ND	0.0200											
1,3-Dichlorobenzene	ND	0.0200											
1,4-Dichlorobenzene	ND	0.0200											
n-Butylbenzene	ND	0.0200											
1,2-Dichlorobenzene	ND	0.0200											
1,2-Dibromo-3-chloropropane	ND	0.500											
1,2,4-Trimethylbenzene	ND	0.0200											
Hexachlorobutadiene	ND	0.100											
Naphthalene	ND	0.0300											
1,2,3-Trichlorobenzene	ND	0.0200											
Surr: Dibromofluoromethane	1.25		1.250		99.9	56.5	129						
Surr: Toluene-d8	1.45		1.250		116	64.5	151						
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.8	63.1	141						



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-17345	SampType:	MBLK			Units:	mg/Kg		Prep Date:	6/12/2017		RunNo:	36782	
Client ID:	MBLKS	Batch ID:	17345						Analysis Date:	6/12/2017		SeqNo:	706013	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	LCS-17345	SampType: LCS		Units: mg/Kg		Prep Date: 6/12/2017		RunNo: 36782			
Client ID:	LCSS	Batch ID: 17345				Analysis Date: 6/12/2017		SeqNo: 706012			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.06	0.0600	1.000	0	106	14.3	167				
Chloromethane	0.977	0.0600	1.000	0	97.7	46	144				
Vinyl chloride	1.04	0.00200	1.000	0	104	43.4	151				
Bromomethane	1.11	0.0900	1.000	0	111	40.9	157				
Trichlorofluoromethane (CFC-11)	1.17	0.0500	1.000	0	117	36.9	156				
Chloroethane	1.14	0.0600	1.000	0	114	33.4	155				
1,1-Dichloroethene	1.16	0.0500	1.000	0	116	49.7	142				
Methylene chloride	1.16	0.0200	1.000	0	116	46.3	140				
trans-1,2-Dichloroethene	1.17	0.0200	1.000	0	117	68	130				
Methyl tert-butyl ether (MTBE)	1.13	0.0500	1.000	0	113	66.3	145				
1,1-Dichloroethane	1.17	0.0200	1.000	0	117	61.9	137				
2,2-Dichloropropane	1.29	0.0500	1.000	0	129	35.5	186				
cis-1,2-Dichloroethene	1.17	0.0200	1.000	0	117	71.3	135				
Chloroform	1.18	0.0200	1.000	0	118	69	145				
1,1,1-Trichloroethane (TCA)	1.16	0.0200	1.000	0	116	69	132				
1,1-Dichloropropene	1.01	0.0200	1.000	0	101	72.7	131				
Carbon tetrachloride	0.966	0.0200	1.000	0	96.6	63.4	137				
1,2-Dichloroethane (EDC)	0.973	0.0300	1.000	0	97.3	50.9	162				
Benzene	1.00	0.0200	1.000	0	100	64.3	133				
Trichloroethene (TCE)	1.00	0.0200	1.000	0	100	65.5	137				
1,2-Dichloropropane	1.06	0.0200	1.000	0	106	63.2	142				
Bromodichloromethane	1.21	0.0200	1.000	0	121	53.4	131				
Dibromomethane	1.07	0.0400	1.000	0	107	60.1	146				
cis-1,3-Dichloropropene	1.22	0.0200	1.000	0	122	59.1	143				



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
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QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-17345	SampType: LCS		Units: mg/Kg		Prep Date: 6/12/2017			RunNo: 36782		
Client ID:	LCSS	Batch ID: 17345					Analysis Date: 6/12/2017			SeqNo: 706012	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.13	0.0200	1.000	0	113	67.3	138				
trans-1,3-Dichloropropylene	1.22	0.0300	1.000	0	122	49.2	149				
1,1,2-Trichloroethane	1.14	0.0300	1.000	0	114	56.9	147				
1,3-Dichloropropane	1.15	0.0500	1.000	0	115	56.1	153				
Tetrachloroethene (PCE)	1.18	0.0200	1.000	0	118	52.7	150				
Dibromochloromethane	1.23	0.0300	1.000	0	123	70.6	144				
1,2-Dibromoethane (EDB)	1.12	0.00500	1.000	0	112	50.5	154				
Chlorobenzene	0.992	0.0200	1.000	0	99.2	76.1	123				
1,1,1,2-Tetrachloroethane	0.999	0.0300	1.000	0	99.9	65.9	141				
Ethylbenzene	1.00	0.0300	1.000	0	100	74	129				
m,p-Xylene	2.01	0.0200	2.000	0	101	70	124				
o-Xylene	1.01	0.0200	1.000	0	101	68.1	139				
Styrene	0.990	0.0200	1.000	0	99.0	73.3	146				
Isopropylbenzene	0.985	0.0800	1.000	0	98.5	70	130				
Bromoform	1.01	0.0200	1.000	0	101	67	154				
1,1,2,2-Tetrachloroethane	0.995	0.0200	1.000	0	99.5	44.8	165				
n-Propylbenzene	1.02	0.0200	1.000	0	102	74.8	125				
Bromobenzene	1.00	0.0300	1.000	0	100	49.2	144				
1,3,5-Trimethylbenzene	0.989	0.0200	1.000	0	98.9	74.6	123				
2-Chlorotoluene	1.01	0.0200	1.000	0	101	76.7	129				
4-Chlorotoluene	1.00	0.0200	1.000	0	100	77.5	125				
tert-Butylbenzene	0.997	0.0200	1.000	0	99.7	66.2	130				
1,2,3-Trichloropropane	1.01	0.0200	1.000	0	101	67.9	136				
1,2,4-Trichlorobenzene	1.01	0.0500	1.000	0	101	62.6	143				
sec-Butylbenzene	1.07	0.0200	1.000	0	107	75.6	133				
4-Isopropyltoluene	1.06	0.0200	1.000	0	106	76.8	131				
1,3-Dichlorobenzene	1.03	0.0200	1.000	0	103	72.8	128				
1,4-Dichlorobenzene	1.04	0.0200	1.000	0	104	72.6	126				
n-Butylbenzene	1.05	0.0200	1.000	0	105	65.3	136				
1,2-Dichlorobenzene	1.05	0.0200	1.000	0	105	72.8	126				
1,2-Dibromo-3-chloropropane	1.02	0.500	1.000	0	102	40.2	155				



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID	LCS-17345		SampType: LCS		Units: mg/Kg		Prep Date: 6/12/2017		RunNo: 36782		
Client ID:	LCSS		Batch ID: 17345				Analysis Date: 6/12/2017		SeqNo: 706012		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.991	0.0200	1.000	0	99.1	77.5	129				
Hexachlorobutadiene	1.06	0.100	1.000	0	106	42	151				
Naphthalene	1.06	0.0300	1.000	0	106	58.4	160				
1,2,3-Trichlorobenzene	1.00	0.0200	1.000	0	100	54.8	143				
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129				
Surr: Toluene-d8	1.52		1.250		122	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.31		1.250		104	63.1	141				

Sample ID	1706132-004BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 6/12/2017		RunNo: 36782		
Client ID:	PR-TP-5-8		Batch ID: 17345				Analysis Date: 6/13/2017		SeqNo: 706002		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0686						0		30	Q
Chloromethane	ND	0.0686						0		30	
Vinyl chloride	ND	0.00229						0		30	
Bromomethane	ND	0.103						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0572						0		30	
Chloroethane	ND	0.0686						0		30	
1,1-Dichloroethene	ND	0.0572						0		30	
Methylene chloride	ND	0.0229						0		30	
trans-1,2-Dichloroethene	ND	0.0229						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0572						0		30	
1,1-Dichloroethane	ND	0.0229						0		30	
2,2-Dichloropropane	ND	0.0572						0		30	
cis-1,2-Dichloroethene	ND	0.0229						0		30	
Chloroform	ND	0.0229						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0229						0		30	
1,1-Dichloropropene	ND	0.0229						0		30	
Carbon tetrachloride	ND	0.0229						0		30	
1,2-Dichloroethane (EDC)	ND	0.0343						0		30	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706132-004BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	PR-TP-5-8	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	706002		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0229						0		30	
Trichloroethene (TCE)	ND	0.0229						0		30	
1,2-Dichloropropane	ND	0.0229						0		30	
Bromodichloromethane	ND	0.0229						0		30	
Dibromomethane	ND	0.0457						0		30	
cis-1,3-Dichloropropene	ND	0.0229						0		30	
Toluene	ND	0.0229						0		30	
trans-1,3-Dichloropropylene	ND	0.0343						0		30	
1,1,2-Trichloroethane	ND	0.0343						0		30	
1,3-Dichloropropane	ND	0.0572						0		30	
Tetrachloroethene (PCE)	ND	0.0229						0		30	
Dibromochloromethane	ND	0.0343						0		30	
1,2-Dibromoethane (EDB)	ND	0.00572						0		30	
Chlorobenzene	ND	0.0229						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0343						0		30	
Ethylbenzene	ND	0.0343						0		30	
m,p-Xylene	ND	0.0229						0		30	
o-Xylene	ND	0.0229						0		30	
Styrene	ND	0.0229						0		30	
Isopropylbenzene	ND	0.0915						0		30	
Bromoform	ND	0.0229						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0229						0		30	
n-Propylbenzene	ND	0.0229						0		30	
Bromobenzene	ND	0.0343						0		30	
1,3,5-Trimethylbenzene	ND	0.0229						0		30	
2-Chlorotoluene	ND	0.0229						0		30	
4-Chlorotoluene	ND	0.0229						0		30	
tert-Butylbenzene	ND	0.0229						0		30	
1,2,3-Trichloropropane	ND	0.0229						0		30	
1,2,4-Trichlorobenzene	ND	0.0572						0		30	
sec-Butylbenzene	ND	0.0229						0		30	

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706132-004BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	PR-TP-5-8	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	706002		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	0.0229						0		30	
1,3-Dichlorobenzene	ND	0.0229						0		30	
1,4-Dichlorobenzene	ND	0.0229						0		30	
n-Butylbenzene	ND	0.0229						0		30	
1,2-Dichlorobenzene	ND	0.0229						0		30	
1,2-Dibromo-3-chloropropane	ND	0.572						0		30	
1,2,4-Trimethylbenzene	ND	0.0229						0		30	
Hexachlorobutadiene	ND	0.114						0		30	
Naphthalene	ND	0.0343						0		30	
1,2,3-Trichlorobenzene	ND	0.0229						0		30	
Surr: Dibromofluoromethane	1.47		1.430		103	56.5	129		0		
Surr: Toluene-d8	1.64		1.430		115	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.35		1.430		94.8	63.1	141		0		

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID	1706132-010BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	PR-TP-8-5	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	706006		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.12	0.0727	1.211	0	92.3	43.5	121				
Chloromethane	1.18	0.0727	1.211	0	97.5	45	130				
Vinyl chloride	1.09	0.00242	1.211	0	89.8	51.2	146				
Bromomethane	1.10	0.109	1.211	0	90.9	21.3	120				
Trichlorofluoromethane (CFC-11)	1.54	0.0606	1.211	0	128	35	131				
Chloroethane	1.30	0.0727	1.211	0	107	31.9	123				
1,1-Dichloroethene	1.31	0.0606	1.211	0	108	61.9	141				
Methylene chloride	1.35	0.0242	1.211	0.01811	110	54.7	142				
trans-1,2-Dichloroethene	1.27	0.0242	1.211	0	105	52	136				
Methyl tert-butyl ether (MTBE)	1.41	0.0606	1.211	0	117	54.4	132				
1,1-Dichloroethane	1.10	0.0242	1.211	0	91.1	51.8	141				



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706132-010BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	PR-TP-8-5	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	706006		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,2-Dichloropropane	0.891	0.0606	1.211	0	73.5	36	123				
cis-1,2-Dichloroethene	1.11	0.0242	1.211	0	92.0	58.6	136				
Chloroform	1.11	0.0242	1.211	0	91.5	53.2	129				
1,1,1-Trichloroethane (TCA)	1.07	0.0242	1.211	0	88.0	58.3	145				
1,1-Dichloropropene	1.14	0.0242	1.211	0	94.3	55.1	138				
Carbon tetrachloride	1.03	0.0242	1.211	0	85.2	53.3	144				
1,2-Dichloroethane (EDC)	1.11	0.0363	1.211	0	91.4	51.3	139				
Benzene	1.14	0.0242	1.211	0	94.1	63.5	133				
Trichloroethene (TCE)	1.11	0.0242	1.211	0	91.7	68.6	132				
1,2-Dichloropropane	1.19	0.0242	1.211	0	98.7	59	136				
Bromodichloromethane	1.13	0.0242	1.211	0	93.6	50.7	141				
Dibromomethane	1.18	0.0484	1.211	0	97.6	50.6	137				
cis-1,3-Dichloropropene	1.33	0.0242	1.211	0	110	50.4	138				
Toluene	1.31	0.0242	1.211	0	108	63.4	132				
trans-1,3-Dichloropropylene	1.34	0.0363	1.211	0	111	44.1	147				
1,1,2-Trichloroethane	1.28	0.0363	1.211	0	105	51.6	137				
1,3-Dichloropropane	1.35	0.0606	1.211	0	111	53.1	134				
Tetrachloroethene (PCE)	1.30	0.0242	1.211	0	107	35.6	158				
Dibromochloromethane	1.19	0.0363	1.211	0	98.1	55.3	140				
1,2-Dibromoethane (EDB)	1.31	0.00606	1.211	0	108	50.4	136				
Chlorobenzene	1.12	0.0242	1.211	0	92.1	60	133				
1,1,1,2-Tetrachloroethane	0.992	0.0363	1.211	0	81.9	53.1	142				
Ethylbenzene	1.13	0.0363	1.211	0	93.6	54.5	134				
m,p-Xylene	2.27	0.0242	2.422	0	93.8	53.1	132				
o-Xylene	1.17	0.0242	1.211	0	96.8	53.3	139				
Styrene	1.13	0.0242	1.211	0	93.3	51.1	132				
Isopropylbenzene	1.14	0.0969	1.211	0	93.7	58.9	138				
Bromoform	0.858	0.0242	1.211	0	70.8	57.9	130				
1,1,2,2-Tetrachloroethane	1.08	0.0242	1.211	0	88.8	51.9	131				
n-Propylbenzene	1.16	0.0242	1.211	0	96.1	53.6	140				
Bromobenzene	1.13	0.0363	1.211	0	93.6	54.2	140				



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706132-010BMS	SampType: MS	Units: mg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36782			
Client ID:	PR-TP-8-5	Batch ID:	17345				Analysis Date: 6/13/2017			SeqNo: 706006		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,3,5-Trimethylbenzene	1.13	0.0242	1.211	0	93.2	51.8	136					
2-Chlorotoluene	1.14	0.0242	1.211	0	93.9	51.6	136					
4-Chlorotoluene	1.14	0.0242	1.211	0	94.1	50.1	139					
tert-Butylbenzene	1.15	0.0242	1.211	0	94.6	50.5	135					
1,2,3-Trichloropropane	1.06	0.0242	1.211	0	87.5	50.5	131					
1,2,4-Trichlorobenzene	1.27	0.0606	1.211	0	105	50.8	130					
sec-Butylbenzene	1.26	0.0242	1.211	0	104	52.6	141					
4-Isopropyltoluene	1.25	0.0242	1.211	0	103	52.9	134					
1,3-Dichlorobenzene	1.17	0.0242	1.211	0	96.7	52.6	131					
1,4-Dichlorobenzene	1.18	0.0242	1.211	0	97.5	52.9	129					
n-Butylbenzene	1.26	0.0242	1.211	0	104	52.6	130					
1,2-Dichlorobenzene	1.18	0.0242	1.211	0	97.2	55.8	129					
1,2-Dibromo-3-chloropropane	0.951	0.606	1.211	0	78.5	40.5	131					
1,2,4-Trimethylbenzene	1.17	0.0242	1.211	0	96.4	50.6	137					
Hexachlorobutadiene	1.36	0.121	1.211	0	113	40.6	158					
Naphthalene	1.41	0.0363	1.211	0	116	52.3	124					
1,2,3-Trichlorobenzene	1.20	0.0242	1.211	0	98.9	54.4	124					
Surr: Dibromofluoromethane	1.51		1.514		99.6	56.5	129					
Surr: Toluene-d8	1.80		1.514		119	64.5	151					
Surr: 1-Bromo-4-fluorobenzene	1.59		1.514		105	63.1	141					

Sample ID	1706132-010BMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 6/12/2017		RunNo: 36782		
Client ID:	PR-TP-8-5		Batch ID: 17345				Analysis Date: 6/13/2017		SeqNo: 706007		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.19	0.0727	1.211	0	98.1	43.5	121	1.118	6.13	30	
Chloromethane	1.31	0.0727	1.211	0	108	45	130	1.181	10.1	30	
Vinyl chloride	1.20	0.00242	1.211	0	99.1	51.2	146	1.088	9.82	30	
Bromomethane	1.26	0.109	1.211	0	104	21.3	120	1.101	13.3	30	
Trichlorofluoromethane (CFC-11)	1.68	0.0606	1.211	0	138	35	131	1.545	8.13	30	S

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706132-010BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	PR-TP-8-5	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	706007		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	1.47	0.0727	1.211	0	121	31.9	123	1.297	12.4	30	
1,1-Dichloroethene	1.45	0.0606	1.211	0	120	61.9	141	1.308	10.3	30	
Methylene chloride	1.43	0.0242	1.211	0.01811	117	54.7	142	1.350	5.82	30	
trans-1,2-Dichloroethene	1.39	0.0242	1.211	0	115	52	136	1.266	9.30	30	
Methyl tert-butyl ether (MTBE)	1.52	0.0606	1.211	0	126	54.4	132	1.412	7.42	30	
1,1-Dichloroethane	1.40	0.0242	1.211	0	116	51.8	141	1.104	23.7	30	
2,2-Dichloropropane	1.21	0.0606	1.211	0	100	36	123	0.8906	30.5	30	R
cis-1,2-Dichloroethene	1.38	0.0242	1.211	0	114	58.6	136	1.114	21.3	30	
Chloroform	1.14	0.0242	1.211	0	94.0	53.2	129	1.108	2.72	30	
1,1,1-Trichloroethane (TCA)	1.11	0.0242	1.211	0	91.9	58.3	145	1.065	4.38	30	
1,1-Dichloropropene	1.20	0.0242	1.211	0	99.5	55.1	138	1.142	5.32	30	
Carbon tetrachloride	1.02	0.0242	1.211	0	84.4	53.3	144	1.031	0.867	30	
1,2-Dichloroethane (EDC)	1.12	0.0363	1.211	0	92.5	51.3	139	1.107	1.11	30	
Benzene	1.18	0.0242	1.211	0	97.8	63.5	133	1.140	3.89	30	
Trichloroethene (TCE)	1.17	0.0242	1.211	0	96.4	68.6	132	1.110	4.98	30	
1,2-Dichloropropane	1.25	0.0242	1.211	0	103	59	136	1.195	4.27	30	
Bromodichloromethane	1.18	0.0242	1.211	0	97.6	50.7	141	1.134	4.19	30	
Dibromomethane	1.20	0.0484	1.211	0	99.3	50.6	137	1.181	1.82	30	
cis-1,3-Dichloropropene	1.38	0.0242	1.211	0	114	50.4	138	1.326	3.78	30	
Toluene	1.34	0.0242	1.211	0	111	63.4	132	1.310	2.45	30	
trans-1,3-Dichloropropylene	1.37	0.0363	1.211	0	114	44.1	147	1.338	2.67	30	
1,1,2-Trichloroethane	1.31	0.0363	1.211	0	108	51.6	137	1.275	2.42	30	
1,3-Dichloropropane	1.35	0.0606	1.211	0	112	53.1	134	1.347	0.251	30	
Tetrachloroethene (PCE)	1.38	0.0242	1.211	0	114	35.6	158	1.300	5.69	30	
Dibromochloromethane	1.22	0.0363	1.211	0	100	55.3	140	1.188	2.38	30	
1,2-Dibromoethane (EDB)	1.30	0.00606	1.211	0	108	50.4	136	1.306	0.112	30	
Chlorobenzene	1.16	0.0242	1.211	0	96.0	60	133	1.115	4.20	30	
1,1,1,2-Tetrachloroethane	1.07	0.0363	1.211	0	88.1	53.1	142	0.9922	7.23	30	
Ethylbenzene	1.19	0.0363	1.211	0	98.1	54.5	134	1.134	4.63	30	
m,p-Xylene	2.37	0.0242	2.422	0	97.9	53.1	132	2.272	4.27	30	
o-Xylene	1.20	0.0242	1.211	0	99.1	53.3	139	1.172	2.37	30	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260C**

Sample ID	1706132-010BMSD	SampType: MSD	Units: mg/Kg-dry			Prep Date: 6/12/2017			RunNo: 36782		
Client ID:	PR-TP-8-5	Batch ID:	17345				Analysis Date: 6/13/2017			SeqNo: 706007	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	1.18	0.0242	1.211	0	97.2	51.1	132	1.130	4.10	30	
Isopropylbenzene	1.16	0.0969	1.211	0	96.1	58.9	138	1.135	2.53	30	
Bromoform	0.875	0.0242	1.211	0	72.3	57.9	130	0.8579	1.99	30	
1,1,2,2-Tetrachloroethane	1.11	0.0242	1.211	0	91.9	51.9	131	1.075	3.43	30	
n-Propylbenzene	1.20	0.0242	1.211	0	99.1	53.6	140	1.164	3.07	30	
Bromobenzene	1.18	0.0363	1.211	0	97.1	54.2	140	1.133	3.73	30	
1,3,5-Trimethylbenzene	1.15	0.0242	1.211	0	95.3	51.8	136	1.129	2.18	30	
2-Chlorotoluene	1.18	0.0242	1.211	0	97.3	51.6	136	1.138	3.46	30	
4-Chlorotoluene	1.18	0.0242	1.211	0	97.8	50.1	139	1.139	3.88	30	
tert-Butylbenzene	1.19	0.0242	1.211	0	98.5	50.5	135	1.146	3.99	30	
1,2,3-Trichloropropane	1.14	0.0242	1.211	0	94.5	50.5	131	1.059	7.76	30	
1,2,4-Trichlorobenzene	1.31	0.0606	1.211	0	108	50.8	130	1.274	3.00	30	
sec-Butylbenzene	1.27	0.0242	1.211	0	105	52.6	141	1.257	1.42	30	
4-Isopropyltoluene	1.28	0.0242	1.211	0	105	52.9	134	1.251	2.12	30	
1,3-Dichlorobenzene	1.23	0.0242	1.211	0	101	52.6	131	1.171	4.66	30	
1,4-Dichlorobenzene	1.22	0.0242	1.211	0	101	52.9	129	1.180	3.67	30	
n-Butylbenzene	1.30	0.0242	1.211	0	107	52.6	130	1.263	3.00	30	
1,2-Dichlorobenzene	1.24	0.0242	1.211	0	102	55.8	129	1.177	5.16	30	
1,2-Dibromo-3-chloropropane	0.991	0.606	1.211	0	81.8	40.5	131	0.9506	4.16	30	
1,2,4-Trimethylbenzene	1.19	0.0242	1.211	0	98.0	50.6	137	1.167	1.64	30	
Hexachlorobutadiene	1.46	0.121	1.211	0	121	40.6	158	1.365	7.02	30	
Naphthalene	1.33	0.0363	1.211	0	110	52.3	124	1.410	5.90	30	
1,2,3-Trichlorobenzene	1.25	0.0242	1.211	0	103	54.4	124	1.198	4.12	30	
Surr: Dibromofluoromethane	1.49		1.514		98.7	56.5	129		0		
Surr: Toluene-d8	1.80		1.514		119	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.58		1.514		104	63.1	141		0		

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

R - High RPD observed, spike recoveries are within range.



Date: 6/14/2017

Work Order: 1706132
 CLIENT: O'Neill Service Group
 Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706112-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	BATCH	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	705998		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0341						0		30	Q
Chloromethane	ND	0.0341						0		30	
Vinyl chloride	ND	0.00114						0		30	
Bromomethane	ND	0.0511						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0284						0		30	
Chloroethane	ND	0.0341						0		30	
1,1-Dichloroethene	ND	0.0284						0		30	
Methylene chloride	ND	0.0114						0		30	
trans-1,2-Dichloroethene	ND	0.0114						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0284						0		30	
1,1-Dichloroethane	ND	0.0114						0		30	
2,2-Dichloropropane	ND	0.0284						0		30	Q
cis-1,2-Dichloroethene	ND	0.0114						0		30	
Chloroform	ND	0.0114						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0114						0		30	
1,1-Dichloropropene	ND	0.0114						0		30	
Carbon tetrachloride	ND	0.0114						0		30	
1,2-Dichloroethane (EDC)	ND	0.0170						0		30	
Benzene	ND	0.0114						0		30	
Trichloroethene (TCE)	ND	0.0114						0		30	
1,2-Dichloropropane	ND	0.0114						0		30	
Bromodichloromethane	ND	0.0114						0		30	
Dibromomethane	ND	0.0227						0		30	
cis-1,3-Dichloropropene	ND	0.0114						0		30	
Toluene	ND	0.0114						0		30	
trans-1,3-Dichloropropylene	ND	0.0170						0		30	
1,1,2-Trichloroethane	ND	0.0170						0		30	
1,3-Dichloropropane	ND	0.0284						0		30	
Tetrachloroethene (PCE)	ND	0.0114						0		30	
Dibromochloromethane	ND	0.0170						0		30	
1,2-Dibromoethane (EDB)	ND	0.00284						0		30	



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706112-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	BATCH	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	705998		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.0114						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0170						0		30	
Ethylbenzene	ND	0.0170						0		30	
m,p-Xylene	ND	0.0114						0		30	
o-Xylene	ND	0.0114						0		30	
Styrene	ND	0.0114						0		30	
Isopropylbenzene	ND	0.0455						0		30	
Bromoform	ND	0.0114						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0114						0		30	
n-Propylbenzene	ND	0.0114						0		30	
Bromobenzene	ND	0.0170						0		30	
1,3,5-Trimethylbenzene	ND	0.0114						0		30	
2-Chlorotoluene	ND	0.0114						0		30	
4-Chlorotoluene	ND	0.0114						0		30	
tert-Butylbenzene	ND	0.0114						0		30	
1,2,3-Trichloropropane	ND	0.0114						0		30	
1,2,4-Trichlorobenzene	ND	0.0284						0		30	
sec-Butylbenzene	ND	0.0114						0		30	
4-Isopropyltoluene	ND	0.0114						0		30	
1,3-Dichlorobenzene	ND	0.0114						0		30	
1,4-Dichlorobenzene	ND	0.0114						0		30	
n-Butylbenzene	ND	0.0114						0		30	
1,2-Dichlorobenzene	ND	0.0114						0		30	
1,2-Dibromo-3-chloropropane	ND	0.284						0		30	
1,2,4-Trimethylbenzene	ND	0.0114						0		30	
Hexachlorobutadiene	ND	0.0568						0		30	
Naphthalene	ND	0.0170						0		30	
1,2,3-Trichlorobenzene	ND	0.0114						0		30	
Surr: Dibromofluoromethane	0.617		0.7102		86.9	56.5	129		0		
Surr: Toluene-d8	0.658		0.7102		92.7	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	0.699		0.7102		98.5	63.1	141		0		



Date: 6/14/2017

Work Order: 1706132
CLIENT: O'Neill Service Group
Project: KLB PO 0005

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1706112-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/12/2017	RunNo:	36782		
Client ID:	BATCH	Batch ID:	17345			Analysis Date:	6/13/2017	SeqNo:	705998		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Client Name: **ONEILL**

 Work Order Number: **1706132**

 Logged by: **Clare Griggs**

 Date Received: **6/12/2017 2:44:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☒ No ☐ NA ☐
MeOH ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	7.8
Sample	5.5

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/12/17 Page: 1 of 2

Laboratory Project No (internal): 1706132

Project Name: KLB PO 0005

Special Remarks:
cc Results to
jackiem@oneillsg.com
For all project Results

Client: OSG

Project No: E320

Address:

Collected by: Jackie Mart

City, State, Zip:

Location: Eastside Park and Ride

Telephone:

Report To (PM): Brady Hanson

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: bradyh@oneillsg.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*																	Comments
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 8220 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)**	EDB (8011)					
1 PR-TP-4-3	6/12/17	8:30	SOIL																	HOLD
2 PR-TP-4-8		8:45																		
3 PR-TP-5-3		9:10		X			X	X			X									
4 PR-TP-5-8		9:25		X			X	X			X									
5 PR-TP-6-3		9:50																		HOLD
6 PR-TP-6-8		9:58																		HOLD
7 PR-TP-7-3		10:20		X			X				X									
8 PR-TP-7-8		10:30		X			X				X									
9 PR-TP-8-3		10:55																		HOLD
10 PR-TP-8-5	V	11:05	V	X			X	X			X									

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished
x
Date/Time
06/12/17 1444

Received
x
Date/Time
6/12/2017 1444

Relinquished
x
Date/Time

Received
x
Date/Time

Turn-around Time:

- ☐ Standard
☐ 3 Day
☐ 2 Day
☒ Next Day
Same Day _____
(specify)



Fremont

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/12/17 Page: 2 of: 2

Laboratory Project No (internal):

Project Name: KLB P6 0005

Special Remarks: cc Results to jackie m oneillsg.com

Client: OSG

Project No: E320

Address:

Collected by: Jackie Mart

City, State, Zip:

Location: Eastside Park and Ride

Telephone:

Report To (PM): Brady Hanson

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: bradyh@oneillsg.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 PR-TP-9-3	11:30	6/12/17	SOIL													HOLD
2 PR-TP-9-6	11:32															HOLD
3 PR-TP-10-3	12:00															HOLD
4 PR-TP-10-8	12:08															HOLD
5 PR-TP-11-3	12:30			X			X				X					
6 PR-TP-11-8	12:48			X			X				X					
7 PR-TP-12-3	13:00															HOLD
8 PR-TP-12-8	13:09															HOLD
9 PR-TP-13	13:20	6/13/17	SOIL													PR-TP-13-3 (HOLD)
10 PR-TP-13-8	13:25	6/13/17	SOIL													HOLD

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

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Relinquished [Signature] Date/Time 06/12/17 14:44

Received [Signature] Date/Time 6/12/2017 1444

Relinquished [Signature] Date/Time

Received [Signature] Date/Time

Turn-around Time:

- ☐ Standard
☐ 3 Day
☐ 2 Day
☒ Next Day
Same Day (specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/12/17 Page: 1 of 2

Laboratory Project No (internal): 1706132

Project Name: KLB PO 0005

Special Remarks:
CC Results to
jackiem@oneillsg.com
For all project results

Client: OSC

Project No: E320

Address:

Collected by: Jackie Marx

City, State, Zip:

Location: Eastside Park and Ride

Telephone:

Report To (PM): Brady Hanson

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: bradyh@oneillsg.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*													Comments
				VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	
1 PR-TP-4-3	6/12/17	8:30	Soil													HOLD
2 PR-TP-4-8		8:45														
3 PR-TP-5-3		9:10		X			X	X		X						
4 PR-TP-5-8		9:25		X			X	X		X						
5 PR-TP-6-3		9:50														HOLD
6 PR-TP-6-8		9:58														HOLD
7 PR-TP-7-3		10:20		X			X			X						
8 PR-TP-7-8		10:30		X			X			X						
9 PR-TP-8-3		10:55														HOLD
10 PR-TP-8-5	V	11:05	V	X			X	X		X						Quant HCLD ASAP 6/14/17 per S. Davis

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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Relinquished

Date/Time

Received

Date/Time

X 6/12/17 1444

X 6/12/2017 1444

Relinquished

Date/Time

Received

Date/Time

X

X

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day

(specify)



Fremont

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/12/17 Page: 2 of: 2

Laboratory Project No (internal):

Project Name: KLB PO 0005

Special Remarks: cc Results to jackiem@oneillsg.com

Client: OSG

Project No: E320

Address:

Collected by: Jackie Hart

City, State, Zip:

Location: Eastside Park and Ride

Telephone:

Report To (PM): Brady Hanson

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: bradyh@oneillsg.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GK)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC***)	EDB (8011)	Comments
1 PR-TP-9-3	11:30	6/12/17	SOIL													HOLD
2 PR-TP-9-6	11:32															HOLD
3 PR-TP-10-3	12:00															HOLD
4 PR-TP-10-8	12:08															HOLD
5 PR-TP-11-3	12:30			X			X				X					
6 PR-TP-11-8	12:48			X			X				X					
7 PR-TP-12-3	13:00															HOLD
8 PR-TP-12-8	13:09															HOLD
9 PR-TP-13	13:20	6/13/17	SOIL													PR-TP-13-3 (HOLD)
10 PR-TP-13-8	13:25	6/13/17	SOIL													HOLD

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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Relinquished

Date/Time

Received

Date/Time

x

06/12/17 14:44

x

6/12/2017 1444

Relinquished

Date/Time

Received

Date/Time

x

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day (specify)

APPENDIX C

Toxicity Equivalent Concentration Calculations

cPAH Toxic Equivalent Concentration Calculations

Sample ID:		E320 EL111 170629 EX001		E320 EL111 170629 EX002		E320-EL111-171129-S01		E320 -EL11-171205-S03	
Compound	TEF	Detected Concentration	Equivalent Concentration	Detected Concentration	Equivalent Concentration	Detected Concentration	Equivalent Concentration	Detected Concentration	Equivalent Concentration
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzo(a)anthracene	0.1	0.12	0.012	0.052	0.0052	0.20	0.02	0.39	0.039
Chrysene	0.01	0.10	0.001	0.065	0.00065	0.16	0.0016	0.33	0.0033
Benzo(b)fluoranthene	0.1	0.092	0.0092	0.045	0.0045	0.19	0.019	0.29	0.029
Benzo(k)fluoranthene	0.1	0.028	0.0028	0.014	0.0014	0.066	0.0066	0.082	0.0082
Benzo(a)pyrene	1	0.049	0.049	0.021	0.021	0.13	0.13	0.12	0.12
Indeno(1,2,3-cd)pyrene	0.1	0.021	0.0021	0	0	0.060	0.006	0.051	0.0051
Dibenzo(a,h)anthracene	0.1	0	0	0	0	0.024	0.0024	0.017	0.0017
TEC			0.0761		0.03275		0.1856		0.2063
MTCA CUL Total cPAH									
Method A Unrestricted Land Use			0.1		0.1		0.1		0.1
Method A Industrial			2		2		2		2
Method B			0.137		0.137		0.137		0.137

Notes

TEF = Toxicity Equivalency Factor

APPENDIX D
Soil Disposal Tickets

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

01

TICKET

952752

CELL

WEIGHMASTER

IN - Kim L.

OUT - JAMIE B.

DATE/TIME IN

7/24/17 9:34 am

DATE/TIME OUT

7/24/17 9:53 am

VEHICLE

134 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 83,720 NET TONS 21.98
SCALE OUT TARE WEIGHT 39,760 NET WEIGHT 43,960

INBOUND
INVOICE

QTY.

UNIT

DESCRIPTION

RATE

EXTENSION

TAX

TOTAL

0.00

YD

Tracking QTY

21.98

tn

SW-CONT SOIL

Origin:BELLEVUE/KING 100%

1019



NET AMOUNT

TENDERED

CHANGE

CHECK#

The undersigned Individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952760	CELL -
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/24/17 10:36 am		DATE/TIME OUT 7/24/17 10:52 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	91,560	NET TONS	26.03	INBOUND
SCALE OUT TARE WEIGHT	39,500	NET WEIGHT	52,060	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
26.03	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #

952766

CELL

WEIGHMASTER

IN - Kim L.

OUT - JAMIE B.

DATE/TIME IN

7/24/17 11:46 am

DATE/TIME OUT

7/24/17 12:04 pm

VEHICLE

134 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 100,680 NET TONS 30.64
SCALE OUT TARE WEIGHT 39,400 NET WEIGHT 61,280

INBOUND

INVOICE

QTY.

UNIT

DESCRIPTION

RATE

EXTENSION

TAX

TOTAL

0.00

YD

Tracking QTY

30.64

tn

SW-CONT SOIL

Origin:BELLEVUE/KING 100%



NET AMOUNT

TENDERED

CHANGE

CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #
952769

CELL

WEIGHMASTER

IN - Kim L. OUT - JAMIE B.

DATE/TIME IN

7/24/17 12:53 pm

DATE/TIME OUT

7/24/17 1:01 pm

VEHICLE

134 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 111,540 NET TONS 36.11
SCALE OUT TARE WEIGHT 39,320 NET WEIGHT 72,220

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
36.11	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100%						



The undersigned Individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952773	CELL
WEIGHMASTER IN - Michelle H. OUT - JAMIE B.		
DATE/TIME IN 7/24/17 1:59 pm		DATE/TIME OUT 7/24/17 2:12 pm
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	103,260	NET TONS	31.98	INBOUND
SCALE OUT TARE WEIGHT	39,300	NET WEIGHT	63,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.98	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



The undersigned Individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander -Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952792	CELL
WEIGHMASTER Kim L.		
DATE/TIME IN 7/25/17 8:04 am		DATE/TIME OUT 7/25/17 8:13 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	101,820	NET TONS	31.20	INBOUND
SCALE OUT TARE WEIGHT	39,420	NET WEIGHT	62,400	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.20	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100% 1019 						

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952795	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/25/17 8:17 am		DATE/TIME OUT 7/25/17 8:31 am
VEHICLE 98 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	111,180	NET TONS	35.37	INBOUND
SCALE OUT TARE WEIGHT	40,440	NET WEIGHT	70,740	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
35.37	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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SIGNATURE _____

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952799	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/25/17 9:23 am		DATE/TIME OUT 7/25/17 9:36 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	112,560	NET TONS	36.63	INBOUND
SCALE OUT TARE WEIGHT	39,300	NET WEIGHT	73,260	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
36.63	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
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SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952808	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/25/17 10:41 am		DATE/TIME OUT 7/25/17 10:51 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	109,980	NET TONS	35.20	INBOUND
SCALE OUT TARE WEIGHT	39,580	NET WEIGHT	70,400	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
35.20	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander -Seattle, WA
CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952813	CELL
WEIGHMASTER IN - Patrice G. OUT - JAMIE B.		
DATE/TIME IN 7/25/17 11:45 am	DATE/TIME OUT 7/25/17 11:52 am	
VEHICLE 134 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN	GROSS WEIGHT	104,340	NET TONS	32.51	INBOUND
SCALE OUT	TARE WEIGHT	39,320	NET WEIGHT	65,020	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.51	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander -Seattle, WA
CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952820	CELL
WEIGHMASTER IN - Patrice G. OUT - JAMIE B.		
DATE/TIME IN 7/25/17 12:43 pm		DATE/TIME OUT 7/25/17 12:52 pm
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	105,120	NET TONS	32.84	INBOUND
SCALE OUT TARE WEIGHT	39,440	NET WEIGHT	65,680	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.84	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander -Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE	01	TICKET #	952829	CELL	
WEIGHMASTER					
IN - Michelle H. OUT - Patrice G.					
DATE/TIME IN			7/25/17 2:04 pm	DATE/TIME OUT	
VEHICLE			134 KLB	CONTAINER	
REFERENCE					
BILL OF LADING					

SCALE IN GROSS WEIGHT	80,320	NET TONS	20.56	INBOUND
SCALE OUT TARE WEIGHT	39,200	NET WEIGHT	41,120	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
20.56	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER 012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952851	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/26/17 8:04 am	DATE/TIME OUT 7/26/17 8:20 am	
VEHICLE 134 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	98,360	NET TONS	29.50	INBOUND
SCALE OUT TARE WEIGHT	39,360	NET WEIGHT	59,000	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.50	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				
		1019				
						

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NET AMOUNT
TENDERED
CHANGE
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SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #
952856

CELL

WEIGHMASTER

IN - Kim L. OUT - JAMIE B.

DATE/TIME IN

7/26/17 8:51 am

DATE/TIME OUT

7/26/17 9:05 am

VEHICLE

154 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 103,740 NET TONS 31.97
SCALE OUT TARE WEIGHT 39,800 NET WEIGHT 63,940

INBOUND
INVOICE

QTY.

UNIT

DESCRIPTION

RATE

EXTENSION

TAX

TOTAL

0.00

YD

Tracking QTY

31.97

tn

SW-CONT SOIL

Origin:BELLEVUE/KING 100%



NET AMOUNT

TENDERED

CHANGE

CHECK#

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SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952862	CELL
WEIGHMASTER IN - Patrice G. OUT - Kim L.		
DATE/TIME IN 7/26/17 9:33 am		DATE/TIME OUT 7/26/17 9:57 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	100,120	NET TONS	30.30	INBOUND
SCALE OUT TARE WEIGHT	39,520	NET WEIGHT	60,600	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.30	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				
						

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER 012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952871	CELL
WEIGHMASTER IN - Patrice G. OUT - Kim L.		
DATE/TIME IN 7/26/17 10:27 am	DATE/TIME OUT 7/26/17 10:51 am	
VEHICLE 154 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	99,400	NET TONS	29.95	INBOUND
SCALE OUT TARE WEIGHT	39,500	NET WEIGHT	59,900	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.95	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER 012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952874	CELL
WEIGHMASTER IN - Patrice G. OUT - Kim L.		
DATE/TIME IN 7/26/17 10:58 am	DATE/TIME OUT 7/26/17 11:24 am	
VEHICLE 134 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	105,580	NET TONS	33.06	INBOUND
SCALE OUT TARE WEIGHT	39,460	NET WEIGHT	66,120	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.06	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952883	CELL
WEIGHMASTER IN - JAMIE B. OUT - Kim L.		
DATE/TIME IN 7/26/17 12:28 pm		DATE/TIME OUT 7/26/17 12:37 pm
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	98,960	NET TONS	29.89	INBOUND
SCALE OUT TARE WEIGHT	39,180	NET WEIGHT	59,780	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.89	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				
						

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952884	CELL
WEIGHMASTER IN - JAMIE B. OUT - Kim L.		
DATE/TIME IN 7/26/17 12:28 pm		DATE/TIME OUT 7/26/17 12:43 pm
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	99,960	NET TONS	30.16	INBOUND
SCALE OUT TARE WEIGHT	39,640	NET WEIGHT	60,320	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.16	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952895	CELL
WEIGHMASTER IN - Patrice G. OUT - Michelle H.		
DATE/TIME IN 7/26/17 1:55 pm		DATE/TIME OUT 7/26/17 2:16 pm
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	98,500	NET TONS	29.55	INBOUND
SCALE OUT TARE WEIGHT	39,400	NET WEIGHT	59,100	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.55	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				
						

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952898	CELL
WEIGHMASTER IN - Patrice G. OUT - Michelle H.		
DATE/TIME IN 7/26/17 2:05 pm	DATE/TIME OUT 7/26/17 2:32 pm	
VEHICLE 154 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	101,260	NET TONS	30.92	INBOUND
SCALE OUT TARE WEIGHT	39,420	NET WEIGHT	61,840	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.92	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952940	CELL
WEIGHMASTER IN - Michelle H. OUT - Patrice G.		
DATE/TIME IN 7/27/17 1:49 pm		DATE/TIME OUT 7/27/17 2:19 pm
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 112,520 NET TONS 36.58
SCALE OUT TARE WEIGHT 39,360 NET WEIGHT 73,160

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
36.58	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				
		1019				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL	
WEIGHMASTER	952910		
DATE/TIME IN	Kim L.	DATE/TIME OUT	
VEHICLE	7/27/17 7:50 am	CONTAINER	7/27/17 8:21 am
REFERENCE	134 KLB		
BILL OF LADING			

SCALE IN GROSS WEIGHT	99,540	NET TONS	29.85	INBOUND
SCALE OUT TARE WEIGHT	39,840	NET WEIGHT	59,700	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.85	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				
		1019				
						

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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER 012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952913	CELL
WEIGHMASTER IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN 7/27/17 8:26 am		DATE/TIME OUT 7/27/17 8:45 am
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	100,940	NET TONS	30.72	INBOUND
SCALE OUT TARE WEIGHT	39,500	NET WEIGHT	61,440	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.72	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander Seattle, WA
CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

SITE 01	TICKET # 952916	CELL
WEIGHMASTER IN - Patrice G. OUT - JAMIE B.		
DATE/TIME IN 7/27/17 9:27 am		DATE/TIME OUT 7/27/17 9:37 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	106,100	NET TONS	32.84	INBOUND
SCALE OUT TARE WEIGHT	40,420	NET WEIGHT	65,680	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.84	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952918	CELL
WEIGHMASTER IN - Patrice G. OUT - Kim L.		
DATE/TIME IN 7/27/17 10:04 am		DATE/TIME OUT 7/27/17 10:23 am
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 115,480 NET TONS 37.91
SCALE OUT TARE WEIGHT 39,660 NET WEIGHT 75,820

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00 37.91	YD tn	Tracking QTY SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952920	CELL
WEIGHMASTER IN - Patrice G. OUT - Kim L.		
DATE/TIME IN 7/27/17 10:28 am		DATE/TIME OUT 7/27/17 10:37 am
VEHICLE 134 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	112,500	NET TONS	36.23	INBOUND
SCALE OUT TARE WEIGHT	40,040	NET WEIGHT	72,460	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
36.23	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 952927	CELL
WEIGHMASTER IN - JAMIE B. OUT - Kim L.		
DATE/TIME IN 7/27/17 11:29 am		DATE/TIME OUT 7/27/17 11:44 am
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	104,280	NET TONS	32.35	INBOUND
SCALE OUT TARE WEIGHT	39,580	NET WEIGHT	64,700	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00 32.35	YD tn	Tracking QTY SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	952936	
WEIGHMASTER		
IN - JAMIE B. OUT - Patrice G.		
DATE/TIME IN	DATE/TIME OUT	
7/27/17 12:30 pm	7/27/17 1:02 pm	
VEHICLE	CONTAINER	
154 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	102,960	NET TONS	31.69	INBOUND
SCALE OUT TARE WEIGHT	39,580	NET WEIGHT	63,380	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.69	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				



NET AMOUNT
TENDERED
CHANGE
CHECK#

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SITE 01	TICKET # 953461	CELL
WEIGHMASTER JAMIE B.		
DATE/TIME IN 8/8/17 12:15 pm		DATE/TIME OUT 8/8/17 2:14 pm
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

INBOUND
INVOICE

1019

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SIGNATURE

SITE 01	TICKET # 953461	CELL
WEIGHMASTER JAMIE B.		
DATE/TIME IN 8/8/17 12:15 pm		DATE/TIME OUT 8/8/17 2:14 pm
VEHICLE 154 KLB		CONTAINER
REFERENCE		
BILL OF LADING		

INBOUND
INVOICE

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

SIGNATURE

SITE REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 953473	CELL
WEIGHMASTER Kim L.		
DATE/TIME IN 8/9/17 9:03 am	DATE/TIME OUT 8/9/17 10:14 am	
VEHICLE 134 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT 109,940	NET TONS 35.07	INBOUND
SCALE OUT TARE WEIGHT 39,800	NET WEIGHT 70,140	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
35.07	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				
		1019				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12)

SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958574	
WEIGHMASTER		
IN - Karyn B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/4/17 12:15 pm	12/4/17 12:32 pm	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WRIGHT	95,520	NET TONS	25.72	INBOUND
SCALE OUT TARE WEIGHT	44,080	NET WEIGHT	51,440	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
25.72	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958574	
WEIGHMASTER		
IN - Karyn B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/4/17 12:15 pm	12/4/17 12:32 pm	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	95,520	NET TONS	25.72	INBOUND
SCALE OUT TARE WEIGHT	44,080	NET WEIGHT	51,440	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
25.72	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

9007

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958565	CELL
WEIGHMASTER IN - Kim L.		OUT - JAMIE B.
DATE/TIME IN 12/4/17 9:47 am	DATE/TIME OUT 12/4/17 10:07 am	
VEHICLE 98 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	90,700	NET TONS	24.02	INBOUND
SCALE OUT TARE WEIGHT	42,660	NET WEIGHT	48,040	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.02	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958565	CELL
WEIGHMASTER IN - Kim L.		OUT - JAMIE B.
DATE/TIME IN 12/4/17 9:47 am	DATE/TIME OUT 12/4/17 10:07 am	
VEHICLE 98 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	90,700	NET TONS	24.02	INBOUND
SCALE OUT TARE WEIGHT	42,660	NET WEIGHT	48,040	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.02	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

01

TICKET #

958564

CELL

WEIGHMASTER

IN - Kim L.

OUT - JAMIE B.

DATE/TIME IN

12/4/17 9:43 am

DATE/TIME OUT

12/4/17 10:03 am

VEHICLE

104 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	91,680	NET TONS	25.48	INBOUND
SCALE OUT TARE WEIGHT	40,720	NET WEIGHT	50,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
25.48	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100%						

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12)

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REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

01

TICKET #

958564

CELL

WEIGHMASTER

IN - Kim L.

OUT - JAMIE B.

DATE/TIME IN

12/4/17 9:43 am

DATE/TIME OUT

12/4/17 10:03 am

VEHICLE

104 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	91,680	NET TONS	25.48	INBOUND
SCALE OUT TARE WEIGHT	40,720	NET WEIGHT	50,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
25.48	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100%						

NET AMOUNT

TENDERED

CHANGE

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REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958572

WEIGHMASTER

IN - Karyn B. OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/4/17 12:05 pm

12/4/17 12:18 pm

VEHICLE

CONTAINER

104 KLB

REFERENCE

BILL OF LADING

SCALE IN GROSS WRIGHT	88,480	NET TONS	23.84	INBOUND
SCALE OUT TARE WEIGHT	40,800	NET WEIGHT	47,680	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.84	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12)

SIGNATURE

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REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958572

WEIGHMASTER

IN - Karyn B. OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/4/17 12:05 pm

12/4/17 12:18 pm

VEHICLE

CONTAINER

104 KLB

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	88,480	NET TONS	23.84	INBOUND
SCALE OUT TARE WEIGHT	40,800	NET WEIGHT	47,680	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.84	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

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REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958581

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/4/17 1:20 pm

12/4/17 1:35 pm

VEHICLE

CONTAINER

104 KLB

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	99,520	NET TONS	29.46	INBOUND
SCALE OUT TARE WEIGHT	40,600	NET WEIGHT	58,920	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.46	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

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RS-F042UPR (07/12) SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958581

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/4/17 1:20 pm

12/4/17 1:35 pm

VEHICLE

CONTAINER

104 KLB

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	99,520	NET TONS	29.46	INBOUND
SCALE OUT TARE WEIGHT	40,600	NET WEIGHT	58,920	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.46	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

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RS-F042UPR (07/12) SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958575	
WEIGHMASTER		
IN - Karyn B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/4/17 12:30 pm	12/4/17 12:39 pm	
VEHICLE	CONTAINER	
132 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	87,560	NET TONS	23.59	INBOUND
SCALE OUT TARE WEIGHT	40,380	NET WEIGHT	47,180	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.59	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12)SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958575	
WEIGHMASTER		
IN - Karyn B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/4/17 12:30 pm	12/4/17 12:39 pm	
VEHICLE	CONTAINER	
132 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	87,560	NET TONS	23.59	INBOUND
SCALE OUT TARE WEIGHT	40,380	NET WEIGHT	47,180	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.59	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12)SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

9007

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	61	TICKET #	958567	CELL
WEIGHMASTER		IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN		12/4/17 10:19 am	DATE/TIME OUT 12/4/17 10:31 am	
VEHICLE		132 KLB	CONTAINER	
REFERENCE				
BILL OF LADING				

SCALE IN GROSS WEIGHT	87,680	NET TONS	23.54	INBOUND
SCALE OUT TARE WEIGHT	40,600	NET WEIGHT	47,080	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.54	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	01	TICKET #	958567	CELL
WEIGHMASTER		IN - Kim L. OUT - JAMIE B.		
DATE/TIME IN		12/4/17 10:19 am	DATE/TIME OUT 12/4/17 10:31 am	
VEHICLE		132 KLB	CONTAINER	
REFERENCE				
BILL OF LADING				

SCALE IN GROSS WEIGHT	87,680	NET TONS	23.54	INBOUND
SCALE OUT TARE WEIGHT	40,600	NET WEIGHT	47,080	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
23.54	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

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CHANGE

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

9007

9/9

SITE 01	TICKET # 958657	CELL
WEIGHMASTER IN - JAMIE B. OUT - Patrice G.		
DATE/TIME IN 12/5/17 1:16 pm	DATE/TIME OUT 12/5/17 1:36 pm	
VEHICLE 175 OMA	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	101,360	NET TONS	27.86	INBOUND
SCALE OUT TARE WEIGHT	45,640	NET WEIGHT	55,720	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.86	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958657	CELL
WEIGHMASTER IN - JAMIE B. OUT - Patrice G.		
DATE/TIME IN 12/5/17 1:16 pm	DATE/TIME OUT 12/5/17 1:36 pm	
VEHICLE 175 OMA	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	101,360	NET TONS	27.86	INBOUND
SCALE OUT TARE WEIGHT	45,640	NET WEIGHT	55,720	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
27.86	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958640

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

12/5/17 11:51 am

DATE/TIME OUT

12/5/17 12:09 pm

VEHICLE

175 OMA

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	104,700	NET TONS	29.21	INBOUND
SCALE OUT TARE WEIGHT	46,280	NET WEIGHT	58,420	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.21	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958640

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

12/5/17 11:51 am

DATE/TIME OUT

12/5/17 12:09 pm

VEHICLE

175 OMA

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	104,700	NET TONS	29.21	INBOUND
SCALE OUT TARE WEIGHT	46,280	NET WEIGHT	58,420	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
29.21	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

61

TICKET #

958654

CELL

9007

WEIGHMASTER

IN - JAMIE B. OUT - Patrice G.

DATE/TIME IN

12/5/17 1:11 pm

DATE/TIME OUT

12/5/17 1:28 pm

VEHICLE

98 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	109,340	NET TONS	33.15	INBOUND
SCALE OUT TARE WEIGHT	43,040	NET WEIGHT	66,300	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.15	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

01

TICKET #

958654

CELL

WEIGHMASTER

IN - JAMIE B. OUT - Patrice G.

DATE/TIME IN

12/5/17 1:11 pm

DATE/TIME OUT

12/5/17 1:28 pm

VEHICLE

98 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	109,340	NET TONS	33.15	INBOUND
SCALE OUT TARE WEIGHT	43,040	NET WEIGHT	66,300	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.15	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

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RS-F042UPR (07/12)

SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958637	9007
WEIGHMASTER		
IN - JAMIE B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/5/17 11:35 am	12/5/17 11:58 am	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	110,220	NET TONS	33.53	INBOUND
SCALE OUT TARE WEIGHT	43,160	NET WEIGHT	67,060	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.53	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12) SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958637	
WEIGHMASTER		
IN - JAMIE B. OUT - Kim L.		
DATE/TIME IN	DATE/TIME OUT	
12/5/17 11:35 am	12/5/17 11:58 am	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	110,220	NET TONS	33.53	INBOUND
SCALE OUT TARE WEIGHT	43,160	NET WEIGHT	67,060	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
33.53	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12) SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958635

9007

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/5/17 11:26 am

12/5/17 11:41 am

VEHICLE

CONTAINER

166 OMA

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	108,140	NET TONS	30.18	INBOUND
SCALE OUT TARE WEIGHT	47,780	NET WEIGHT	60,360	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.18	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12) SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE

TICKET #

CELL

01

958635

WEIGHMASTER

IN - JAMIE B.

OUT - Kim L.

DATE/TIME IN

DATE/TIME OUT

12/5/17 11:26 am

12/5/17 11:41 am

VEHICLE

CONTAINER

166 OMA

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	108,140	NET TONS	30.18	INBOUND
SCALE OUT TARE WEIGHT	47,780	NET WEIGHT	60,360	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
30.18	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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RS-F042UPR (07/12) SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	01	TICKET #	958648	CELL	907
WEIGHMASTER		IN - JAMIE B. OUT - Patrice G.			
DATE/TIME IN		12/5/17 12:38 pm		DATE/TIME OUT 12/5/17 1:01 pm	
VEHICLE		166 OMA		CONTAINER	
REFERENCE					
BILL OF LADING					

SCALE IN GROSS WEIGHT	104,940	NET TONS	28.96	INBOUND
SCALE OUT TARE WEIGHT	47,020	NET WEIGHT	57,920	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.96	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

Jamie B.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	01	TICKET #	958648	CELL	
WEIGHMASTER		IN - JAMIE B. OUT - Patrice G.			
DATE/TIME IN		12/5/17 12:38 pm		DATE/TIME OUT 12/5/17 1:01 pm	
VEHICLE		166 OMA		CONTAINER	
REFERENCE					
BILL OF LADING					

SCALE IN GROSS WEIGHT	104,940	NET TONS	28.96	INBOUND
SCALE OUT TARE WEIGHT	47,020	NET WEIGHT	57,920	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.96	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

Jamie B.

NET AMOUNT
TENDERED
CHANGE
CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

9007

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958670	CELL
WEIGHMASTER IN - JAMIE B. OUT - Patrice G.		
DATE/TIME IN 12/5/17 2:24 pm	DATE/TIME OUT 12/5/17 2:36 pm	
VEHICLE 98 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	108,980	NET TONS	32.92	INBOUND
SCALE OUT TARE WEIGHT	43,140	NET WEIGHT	65,840	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.92	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958670	CELL
WEIGHMASTER IN - JAMIE B. OUT - Patrice G.		
DATE/TIME IN 12/5/17 2:24 pm	DATE/TIME OUT 12/5/17 2:36 pm	
VEHICLE 98 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	108,980	NET TONS	32.92	INBOUND
SCALE OUT TARE WEIGHT	43,140	NET WEIGHT	65,840	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
32.92	tn	SW-CONT SOIL				
		Origin:BELLEVUE/KING 100%				

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RS-F042UPR (07/12)

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK#

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

333467
Market Holdings Company LLC
1000 2nd Ave., Suite 1800
Seattle, WA 98104
Contract:LW-17202

For KLB
Emailed Republic 1/4/17 for new copy
-OO

SITE	TICKET #	CELL
01	958626	
WEIGHMASTER		
IN - Patrice G. OUT - Kim L.		
DATE/TIME IN	12/5/17 10:22 am	DATE/TIME OUT
VEHICLE	175 OMA	CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	110,500	NET TONS	31.91	INBOUND
SCALE OUT TARE WEIGHT	46,680	NET WEIGHT	63,820	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.91	tn	SW-CONT SOIL W/FUEL Origin:SEATTLE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12) SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

333467
Market Holdings Company LLC
1000 2nd Ave., Suite 1800
Seattle, WA 98104
Contract:LW-17202

SITE	TICKET #	CELL
01	958626	
WEIGHMASTER		
IN - Patrice G. OUT - Kim L.		
DATE/TIME IN	12/5/17 10:22 am	DATE/TIME OUT
VEHICLE	175 OMA	CONTAINER
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	110,500	NET TONS	31.91	INBOUND
SCALE OUT TARE WEIGHT	46,680	NET WEIGHT	63,820	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
31.91	tn	SW-CONT SOIL W/FUEL Origin:SEATTLE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12) SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER 012976

KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #

958676

CELL

WEIGHMASTER

IN - JAMIE B. OUT - Patrice G.

DATE/TIME IN

12/5/17 2:36 pm

DATE/TIME OUT

12/5/17 2:54 pm

VEHICLE

175 OMA

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT 93,860 NET TONS 24.06
SCALE OUT TARE WEIGHT 45,740 NET WEIGHT 48,120

INBOUND
INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.06	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

REPRINT

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

9007

SITE	TICKET #	CELL
01	958771	
WEIGHMASTER		
JAMIE B.		
DATE/TIME IN	DATE/TIME OUT	
12/6/17 3:01 pm	12/6/17 3:15 pm	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	92,660	NET TONS	24.75	INBOUND
SCALE OUT TARE WEIGHT	43,160	NET WEIGHT	49,500	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.75	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12) SIGNATURE

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

REPRINT

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE	TICKET #	CELL
01	958771	
WEIGHMASTER		
JAMIE B.		
DATE/TIME IN	DATE/TIME OUT	
12/6/17 3:01 pm	12/6/17 3:15 pm	
VEHICLE	CONTAINER	
98 KLB		
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	92,660	NET TONS	24.75	INBOUND
SCALE OUT TARE WEIGHT	43,160	NET WEIGHT	49,500	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
24.75	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT

TENDERED

CHANGE

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SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

9007

3/3

SITE 01	TICKET # 958815	CELL
WEIGHMASTER IN - Karyn B. OUT - Patrice G.		
DATE/TIME IN 12/7/17 12:33 pm	DATE/TIME OUT 12/7/17 1:20 pm	
VEHICLE 106 KLB	CONTAINER	
REFERENCE 005		
BILL OF LADING		

SCALE IN GROSS WEIGHT	116,220	NET TONS	37.68	INBOUND
SCALE OUT TARE WEIGHT	40,860	NET WEIGHT	75,360	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
37.68	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____

SITE

REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER

012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE 01	TICKET # 958815	CELL
WEIGHMASTER IN - Karyn B. OUT - Patrice G.		
DATE/TIME IN 12/7/17 12:33 pm	DATE/TIME OUT 12/7/17 1:20 pm	
VEHICLE 106 KLB	CONTAINER	
REFERENCE		
BILL OF LADING		

SCALE IN GROSS WEIGHT	116,220	NET TONS	37.68	INBOUND
SCALE OUT TARE WEIGHT	40,860	NET WEIGHT	75,360	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
37.68	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				

NET AMOUNT
TENDERED
CHANGE
CHECK#

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RS-F042UPR (07/12) SIGNATURE _____

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #
958802

CELL

WEIGHMASTER
Patrice G.

DATE/TIME IN
12/7/17 10:59 am

DATE/TIME OUT
12/7/17 11:27 am

VEHICLE
106 KLB

CONTAINER

REFERENCE
005

BILL OF LADING

SCALE IN GROSS WEIGHT	98,900	NET TONS	28.98	INBOUND
SCALE OUT TARE WEIGHT	40,940	NET WEIGHT	57,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.98	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100%						

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE
REGIONAL DISPOSAL INTERMODAL --
3rd and lander -Seattle, WA

CUSTOMER
012976
KLB Construction Inc
PO Box 158
Mukilteo, WA 98275-0158
Contract:TB-11451 PO:217005

SITE
01

TICKET #
958802

CELL

WEIGHMASTER
Patrice G.

DATE/TIME IN
12/7/17 10:59 am

DATE/TIME OUT
12/7/17 11:27 am

VEHICLE
106 KLB

CONTAINER

REFERENCE

BILL OF LADING

SCALE IN GROSS WEIGHT	98,900	NET TONS	28.98	INBOUND
SCALE OUT TARE WEIGHT	40,940	NET WEIGHT	57,960	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
28.98	tn	SW-CONT SOIL				
Origin:BELLEVUE/KING 100%						

NET AMOUNT

TENDERED

CHANGE

CHECK#

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RS-F042UPR (07/12)

SIGNATURE

SITE	REGIONAL DISPOSAL INTERMODAL -- 3rd and lander -Seattle, WA

CUSTOMER	012976 KLB Construction Inc PO Box 158 Mukilteo, WA 98275-0158 Contract:TB-11451 PO:217005

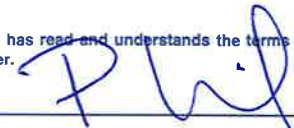
SITE 01	TICKET #	958821	CELL
WEIGHMASTER		IN - JAMIE B. OUT - Karyn B.	
DATE/TIME IN		12/7/17 2:15 pm	DATE/TIME OUT 12/7/17 2:27 pm
VEHICLE		106 KLB	CONTAINER
REFERENCE			
BILL OF LADING			

SCALE IN GROSS WEIGHT	93,620	NET TONS	26.30	INBOUND
SCALE OUT TARE WEIGHT	41,020	NET WEIGHT	52,600	INVOICE

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	Tracking QTY				
26.30	tn	SW-CONT SOIL Origin:BELLEVUE/KING 100%				



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SIGNATURE 

NET AMOUNT
TENDERED
CHANGE
CHECK#