

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

for
Sound Transit

July 15, 2015



1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940

**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.
401 South Jackson Street
Seattle, Washington 98104-2826

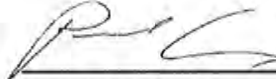
Attention: Mark Menard

Prepared by:

GeoEngineers, Inc.
1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940



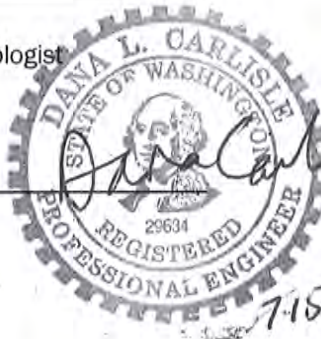
Tricia S. DeOme
Environmental Geologist



Paul R. Craig, LG
Senior Project Manager

Dana Carlisle, PE
Principal

PRC:PSD:DLC:lw



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.

Table of Contents

1.0 INTRODUCTION AND BACKGROUND	1
2.0 CONTAMINANTS OF CONCERN	2
2.1. Fill Material	2
2.2. Sediment in Stormwater Pond.....	2
2.3. Groundwater/DWR #2	2
3.0 CRITERIA	3
4.0 SCOPE OF SERVICES	3
5.0 SUBSURFACE EXPLORATIONS AND SAMPLING	5
5.1. General.....	5
5.2. Future Parking Garage and Track Areas	6
5.2.1. Subsurface Explorations	6
5.2.2. Chemical Analytical Results (Table 1)	6
5.3. Future Detention Pond Area	8
5.3.1. Subsurface Explorations	8
5.3.2. Chemical Analytical Results (Tables 2 and 3)	8
5.4. Groundwater Dewatering at DWR #2.....	9
5.4.1. Monitoring Well Installation	9
5.4.2. Groundwater Sampling	10
5.4.3. Chemical Analytical Results – Groundwater (Table 5).....	10
6.0 CONCLUSIONS	11
6.1. Future Parking Garage and Track Areas	11
6.2. Future Detention Pond Area	11
6.3. Groundwater Dewatering at DWR #2.....	12
7.0 LIMITATIONS	12

LIST OF TABLES

Table 1. Summary of Soil Chemical Analytical Results - Future Parking Garage and Track Areas
Table 2. Summary of Chemical Analytical Results - Future Detention Pond Area (Hand Auger Borings)
Table 3. Summary of Soil Chemical Analytical Results - Future Detention Pond Area (Hollow-Stem Auger and Direct-Push Borings)
Table 4. Summary of Surface Water Criteria
Table 5. Summary of Chemical Analytical Results - Groundwater

LIST OF FIGURES

Figure 1. Vicinity Map
Figure 2. Exploration Locations – Existing Conditions and Former Structures
Figure 3. Exploration Locations – E320 Construction Plans

APPENDICES

Appendix A. Field Exploration Program
Figure A-1. Key to Exploration Logs
Figures A-2 through A-15. Logs of Borings
Appendix B. Site Investigation Plan
Appendix C. Chemical Analytical Program
Appendix D. Report Limitations and Guidelines for Use

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:

- ¹ 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 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.
- 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.
- | | | | |
|--|-----------------------------|---|-------------------------|
| -- = 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 sheen < = 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.

Bold 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

	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	
Analyte											
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

SU = standard unit

µg/L = micrograms per liter

mg/L = milligrams per liter

degrees F = degrees Fahrenheit

Green highlighting = Lowest Applicable Surface Water Criteria

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			Lowest Applicable Surface Water Criteria (See Table 1)	MTCA Method A Cleanup Level
Approximate Depth to Groundwater (feet BTOC) ³	0.81	0.71	8.18	7.77	1.28	1.65				
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

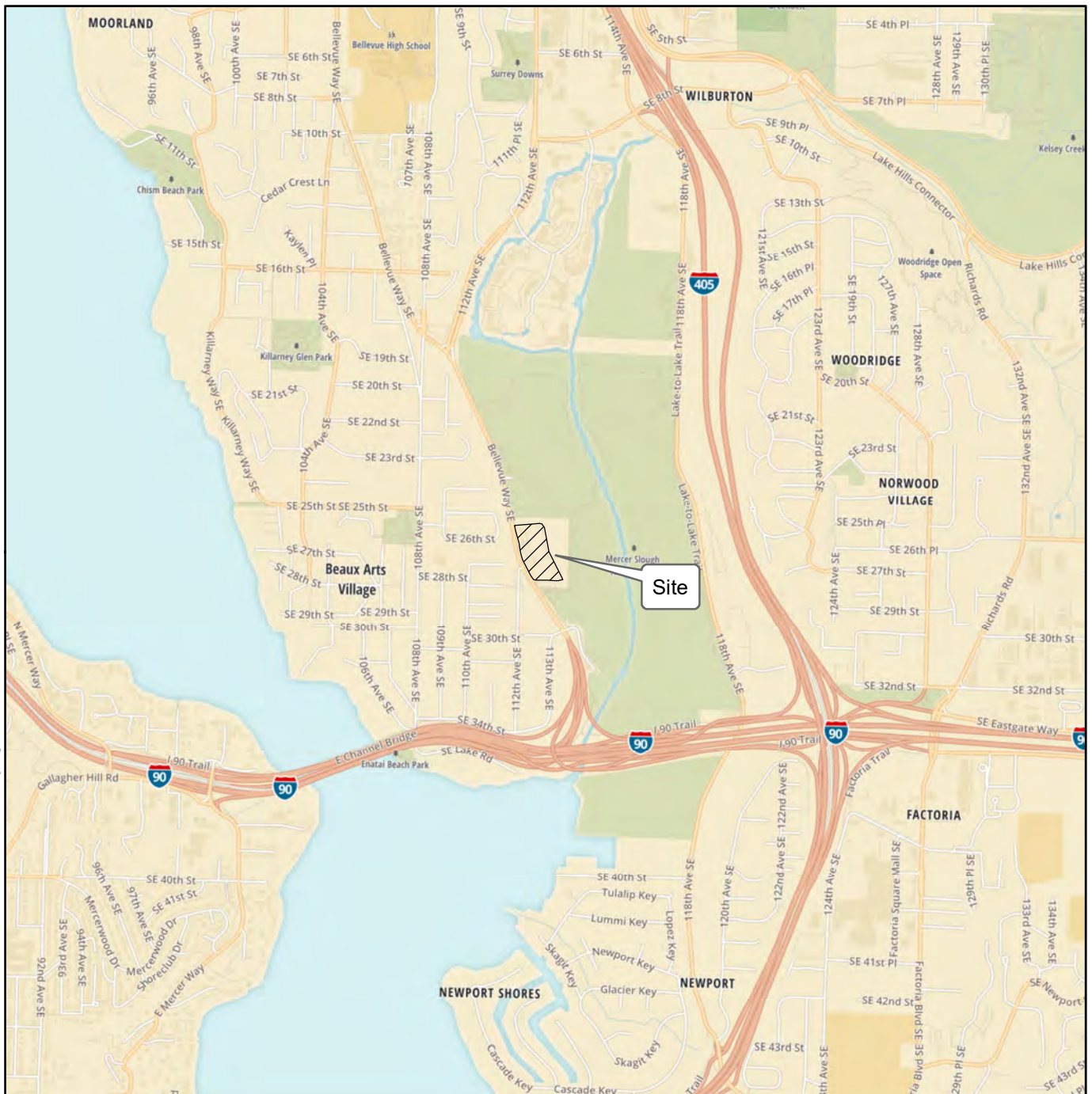
TEF = Toxicity Equivalency Factor as defined in WAC 173-340-900 Table 708-2

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

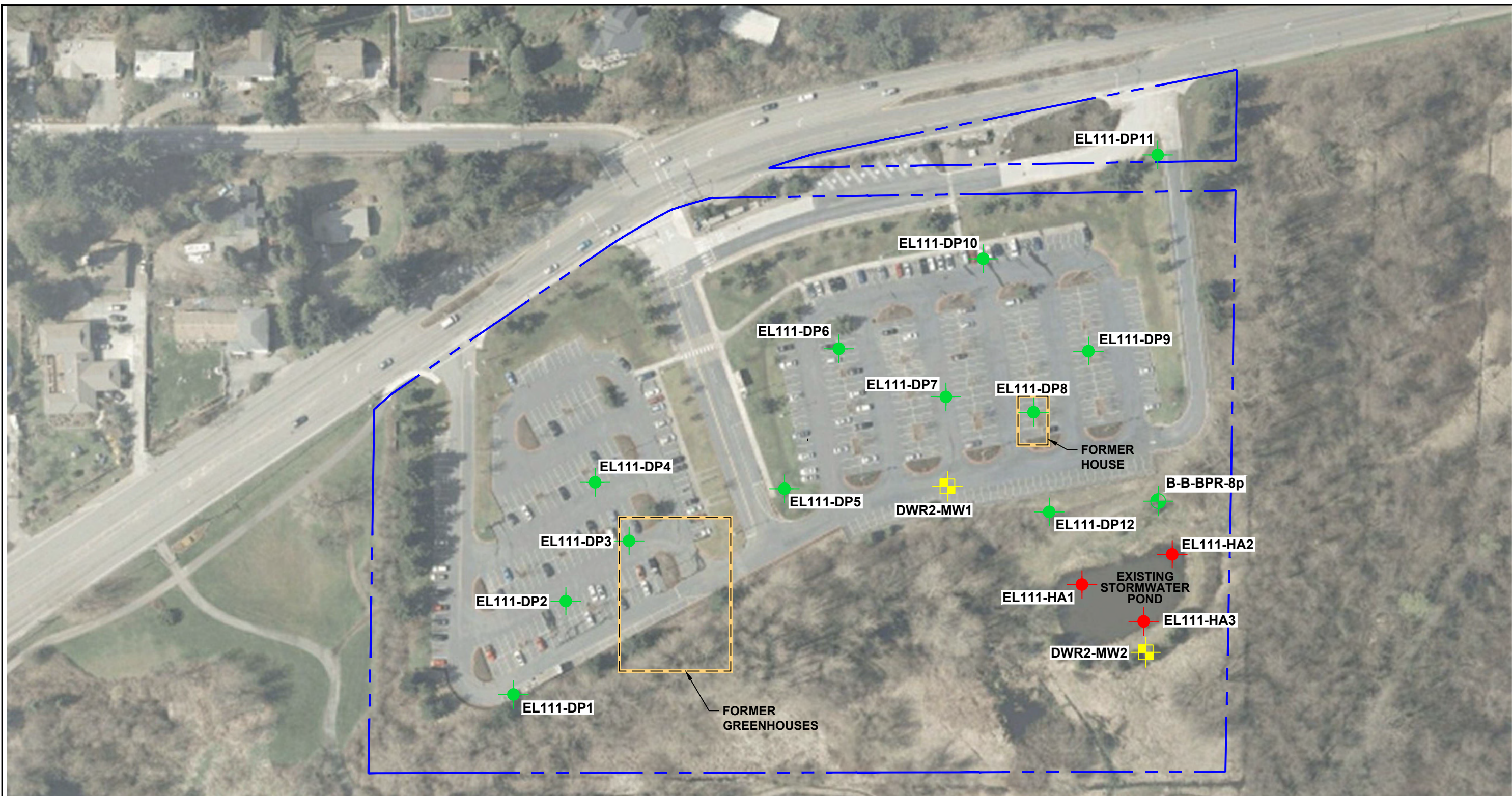
Vicinity Map

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\4082044\01_EL111 F2 Data Report.dwg TAB:Figure 2 - Boring locations cvansly/ke July 15, 2015

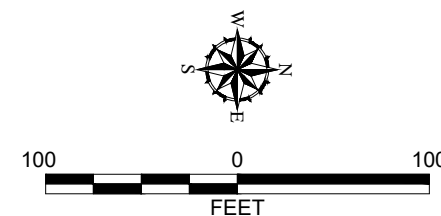


Legend

- 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:

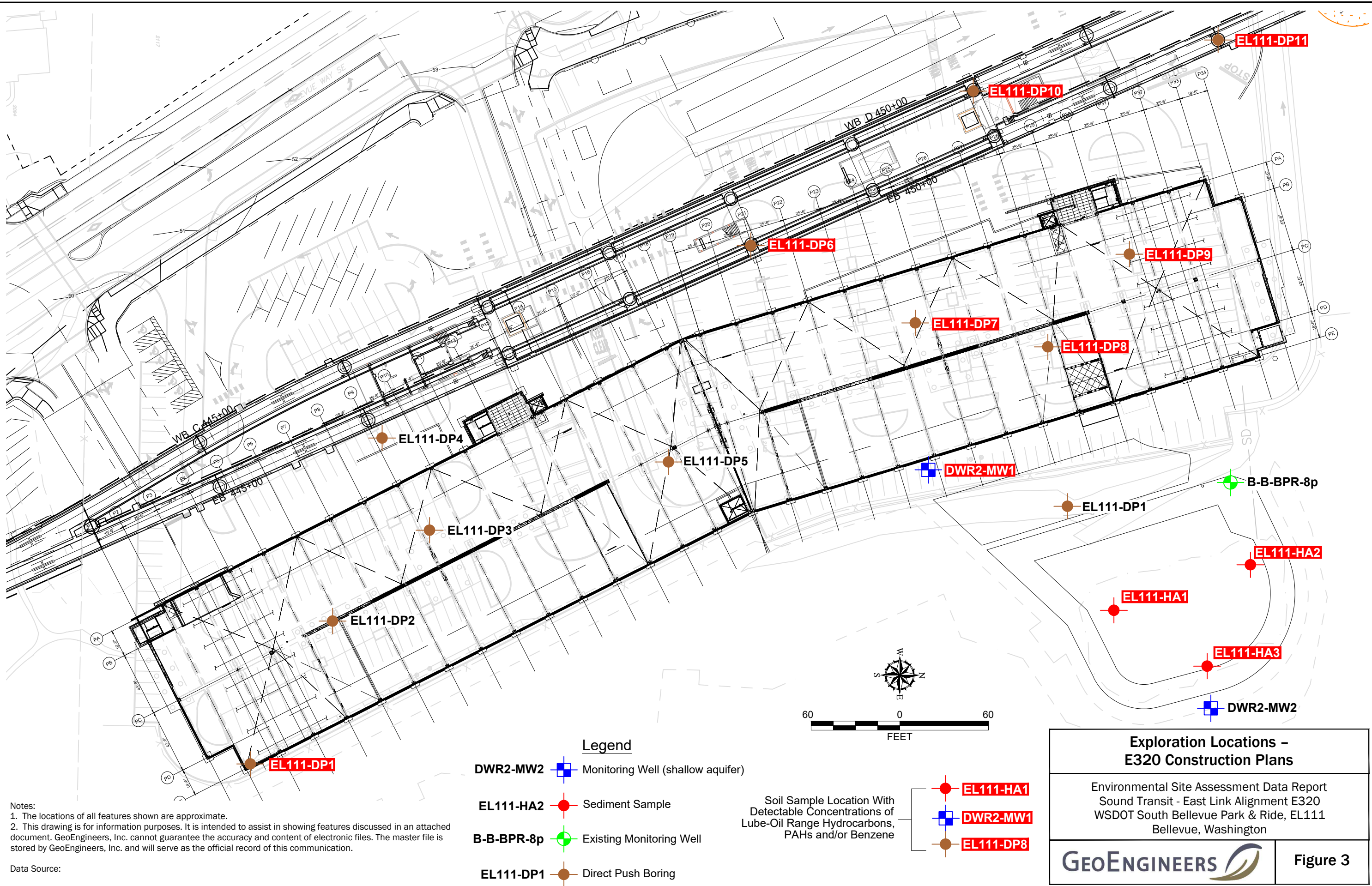


Exploration Locations - Existing Conditions and Former Structures

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



Figure 2



Exploration Locations - E320 Construction Plans	
Environmental Site Assessment Data Report Sound Transit - East Link Alignment E320 WSDOT South Bellevue Park & Ride, EL111 Bellevue, Washington	
GEOENGINEERS 	Figure 3

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
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY 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		

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

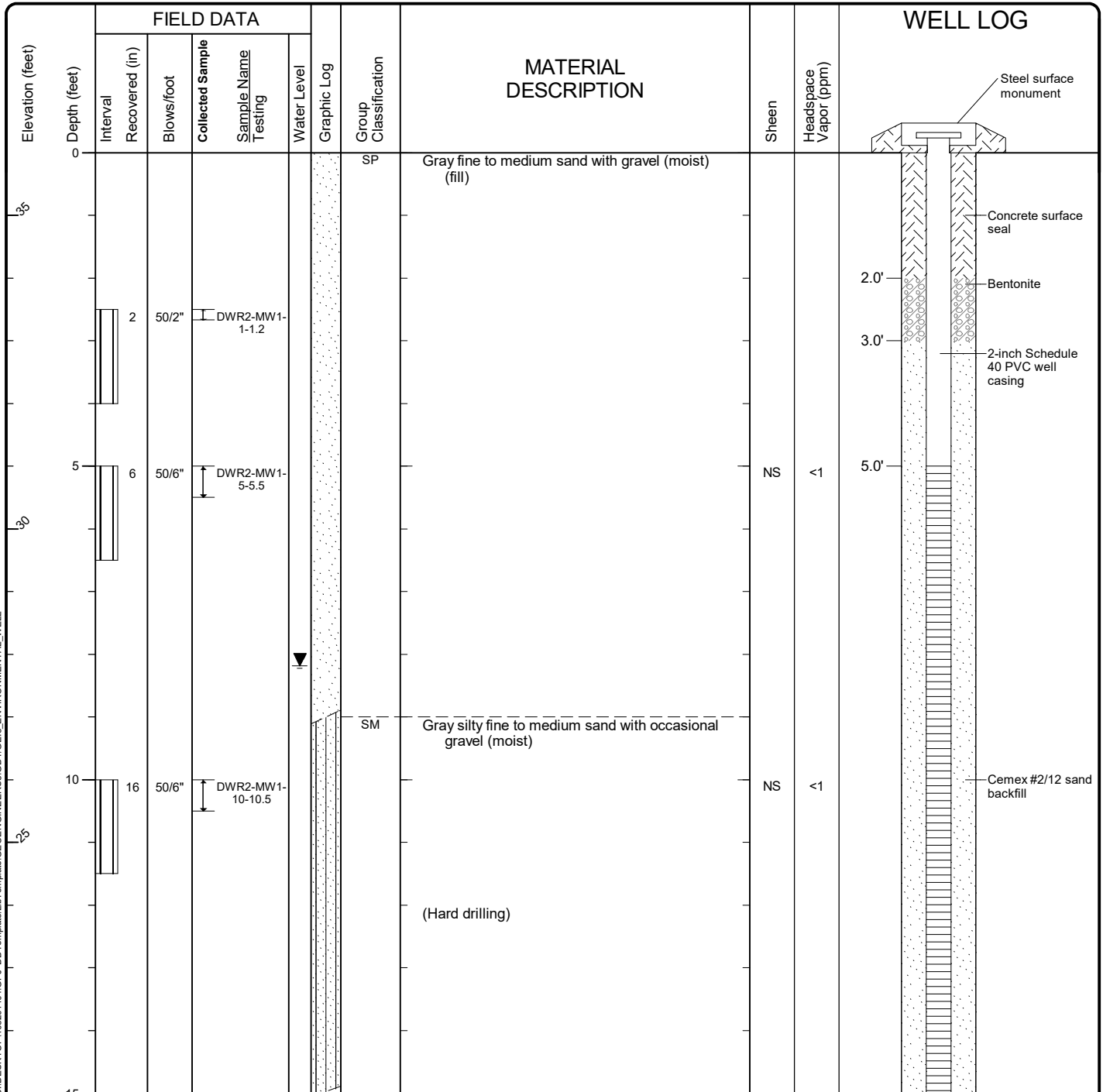
%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
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		<u>Groundwater</u> <u>Date Measured</u> 3/16/2015 <u>Depth to Water (ft)</u> 8.2 <u>Elevation (ft)</u> 27.3
Latitude 47° 35' 12.82" N Longitude 122° 11' 23.19" W			Horizontal Datum Geographic		
Notes:					



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

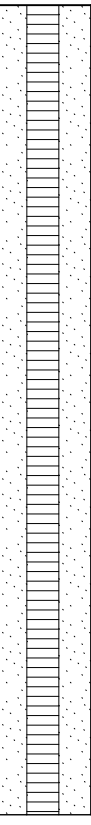
Log of Monitoring Well DWR2-MW1



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.

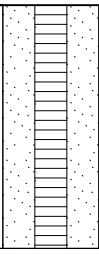
Log of Monitoring Well DWR2-MW1 (continued)



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 38			Hammer Data		Drilling Equipment Track Mounted Hollow-Stem Auger LAR
Latitude 47° 35' 11.15" N Longitude 122° 11' 23.02" W			System Datum Geographic		Groundwater Date Measured
Notes:			Depth to Water (ft) Elevation (ft)		

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Water Level				
0		48				SM			
						SP-SM			
						SM			
35				EL111-DP-5-2-3					
5		48		EL111-DP-5-5-6			NS	<1	
60						ML			
						SM			
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) 15	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' 12.71" N Longitude 122° 11' 24.44" 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				
0	48					AC	NS	<1	
						SP			
						SP-SM			
35				EL111-DP-7-2-3					
5	48						NS	<1	
30				EL111-DP-7-7-8		SM			
10	48						NS	<1	
5									
15									

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

Log of Direct-Push Boring ELL111-DP7



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

Figure A-10
 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	Graphic Log				
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

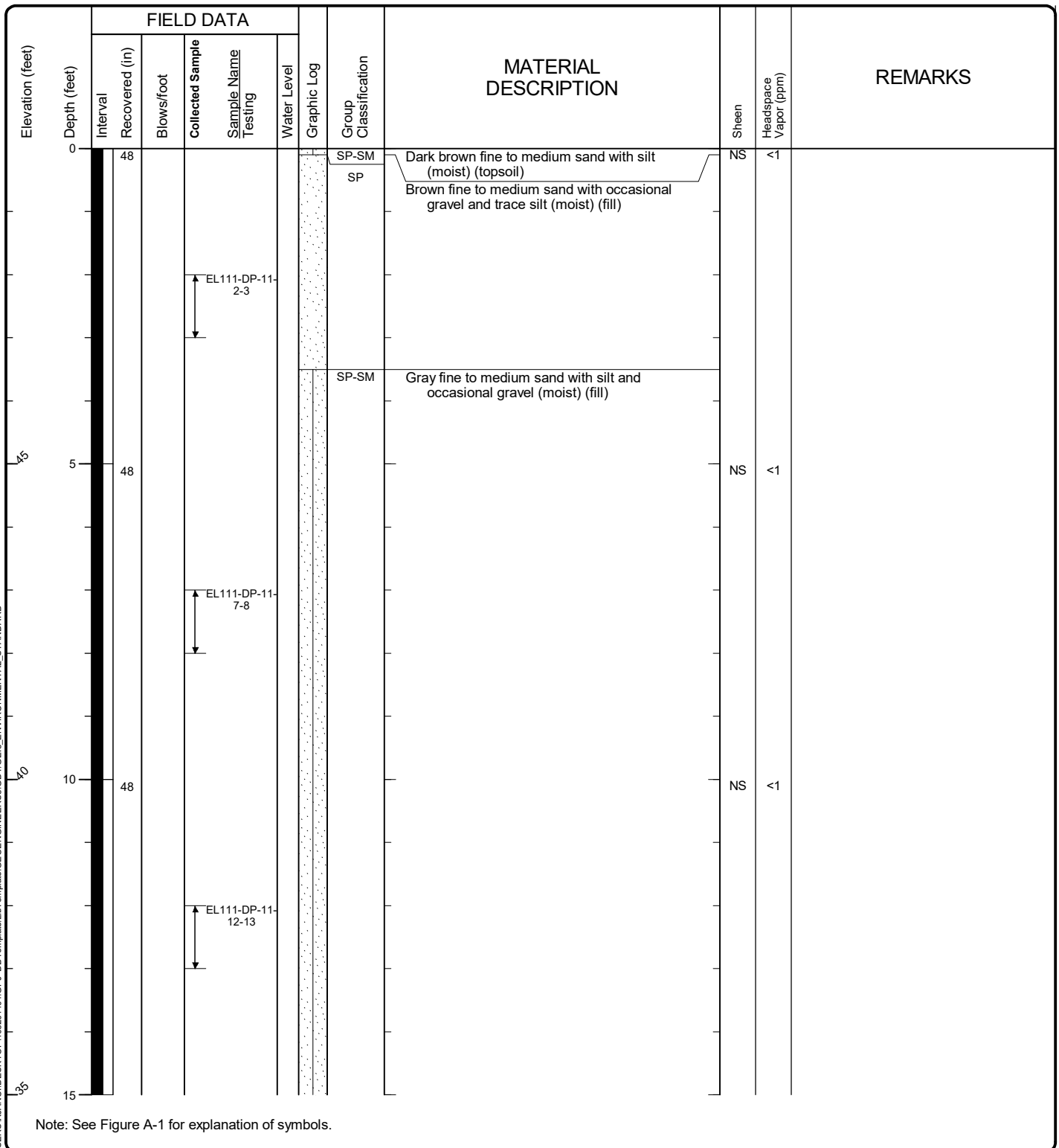


Project: ELINK 320 - EL111 Park and Ride
 Project Location: Bellevue, Washington
 Project Number: 4082-044-01

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.GE\ENGINEERS\GDT\GEB\ENVIRONMENTAL_STANDARD

Start Drilled 3/7/2015	End 3/7/2015	Total Depth (ft) 25	Logged By Checked By BB	Driller Cascade	Drilling Method Direct-Push
Surface Elevation (ft) Vertical Datum 50			Hammer Data		Drilling Equipment Track Mounted Hollow-Stem Auger LAR
Latitude 47° 35' 14.86" N Longitude 122° 11' 28.22" W			System Datum Geographic		Groundwater Date Measured Depth to Water (ft) Elevation (ft)
Notes:					



Log of Direct-Push Boring ELL111-DP11



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

Figure A-14
 Sheet 1 of 2

Tacoma Date: 4/29/15 Path: C:\Users\KJ\ANCI\DESKTOP\408204401\GPJ DBTemplate\LotTemplate.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

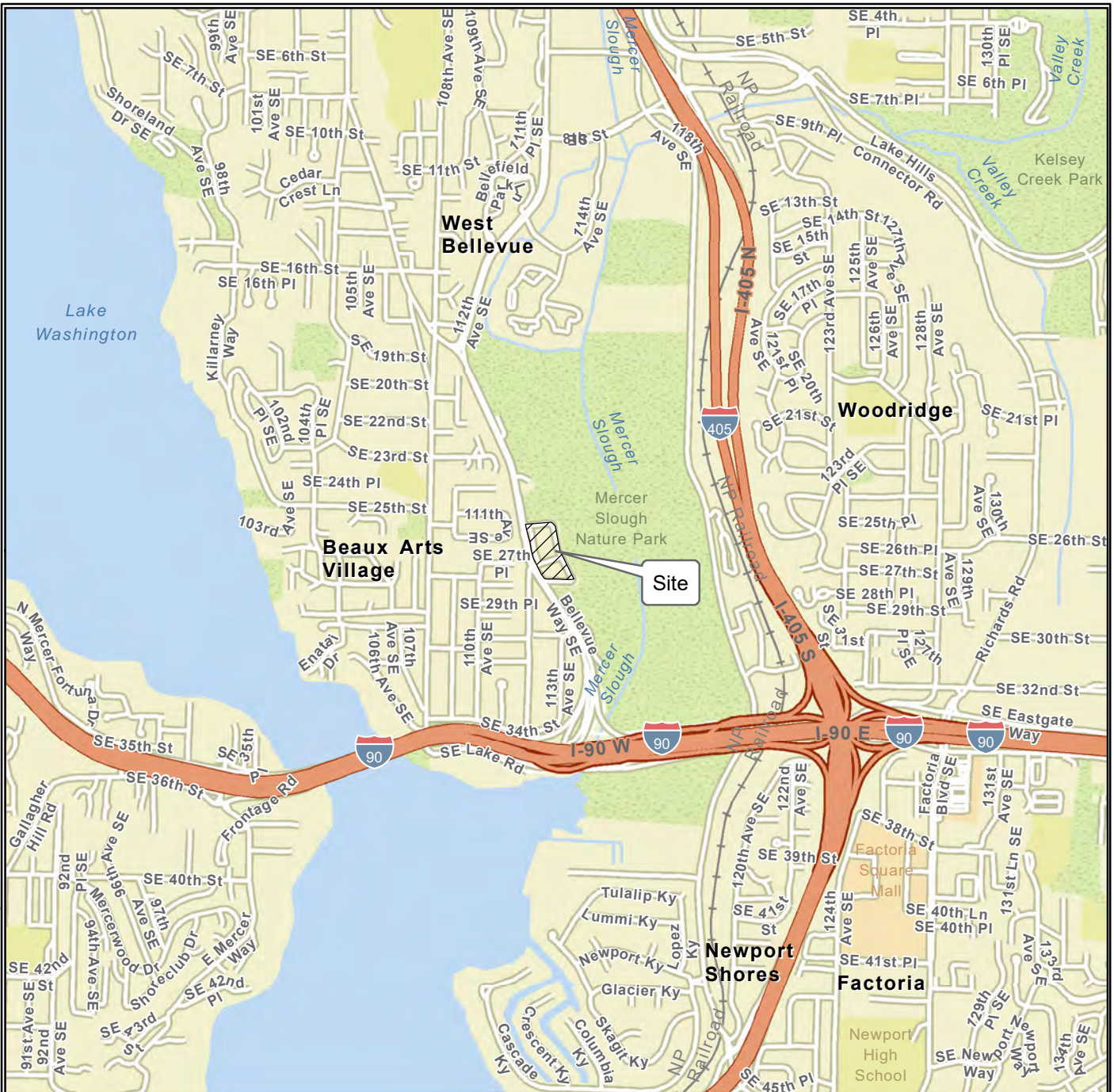
Traffic Statement

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



2,000 0 2,000
Feet

Vicinity Map

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













Figure 1

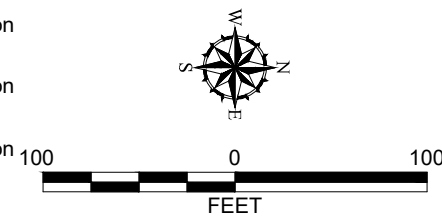
Office: TAC \\TAC\projects\4\4082044\CAD\CAD Files from ST\03_Sheet Files\4082044_EL111 Figures.dwg TAB:Figure 2 hmar January 27, 2015



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.

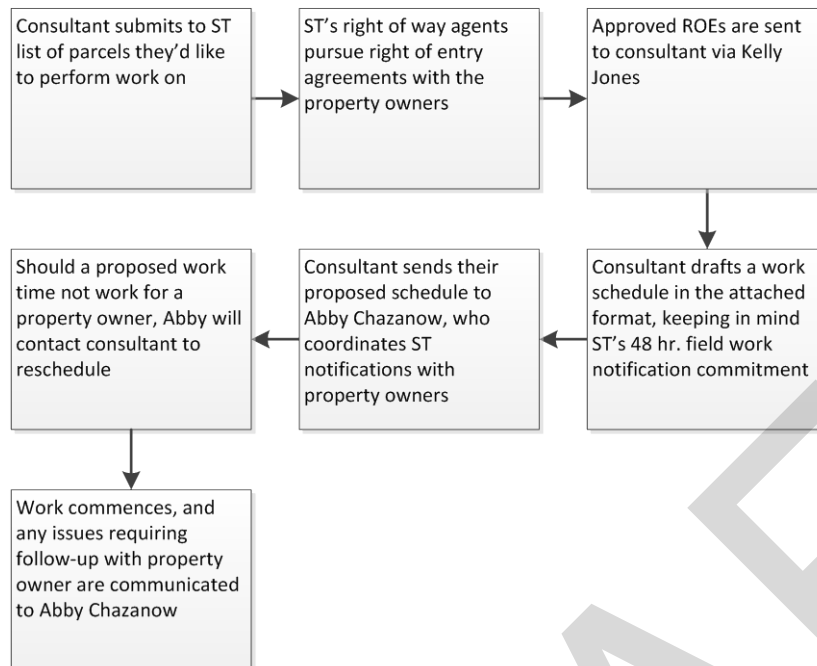
Information:Private Property General Requirements:

- 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

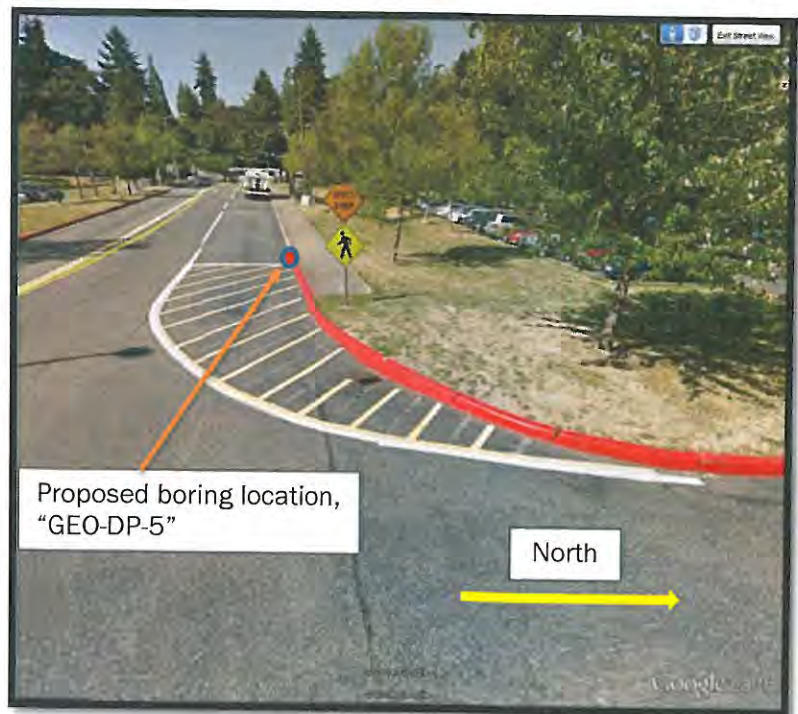
Project Information

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



2,000 0 2,000
Feet

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

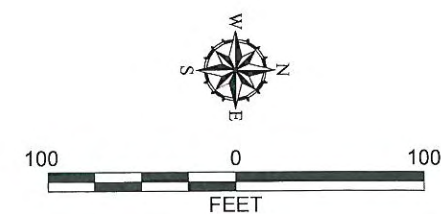
Figure 1



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

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:

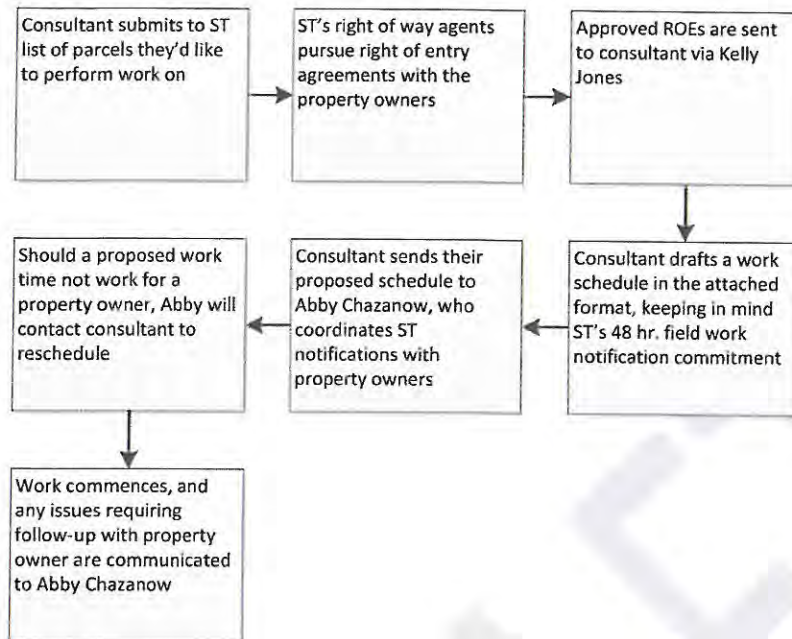
Private Property General Requirements:

- 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", followed by a long horizontal flourish.

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:</i>						
	<i>Percent Recovery</i>	<i>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	
<i>Surrogate: Percent Recovery 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
 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-1-1.5-2					
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
 Laboratory Reference: 1502-257
 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
<hr/>						
Lab ID:	02-257-01					
Client ID:	EL111-HA-1-0-0.5					
<hr/>						
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
<hr/>						
Lab ID:	02-257-05					
Client ID:	EL111-HA-2-0-0.5					
<hr/>						
Hexavalent Chromium	ND	3.0	7196A mod	3-20-15	3-20-15	
<hr/>						

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	
Lube Oil Range	ND	ND	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
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
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.on-site-env.com

Chain of Custody

Page 1 of 2

ENVIRONMENTAL INC.									
Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com									
Company: Geo Engineers									
Project Number: 4082-044-01 T0200									
Project Name: Sound Transit - Bellevue Park and Ride									
Project Manager: Tania DeDome									
Sampled by: Hannah McDonough									
Lab ID: 1111 Sample Identification									
Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> _____ (other)									
Laboratory Number: 02-257									
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									
HOLD									
HOLD									
Hex chrome									
% Moisture									
Date Sampled Time Sampled Matrix									
1 2/27/15 1155 Soil									
2 2/27/15 1200									
3 2/27/15 1210									
4 2/27/15 1215									
5 2/27/15 1320									
6 2/27/15 1330									
7 2/27/15 1340									
8 2/27/15 1350									
9 2/27/15 1430									
10 2/27/15 1440									
Signature: [Signature] Company: Geo Engineer Date: 2/27/15 Time: 1700									
Comments/Special Instructions: Added 3/13/15 DB (STA)									
Relinquished									
Received									
Relinquished									
Received									
Relinquished									
Received									
Reviewed/Date									
Reviewed/Date									
Chromatograms with final report <input type="checkbox"/>									

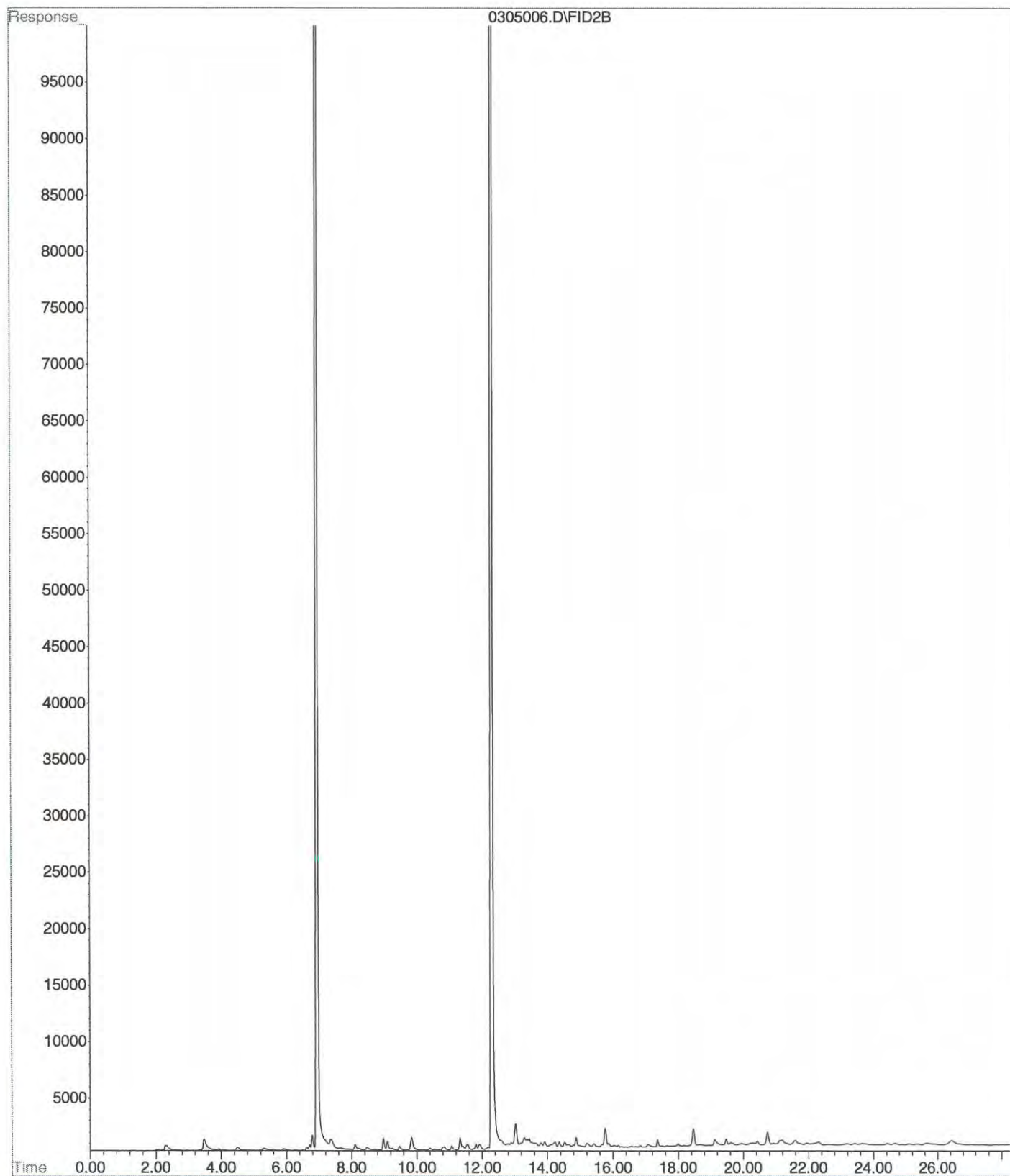


Chain of Custody

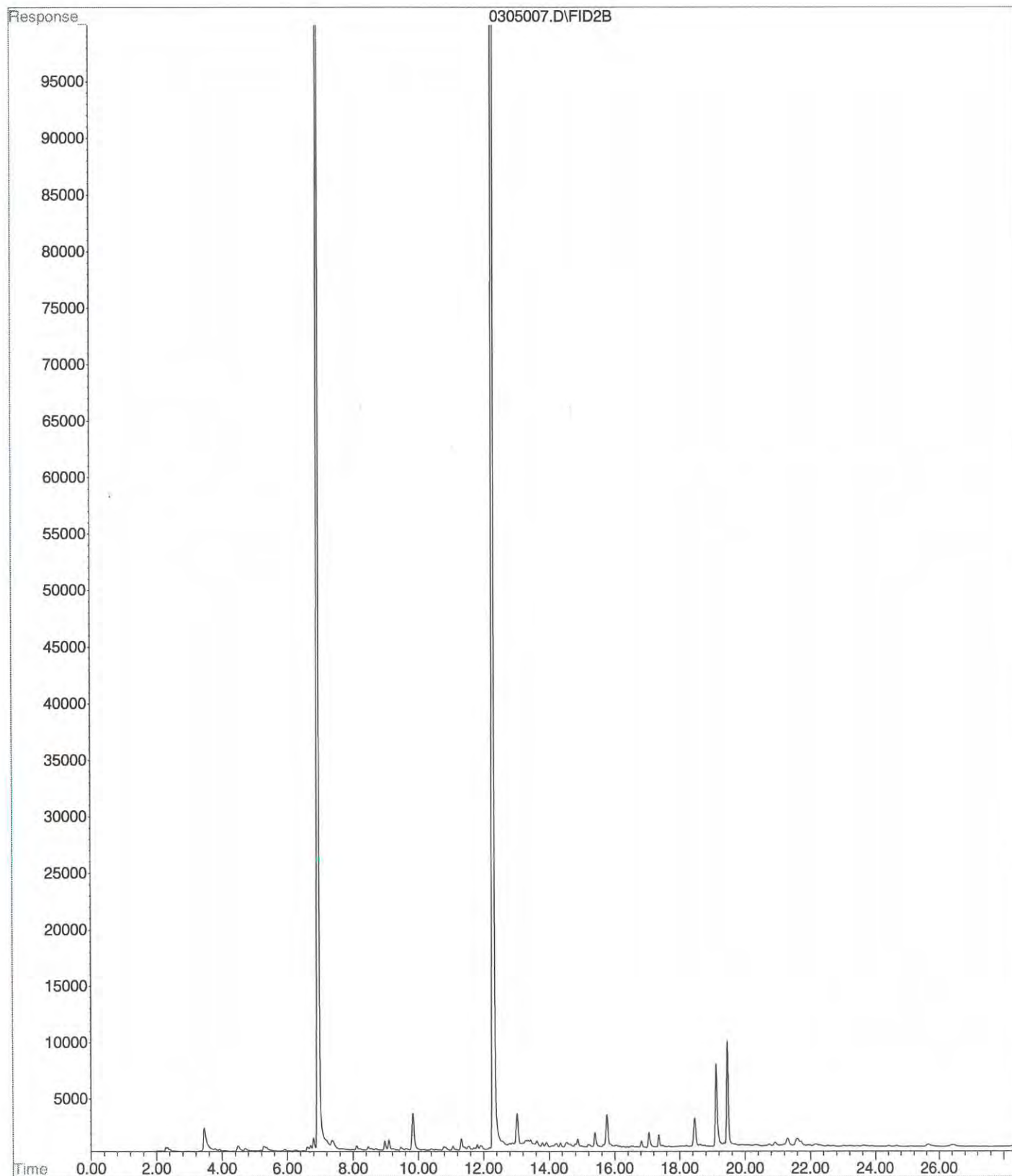
Page 2 of 2

[illegible]

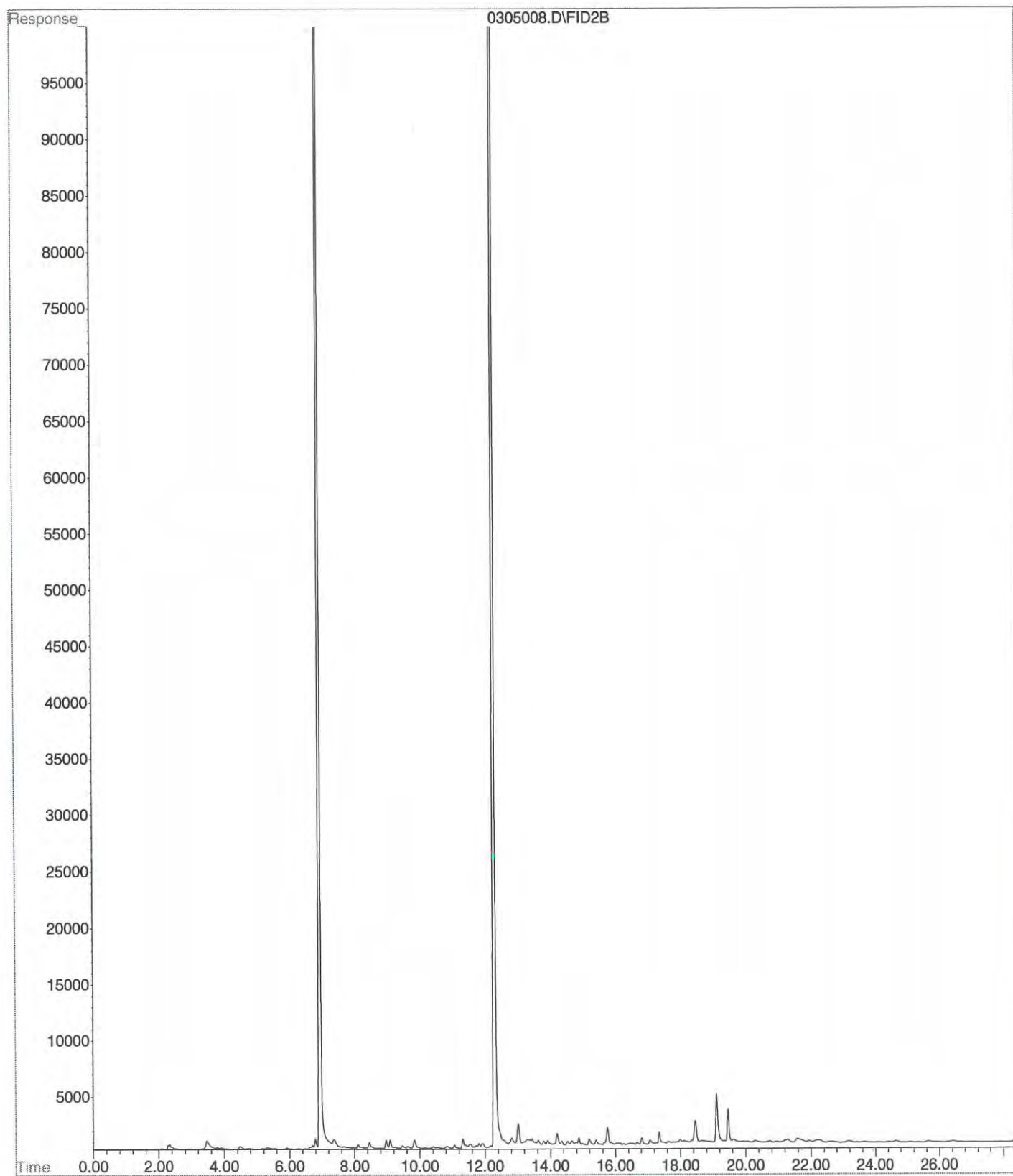
File : X:\BTEX\DARYL\DATA\D150305\0305006.D
Operator :
Acquired : 5 Mar 2015 15:16 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-01s
Misc Info : V2-36-17
Vial Number: 6



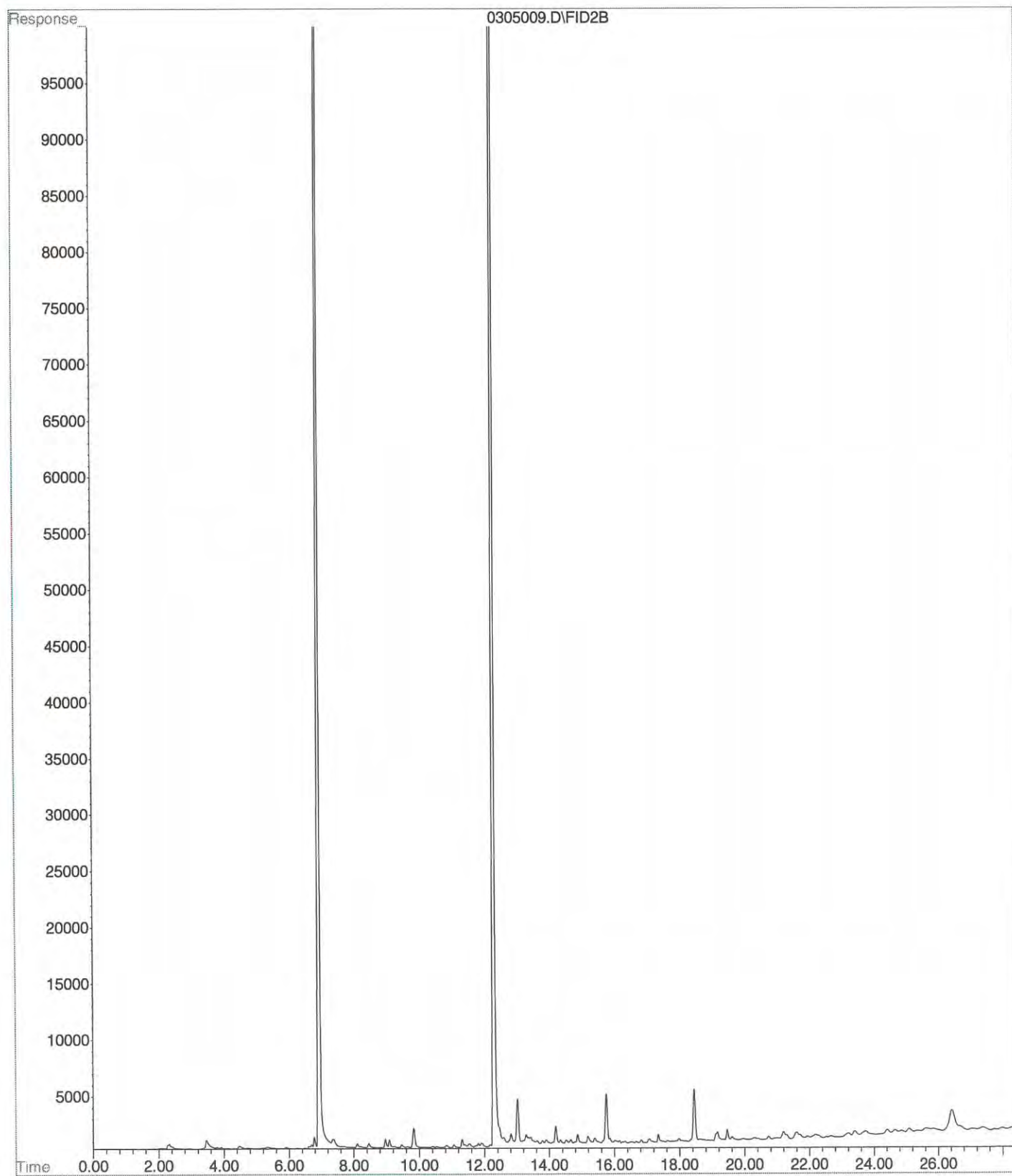
File : X:\BTEX\DARYL\DATA\D150305\0305007.D
Operator :
Acquired : 5 Mar 2015 15:50 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-04s
Misc Info : V2-36-17
Vial Number: 7



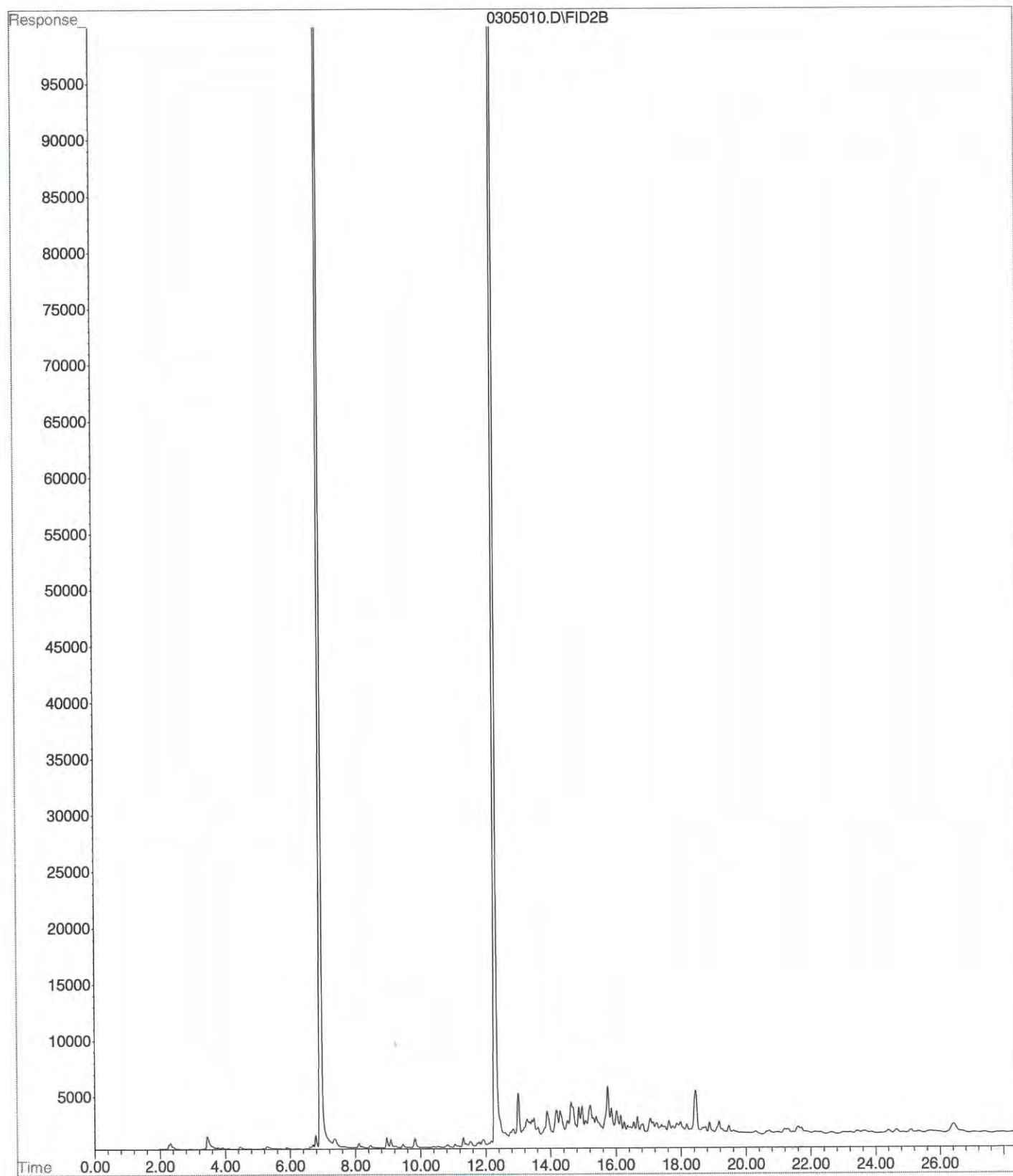
File : X:\BTEX\DARYL\DATA\D150305\0305008.D
Operator :
Acquired : 5 Mar 2015 16:23 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-05s
Misc Info : V2-36-17
Vial Number: 8



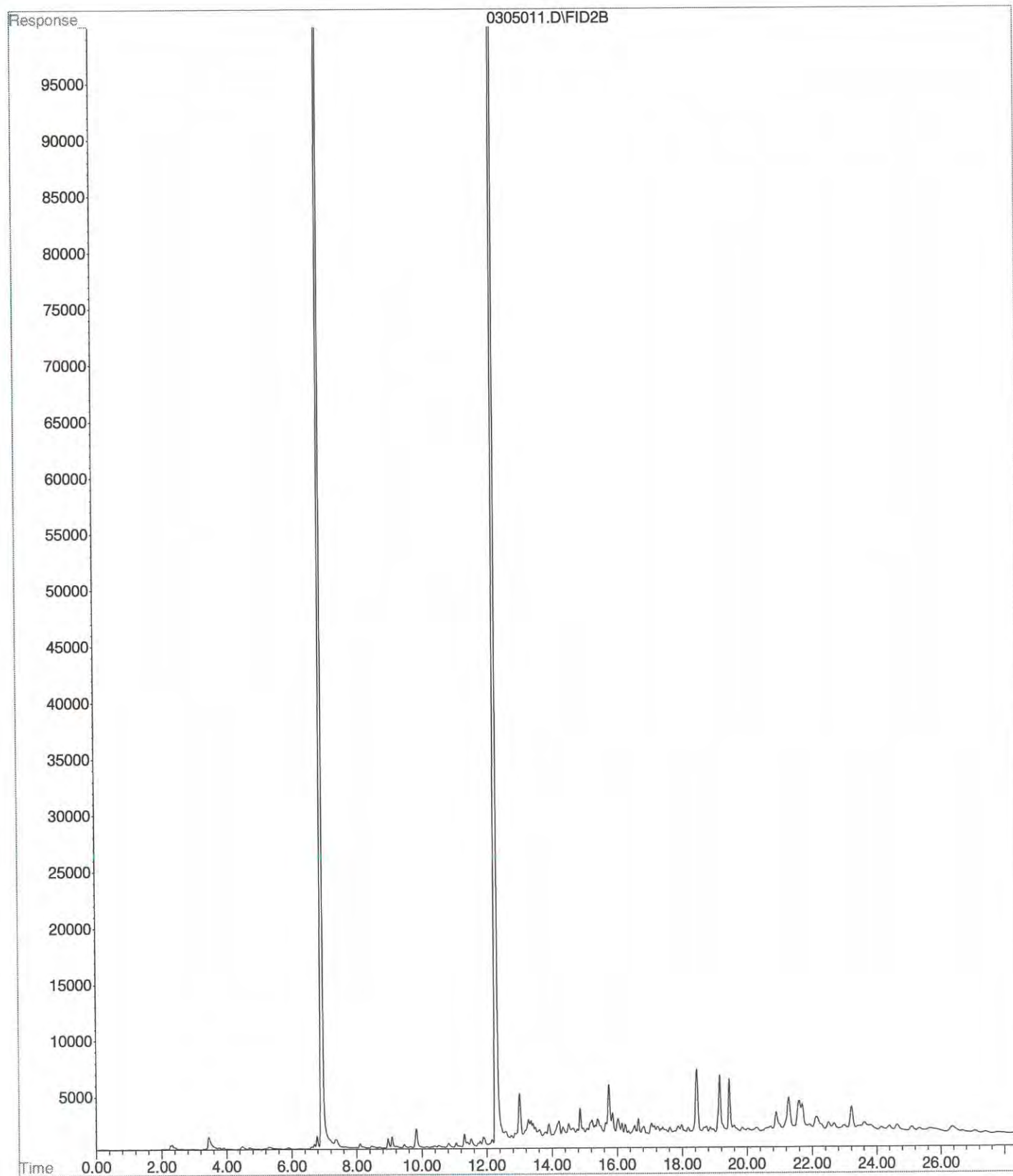
File : X:\BTEX\DARYL\DATA\D150305\0305009.D
Operator :
Acquired : 5 Mar 2015 16:56 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-06s
Misc Info : V2-36-17
Vial Number: 9



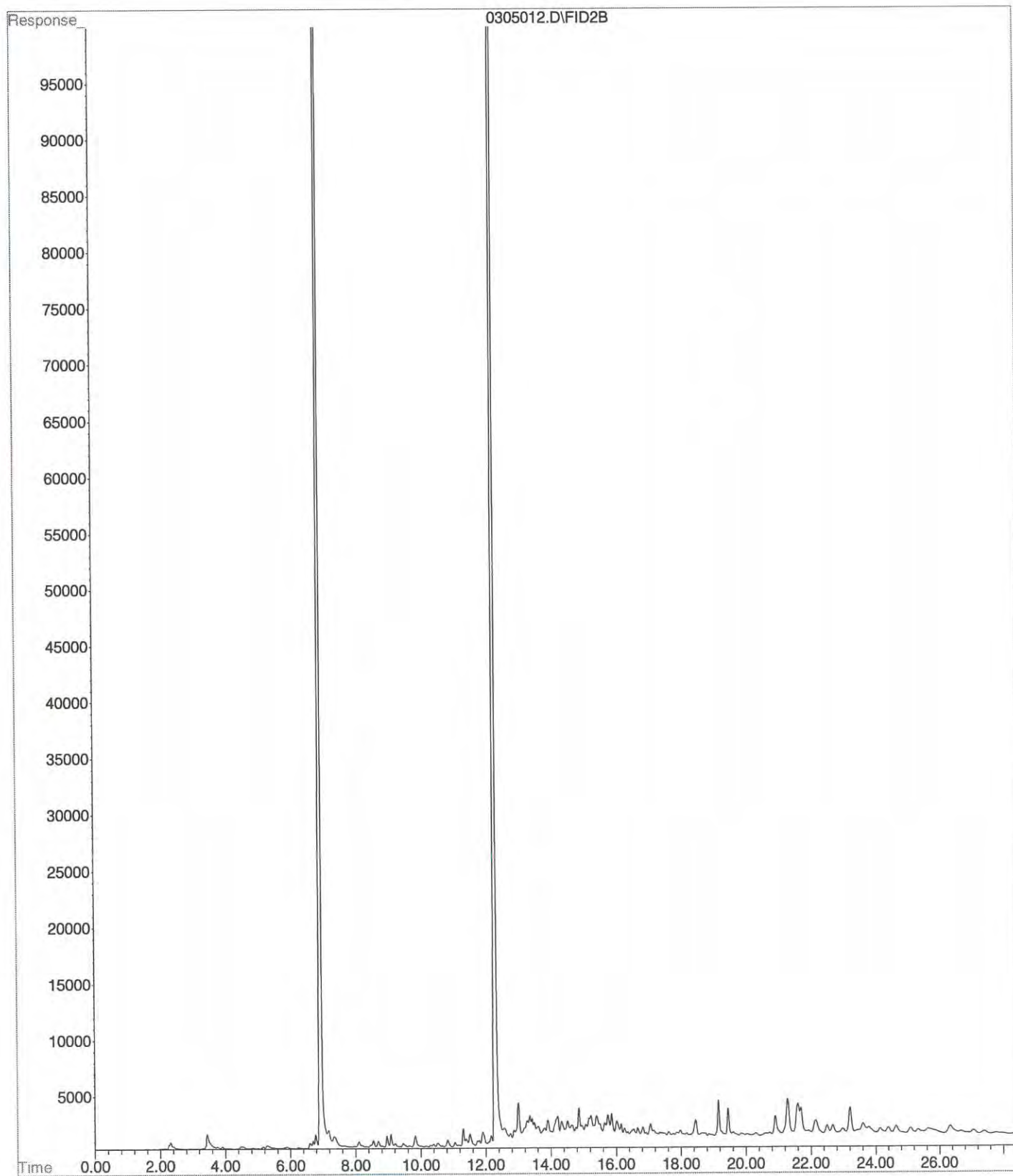
File : X:\BTEX\DARYL\DATA\D150305\0305010.D
Operator :
Acquired : 5 Mar 2015 17:30 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-07s
Misc Info : V2-36-17
Vial Number: 10



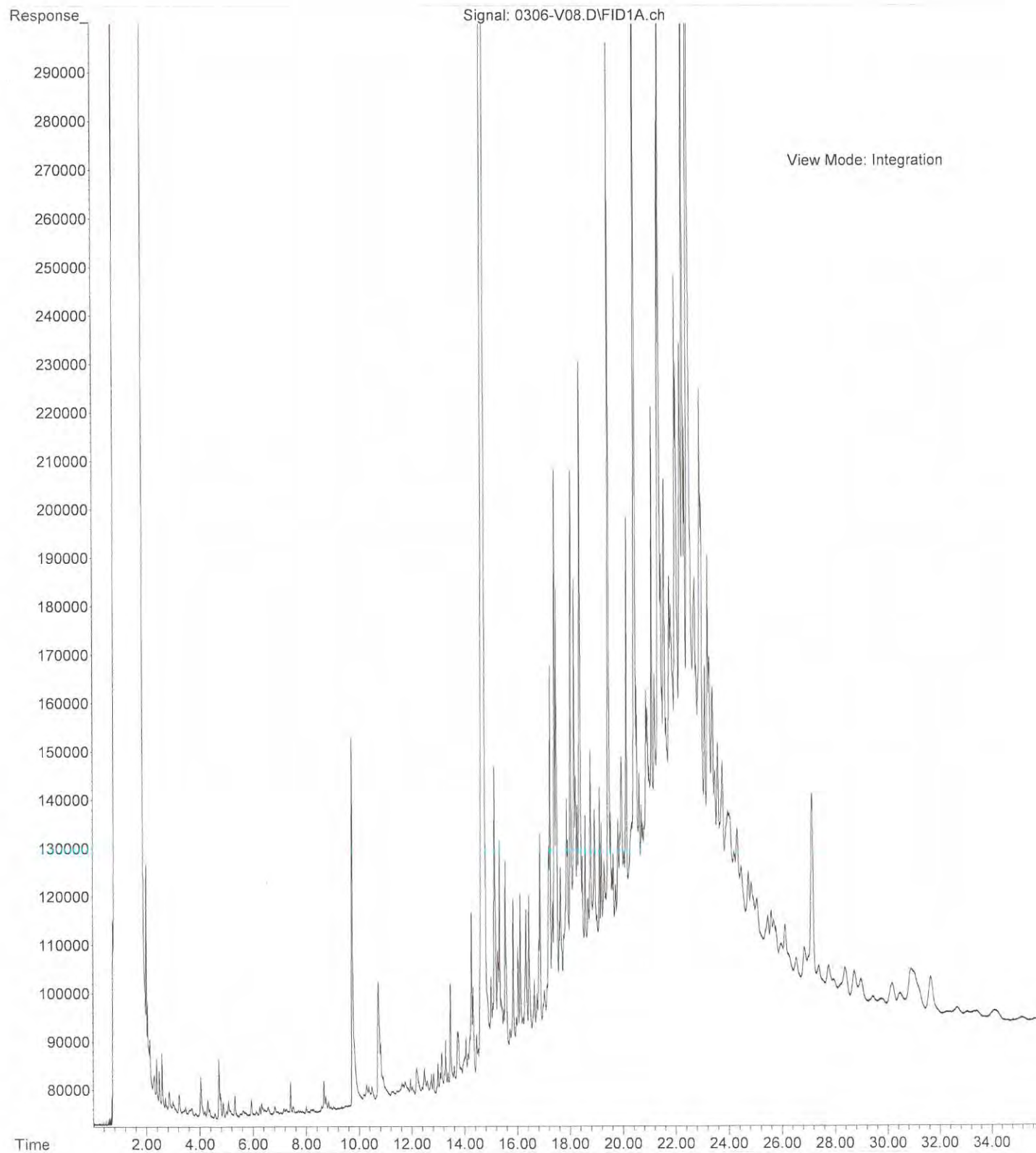
File : X:\BTEX\DARYL\DATA\D150305\0305011.D
Operator :
Acquired : 5 Mar 2015 18:03 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-09s
Misc Info : V2-36-17
Vial Number: 11



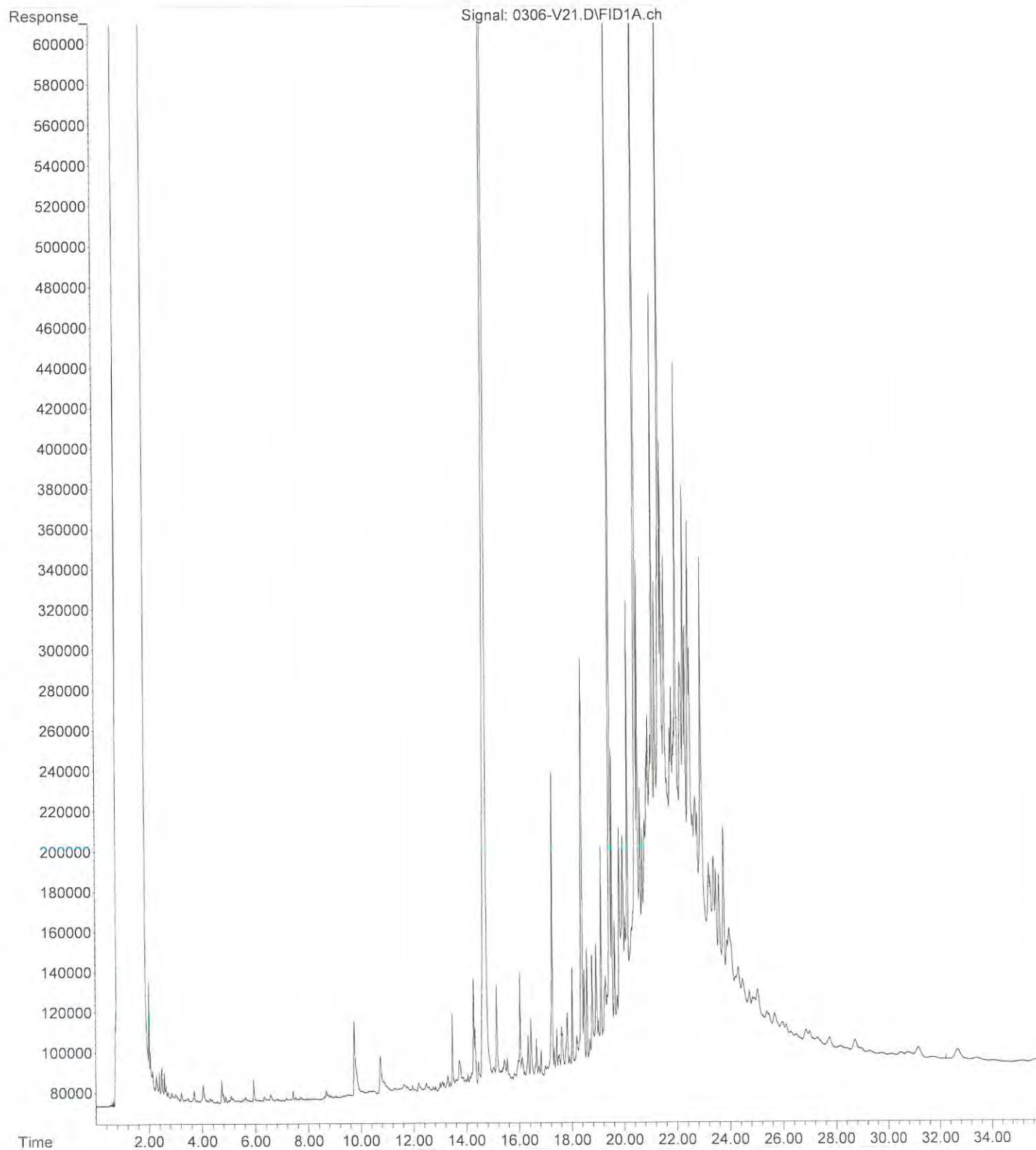
File : X:\BTEX\DARYL\DATA\D150305\0305012.D
Operator :
Acquired : 5 Mar 2015 18:37 using AcqMethod 150122B.M
Instrument : Daryl
Sample Name: 02-257-12s
Misc Info : V2-36-17
Vial Number: 12



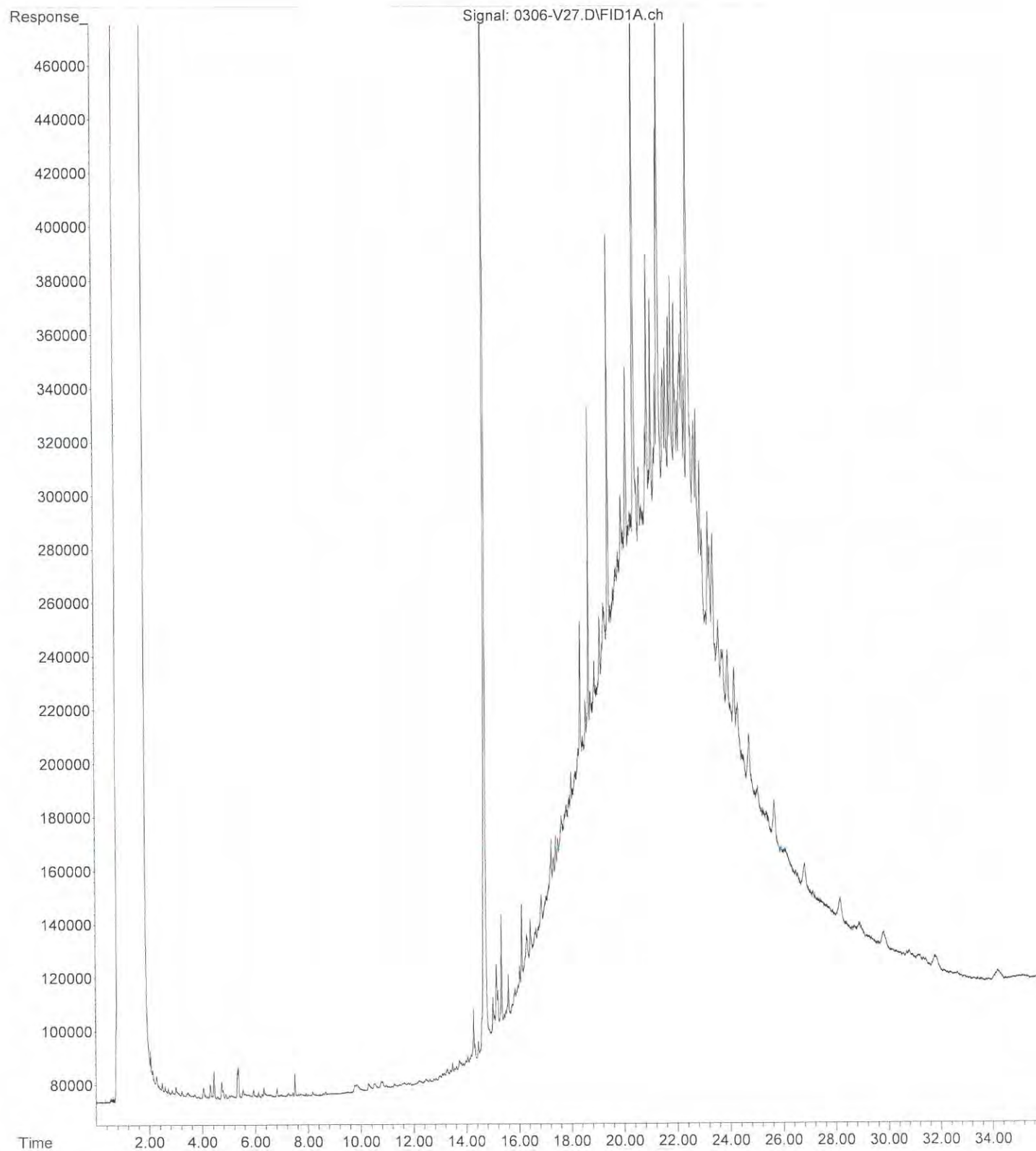
File : C:\msdchem\2\DATA\V150306\0306-V08.D
Operator :
Acquired : 6 Mar 2015 16:14 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-01
Misc Info :
Vial Number: 8



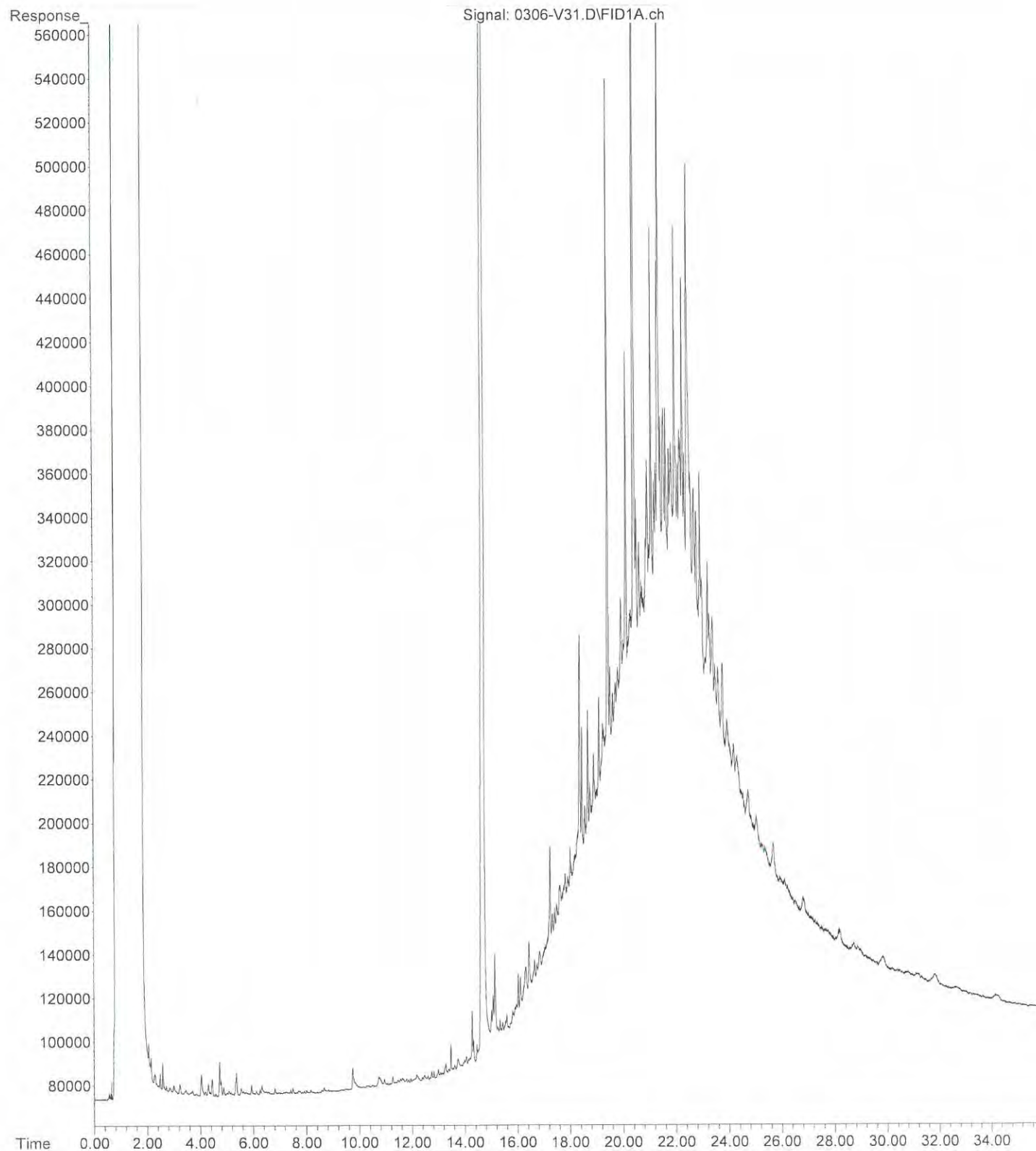
File : C:\msdchem\2\DATA\V150306\0306-V21.D
Operator :
Acquired : 7 Mar 2015 00:55 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-04
Misc Info :
Vial Number: 21



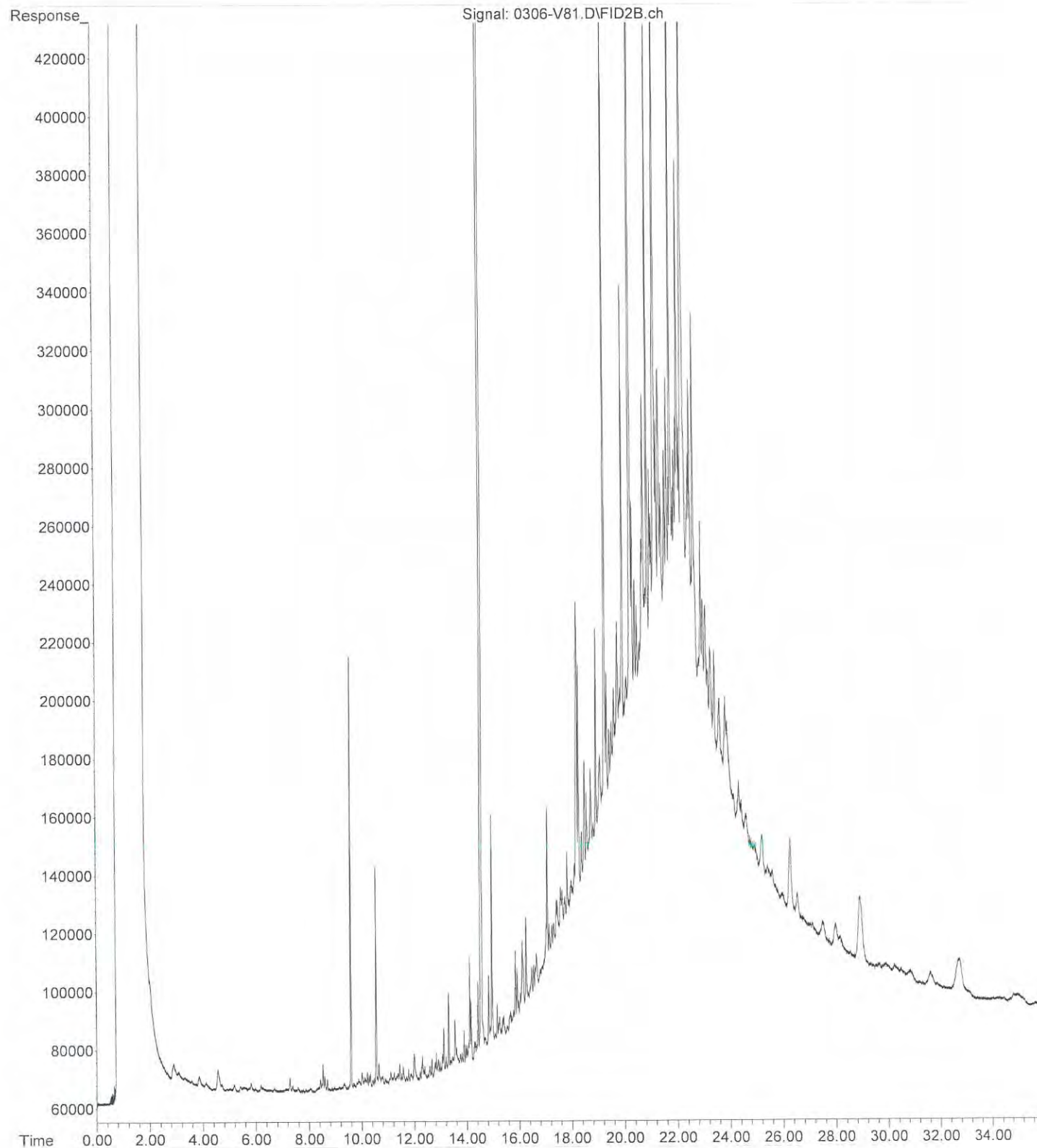
File :C:\msdchem\2\DATA\V150306\0306-V27.D
Operator :
Acquired : 7 Mar 2015 4:58 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-05 5X
Misc Info :
Vial Number: 27



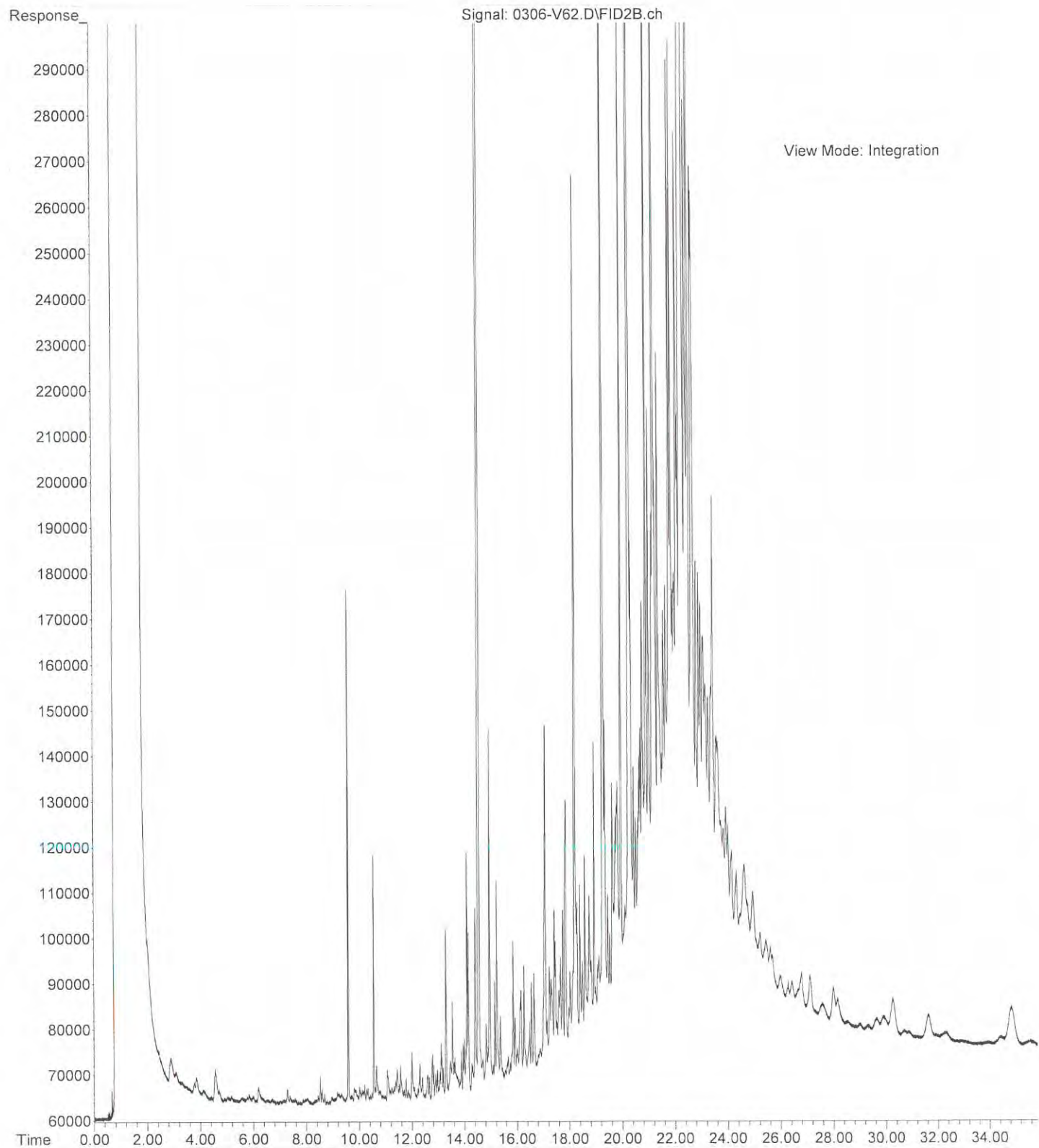
File :C:\msdchem\2\DATA\V150306\0306-V31.D
Operator :
Acquired : 7 Mar 2015 7:40 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-06
Misc Info :
Vial Number: 31



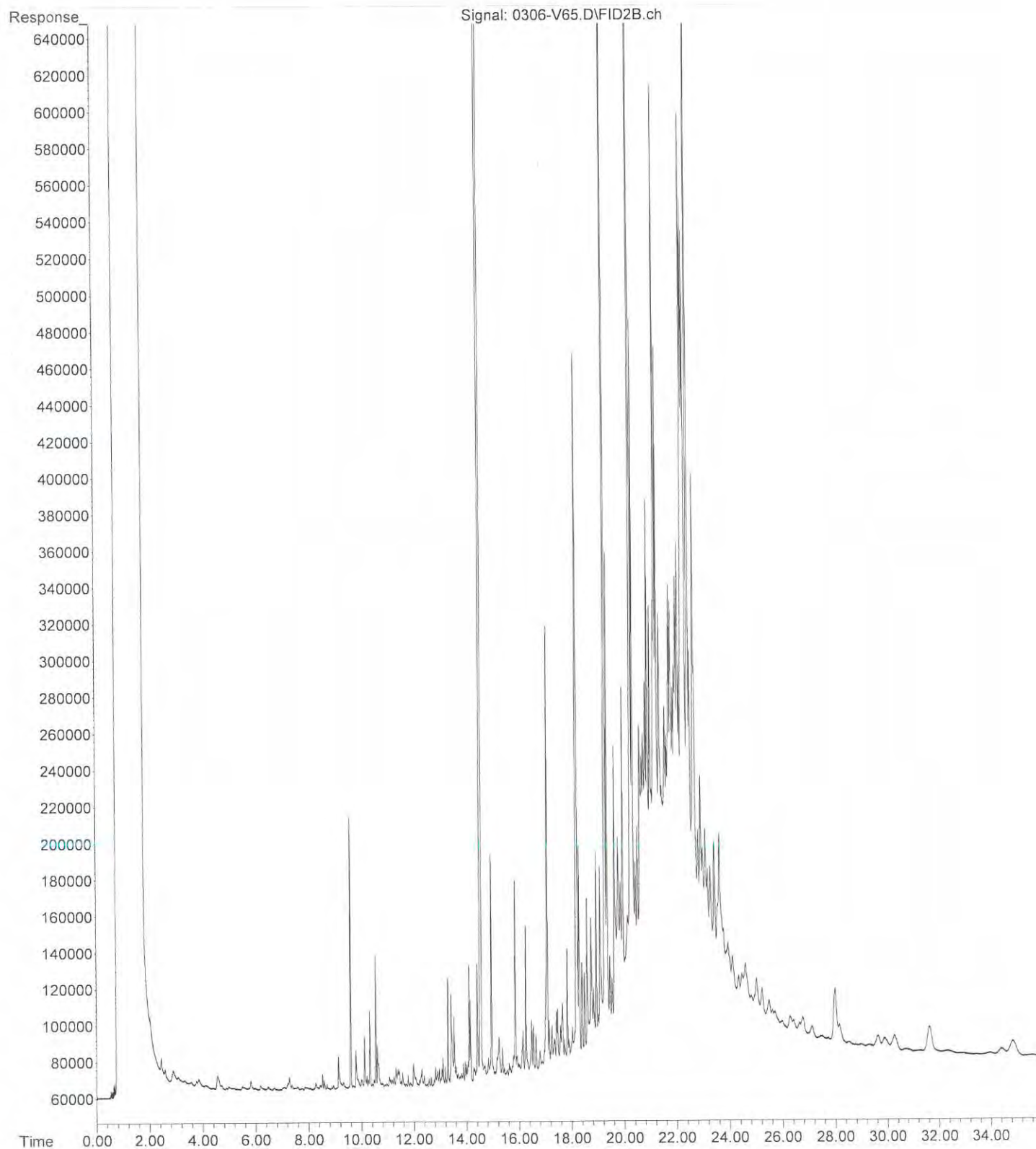
File :C:\msdchem\2\DATA\V150306.SEC\0306-V81.D
Operator :
Acquired : 7 Mar 2015 7:40 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 02-257-07
Misc Info :
Vial Number: 81



File : C:\msdchem\2\DATA\V150306.SEC\0306-V62.D
Operator :
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





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

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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-MW2-16.5-17						
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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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-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	

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

VOLATILES EPA 8260C
 page 2 of 2

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

VOLATILES EPA 8260C
 page 1 of 2

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	

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

VOLATILES EPA 8260C
 page 2 of 2

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
 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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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

VOLATILES EPA 8260C
 page 1 of 2

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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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:	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	

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

VOLATILES EPA 8260C
 page 2 of 2

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

VOLATILES EPA 8260C
 page 1 of 2

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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>109</i>	<i>79-126</i>				

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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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

VOLATILES EPA 8260C
 page 1 of 2

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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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:		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	

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

VOLATILES EPA 8260C
 page 2 of 2

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>				

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-MW2-2.5-3						
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	
<i>Surrogate: Percent Recovery 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	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	83	32 - 114				
Pyrene-d10	85	33 - 121				
Terphenyl-d14	76	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-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
 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-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	
<i>Surrogate: Percent Recovery 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				

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-DP1-5-6				
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>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>77</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>82</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

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:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>81</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>93</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

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>82</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>79</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

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				

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-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:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>83</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>85</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>86</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

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:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>86</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>98</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

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			

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-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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>80</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

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: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	83	32 - 114				
Pyrene-d10	80	33 - 121				
Terphenyl-d14	94	31 - 116				

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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
<hr/>						
Lab ID:	03-001-01					
Client ID:	DWR2-MW2-2.5-3					
<hr/>						
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
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-06					
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	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-11					
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	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-13					
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	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-15					
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	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-17					
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	

Date of Report: March 11, 2015
 Samples Submitted: March 2, 2015
 Laboratory Reference: 1503-001
 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:	03-001-19					
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	

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

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

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
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	

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

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>79-126</i>				

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

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

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

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				

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
					Recovery					
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	RPD	RPD	Flags
					Recovery	Limits	Limits		Limit	
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
<i>Surrogate:</i>								
2-Fluorobiphenyl						83 87	32 - 114	
Pyrene-d10						78 82	33 - 121	
Terphenyl-d14						89 100	31 - 116	

Date of Report: March 11, 2015
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
Laboratory Reference: 1503-001
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



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 2

03-001

Company: <u>Geosciences</u>				Turnaround Request (in working days)				Laboratory Number:																											
Project Number: <u>4082-041-01</u>				<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day																															
Project Name: <u>Sound Transit Rail & RIOC</u>				<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days																															
Project Manager: <u>Paul Wahl</u>				<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)																															
Sampled by: <u>Brian M. Bhatkew</u>				<input type="checkbox"/> (other)																															
Lab ID				Sample Identification				Date Sampled				Time Sampled				Matrix				Number of Containers															
1				DWEL-MW2-2.5-3				2/28/15				1030				501C				6				X											
2				DWEL-MW2-5-5.5								1035								4				X											
3				DWEL-MW2-10-11.5								1040								6				X											
4				DWEL-MW2-15-15.5								1045								6				X											
5				DWEL-MW2-16.5-17								1055								6				X											
6				DWEL-MW1-5-5.5								1455								6				X											
7				DWEL-MW1-10-10.5								1505								6				X											
8				DWEL-MW1-15-15.5								1515								6				X											
9				DWEL-MW1-18.5-20								1530								6				X											
10				DWEL-MW1-23.5-25								1545								6				X											
Relinquished				Signature <u>[Signature]</u>				Company <u>Geosciences</u>				Date <u>3/2/15</u>				Time <u>0730</u>				Comments/Special Instructions															
Received																																			
Relinquished																																			
Received																																			
Relinquished																																			
Received																																			
Relinquished																																			
Reviewed/Date																								Chromatograms with final report <input type="checkbox"/>											



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 2 of 2

Turnaround Request
(in working days)

Laboratory Number:

03-001

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

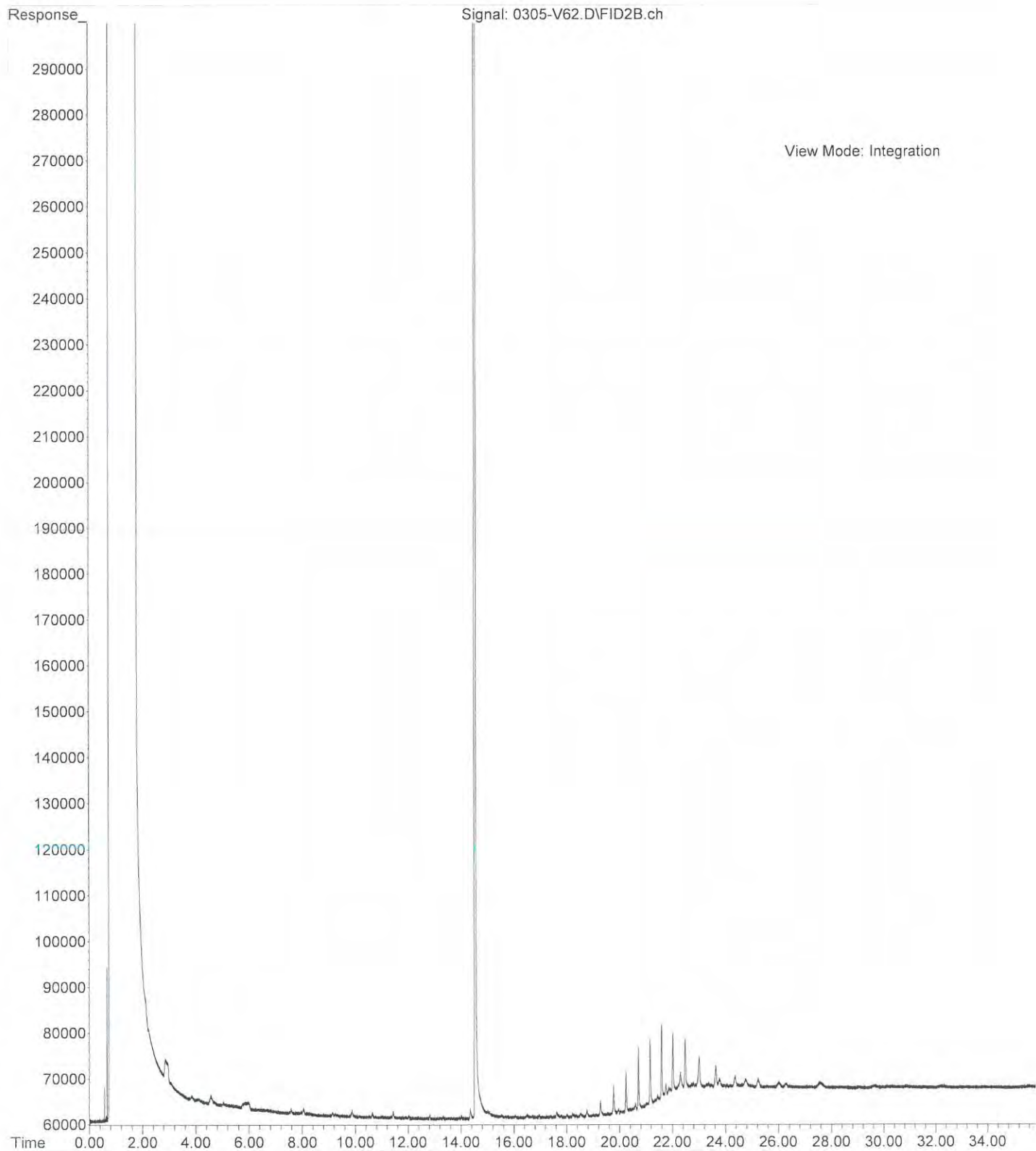
☐ _____
(other)

Company: Geosciences
Project Number: 4052-044-01
Project Name: SOUTH PASTOR PACE BRIDGE
Project Manager: PAUL WALSH
Sampled by: RYAN DOHerty

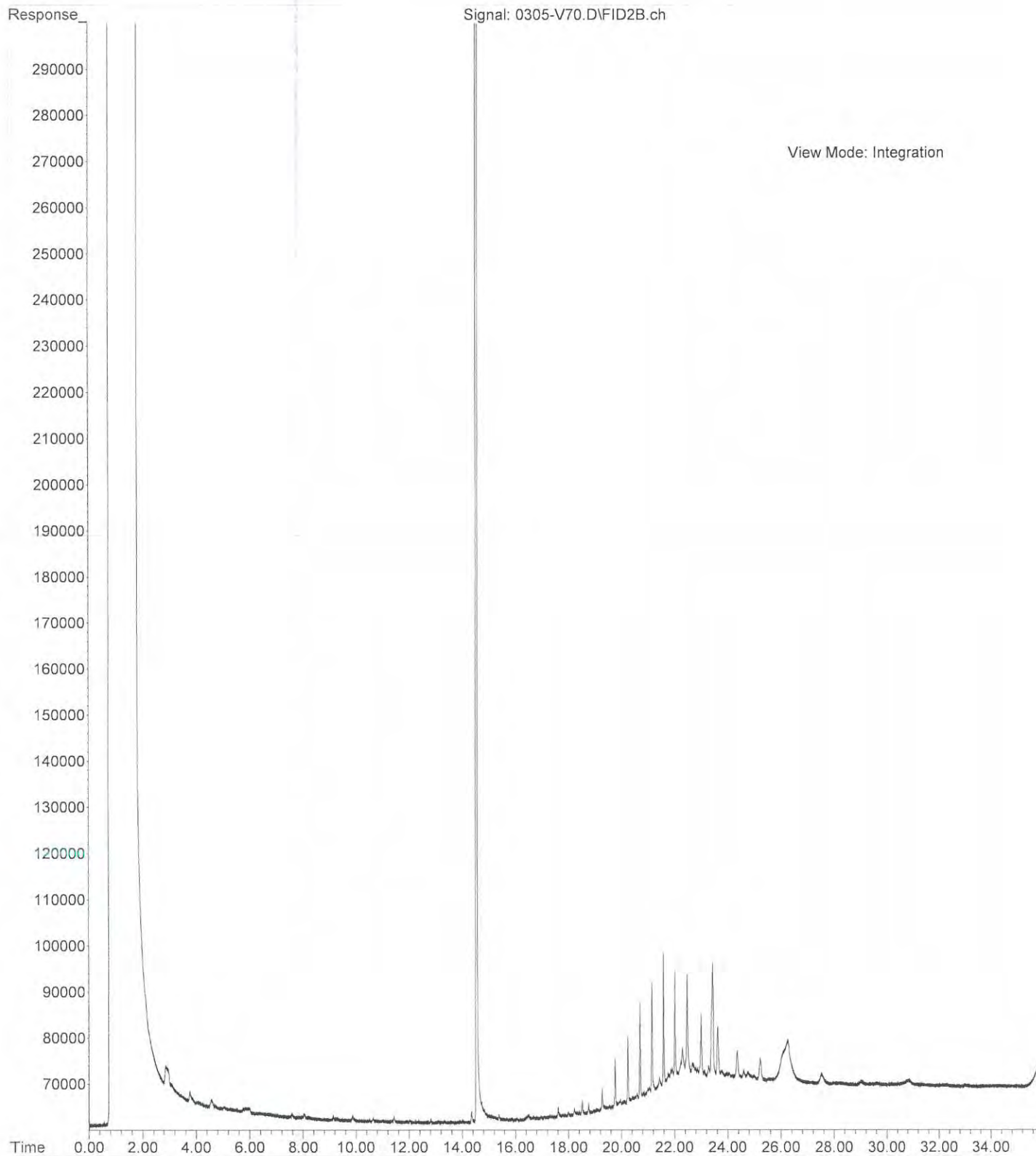
Lab ID Sample Identification
11 4C111-0P1-2-3
12 4C111-0P1-5-6
13 4C111-0P2-2-3
14 4C111-0P2-4.5-5.5
15 4C111-0P3-2-3
16 4C111-0P3-4.5-5.5
17 4C111-0P4-2-3
18 4C111-0P4-4-5
19 4C111-0P5-2-3
20 4C111-0P5-5-6

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	

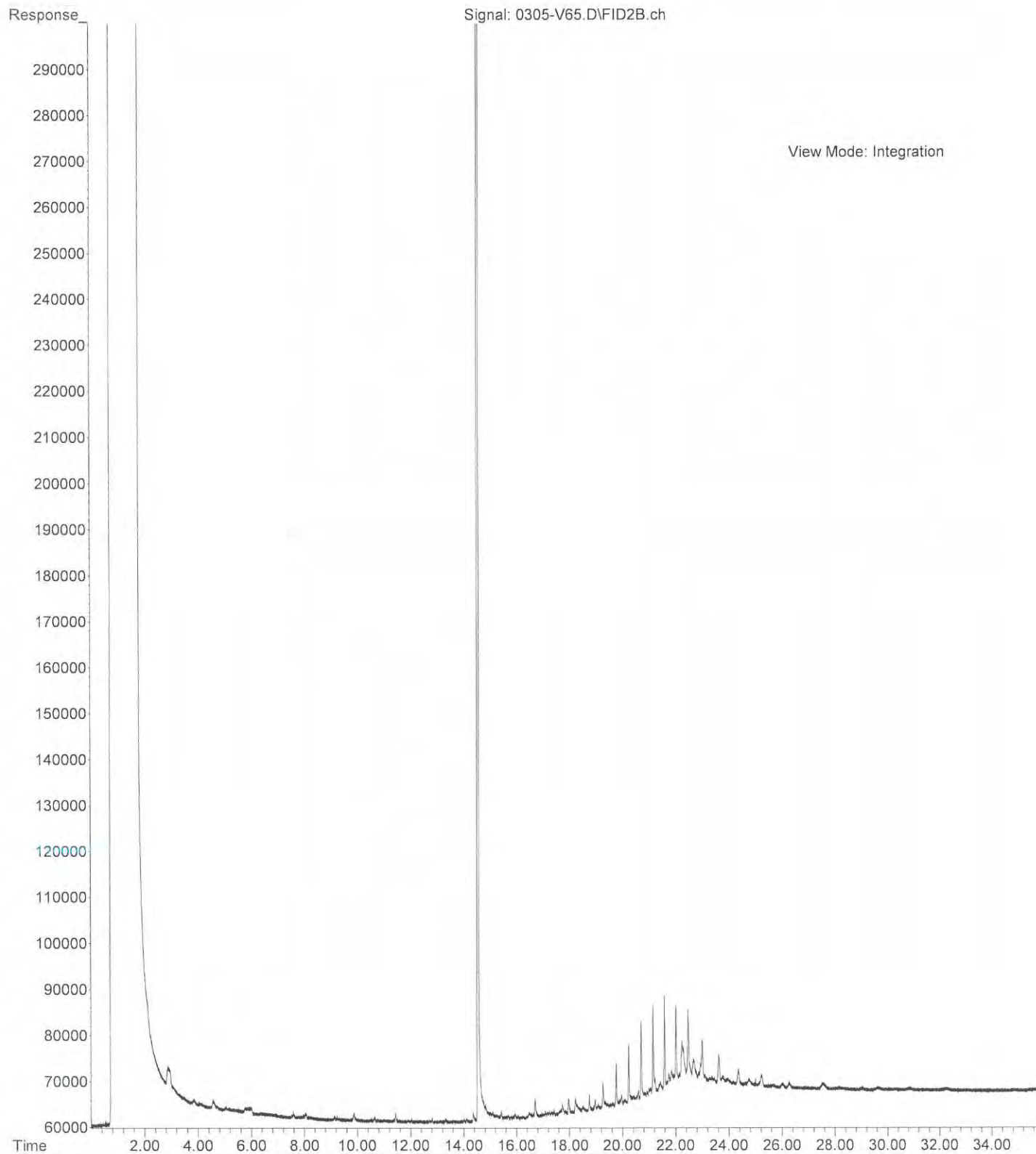
File :C:\msdchem\2\DATA\V150305.SEC\0305-V62.D
Operator :
Acquired : 5 Mar 2015 17:44 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-05
Misc Info :
Vial Number: 62



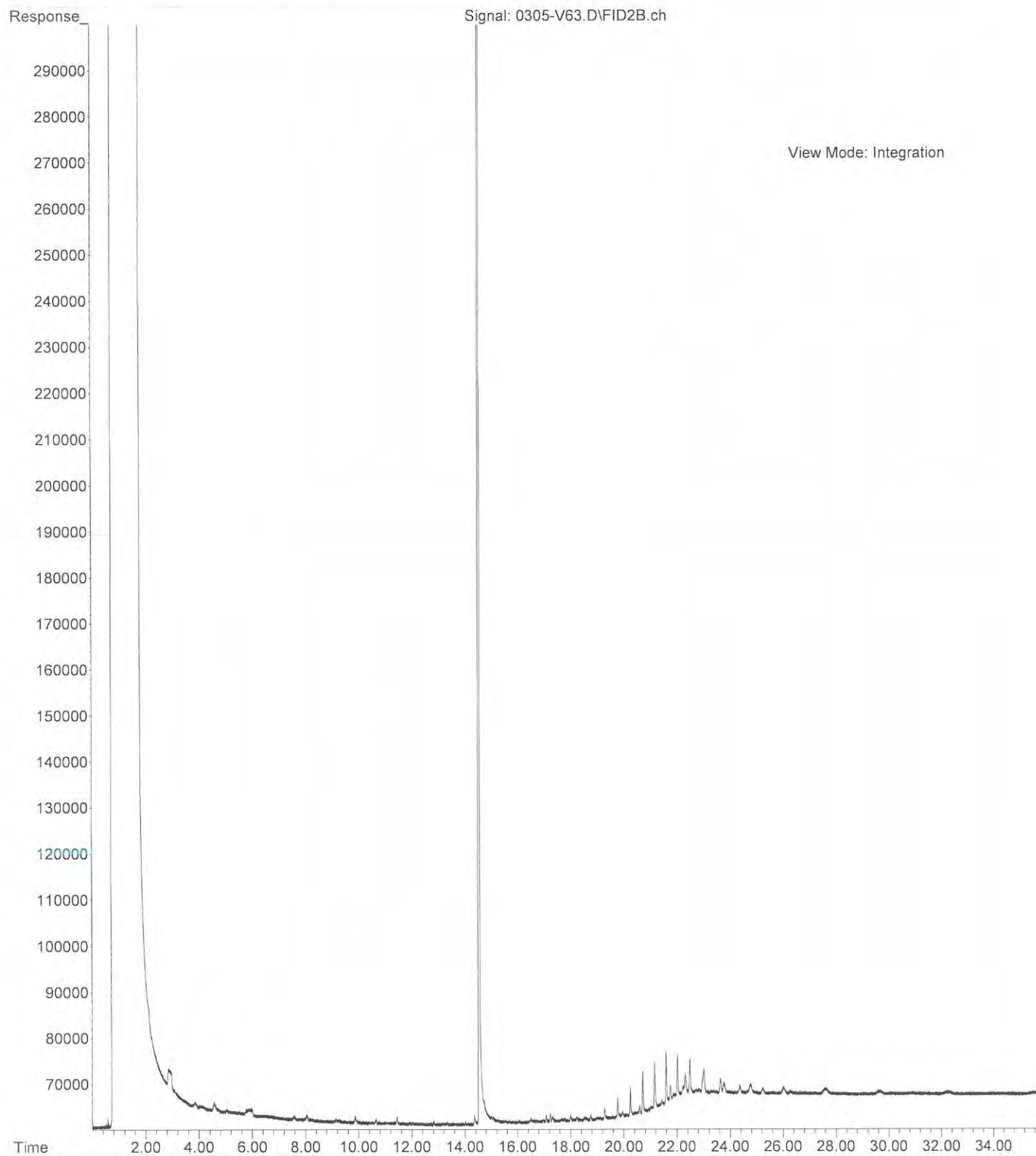
File :C:\msdchem\2\DATA\V150305.SEC\0305-V70.D
Operator :
Acquired : 5 Mar 2015 23:08 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-06
Misc Info :
Vial Number: 70



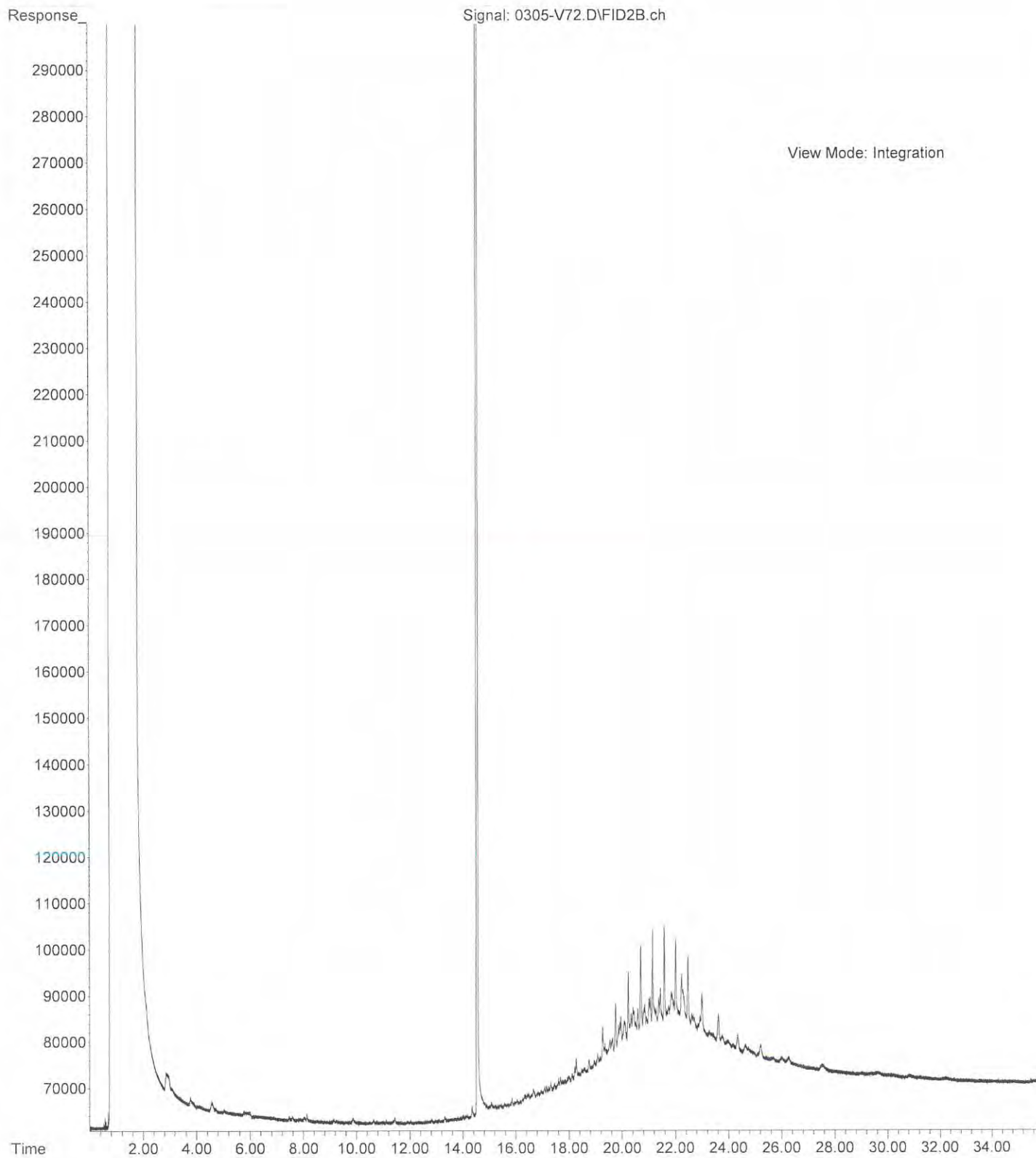
File :C:\msdchem\2\DATA\V150305.SEC\0305-V65.D
Operator :
Acquired : 5 Mar 2015 19:46 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-09
Misc Info :
Vial Number: 65



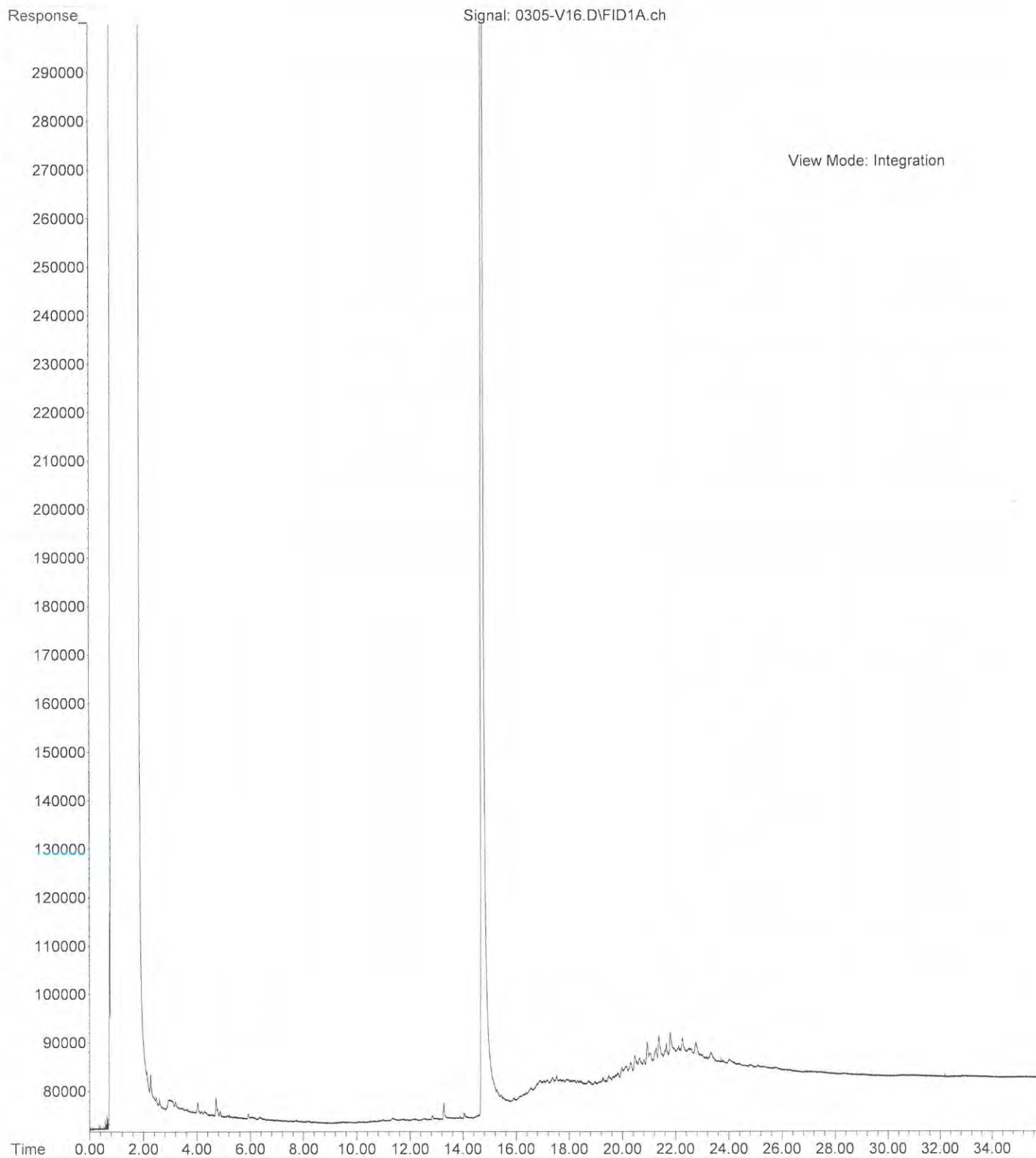
File :C:\msdchem\2\DATA\V150305.SEC\0305-V63.D
Operator :
Acquired : 5 Mar 2015 18:25 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-11
Misc Info :
Vial Number: 63



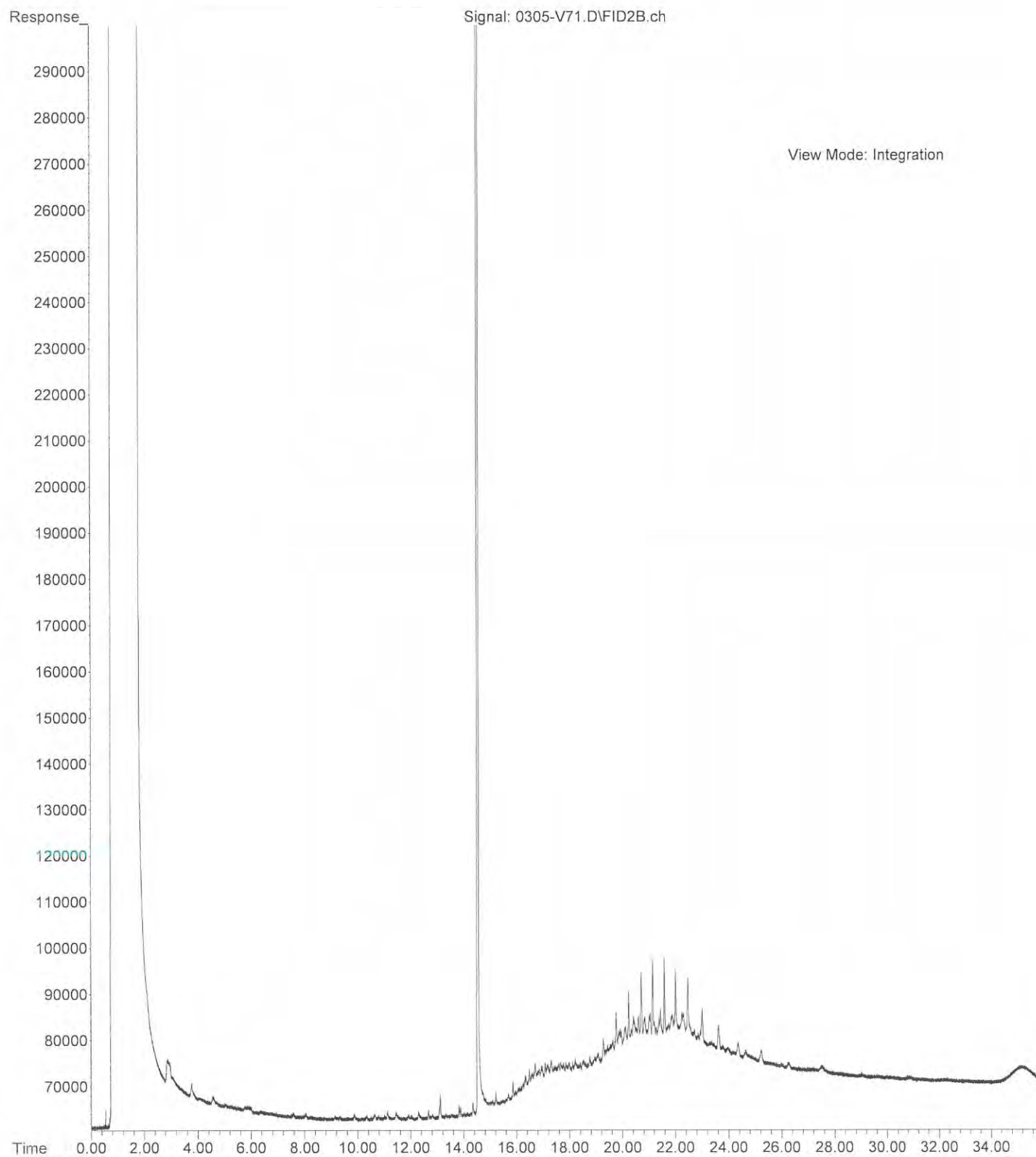
File :C:\msdchem\2\DATA\V150305.SEC\0305-V72.D
Operator :
Acquired : 6 Mar 2015 00:30 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-12
Misc Info :
Vial Number: 72



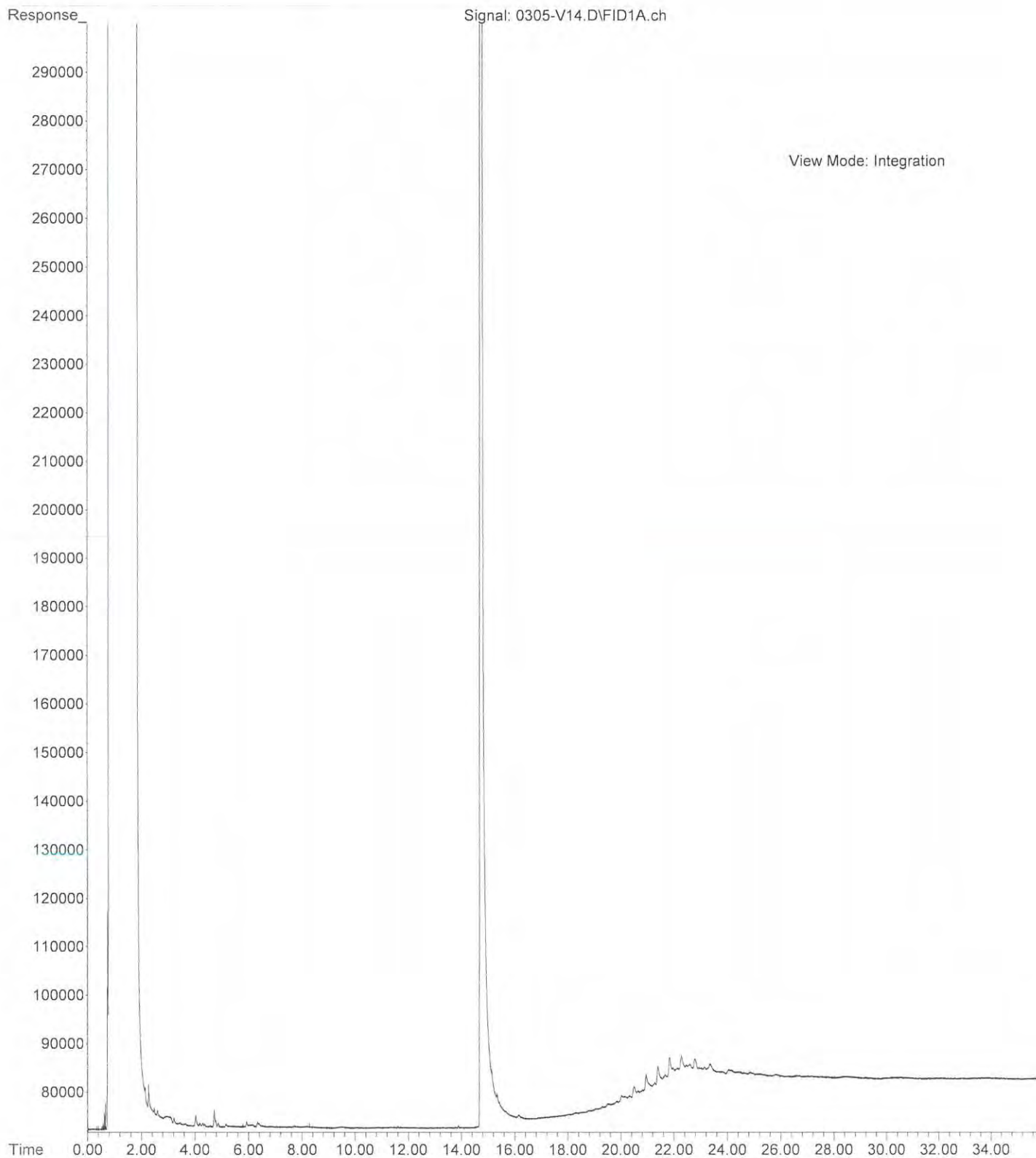
File :C:\msdchem\2\DATA\V150305\0305-V16.D
Operator :
Acquired : 5 Mar 2015 20:26 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-13
Misc Info :
Vial Number: 16



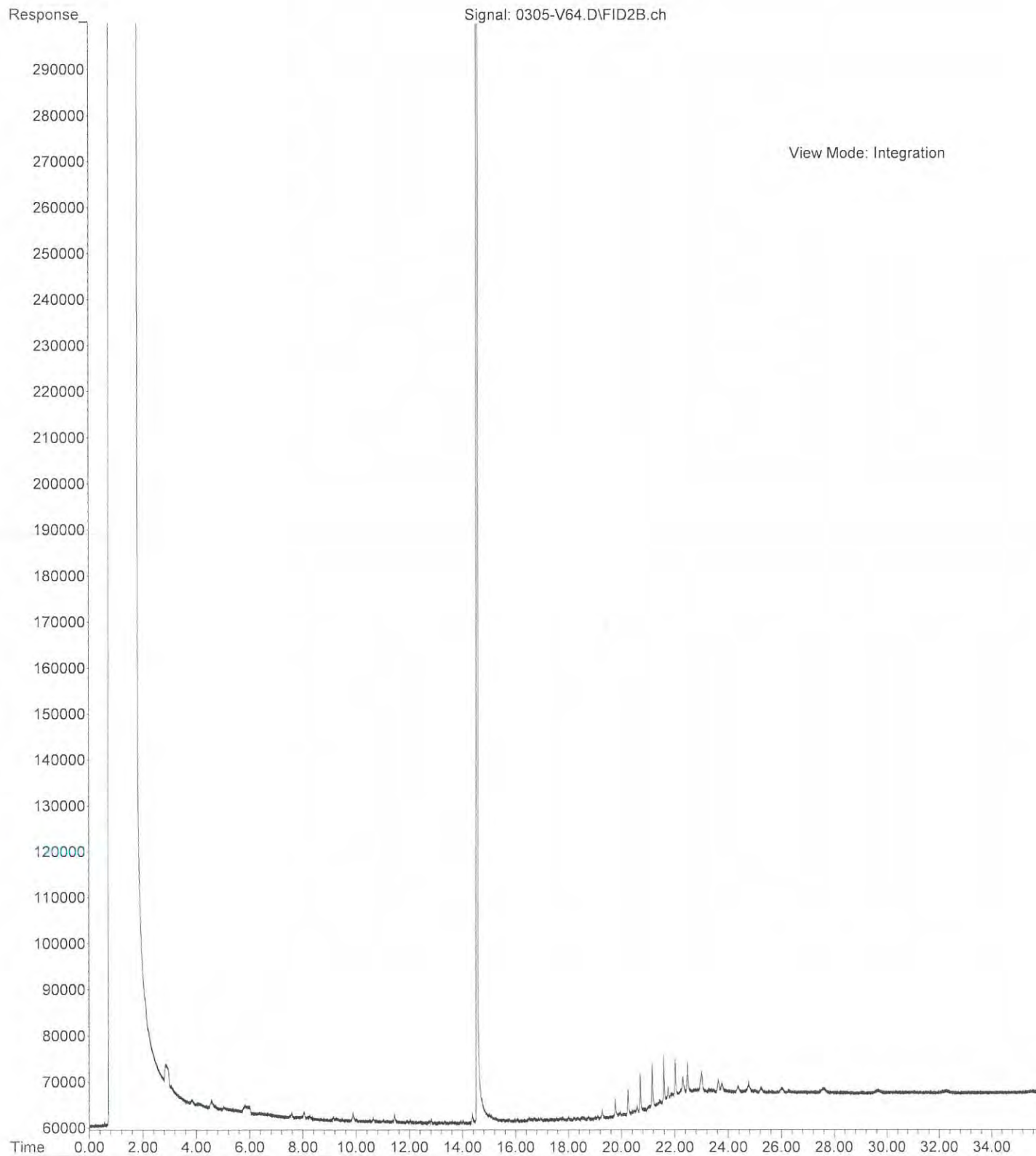
File : C:\msdchem\2\DATA\V150305.SEC\0305-V71.D
Operator :
Acquired : 5 Mar 2015 23:48 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-14
Misc Info :
Vial Number: 71



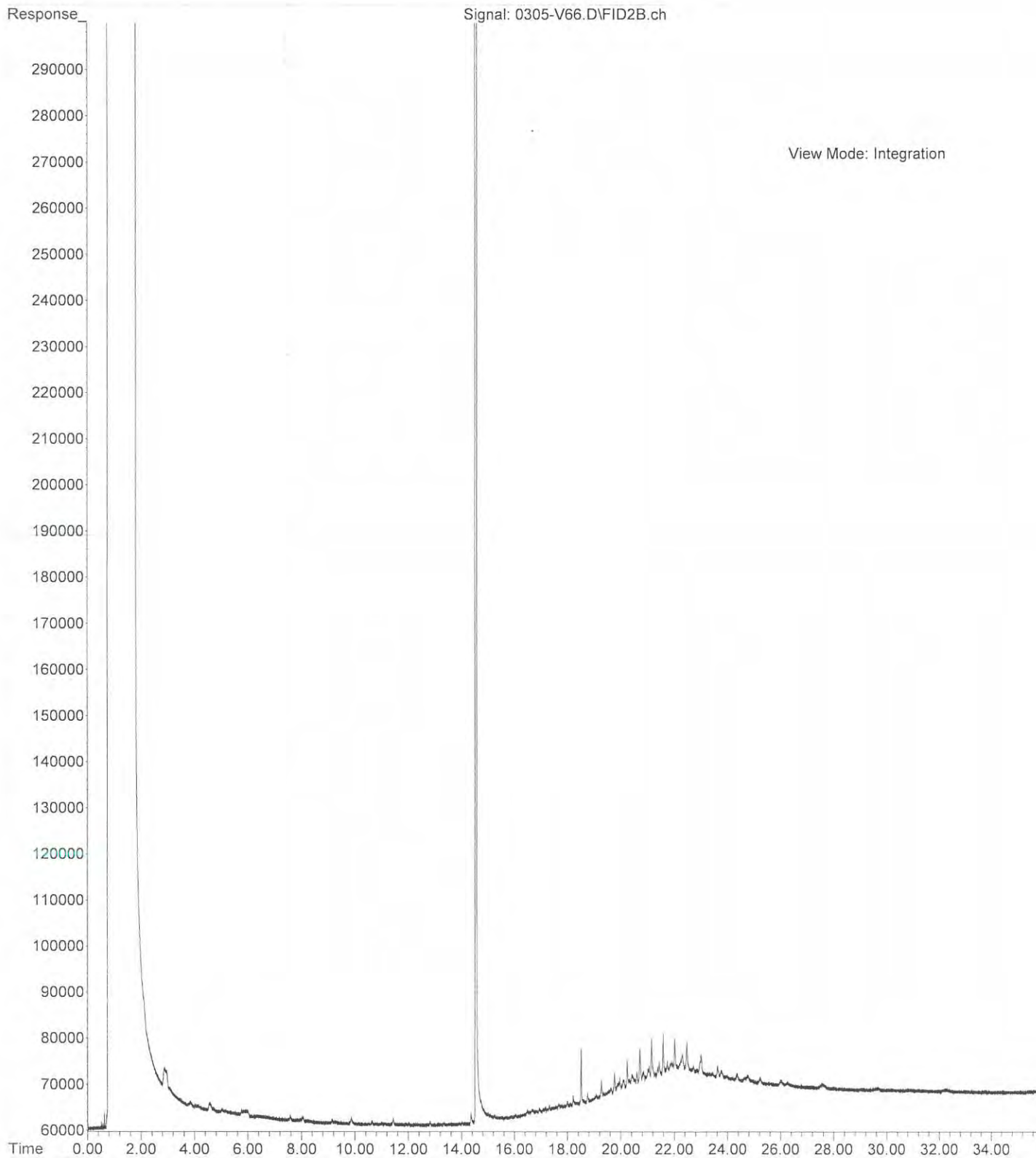
File :C:\msdchem\2\DATA\V150305\0305-V14.D
Operator :
Acquired : 5 Mar 2015 19:06 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-15
Misc Info :
Vial Number: 14



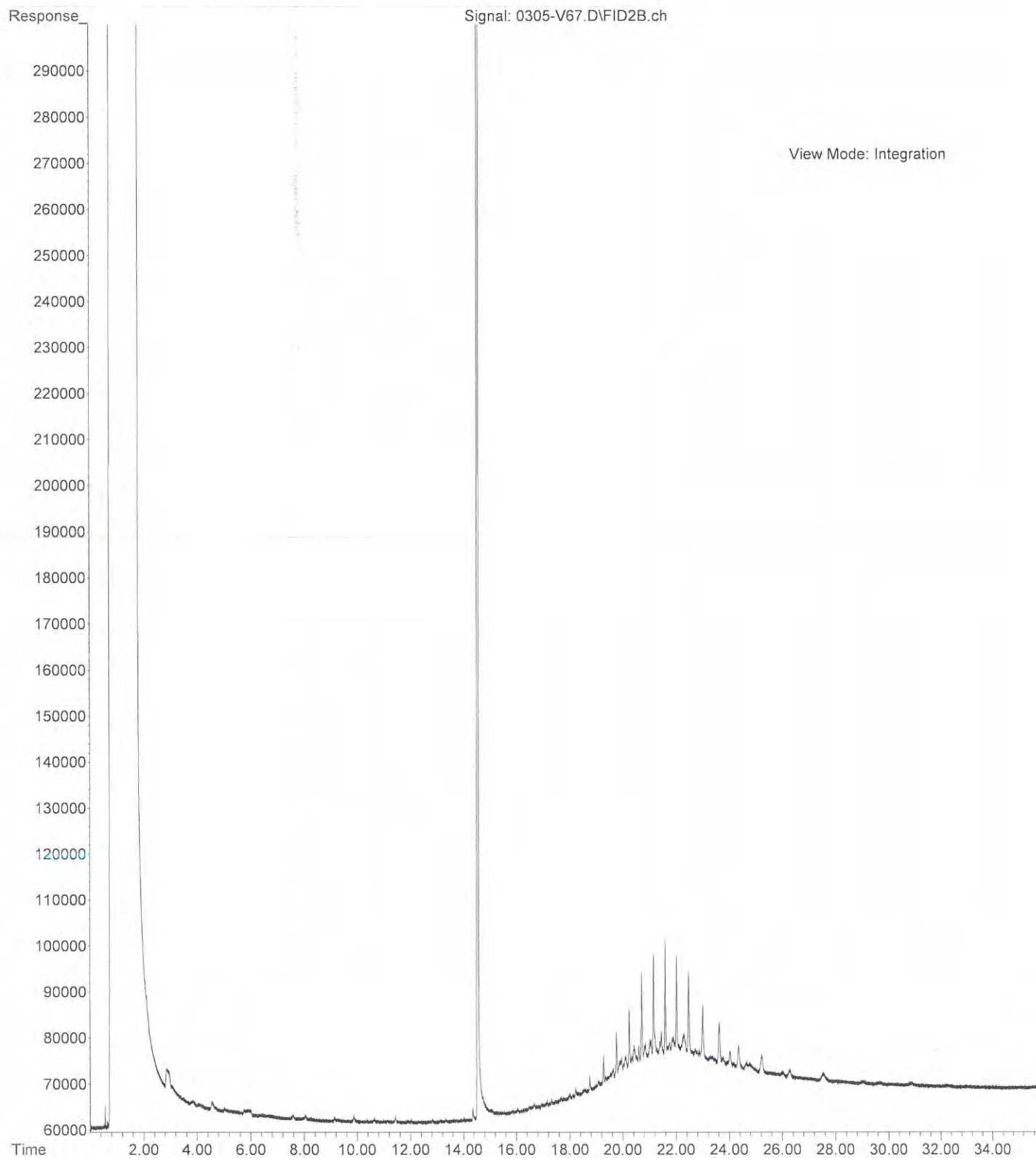
File :C:\msdchem\2\DATA\V150305.SEC\0305-V64.D
Operator :
Acquired : 5 Mar 2015 19:06 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-16
Misc Info :
Vial Number: 64



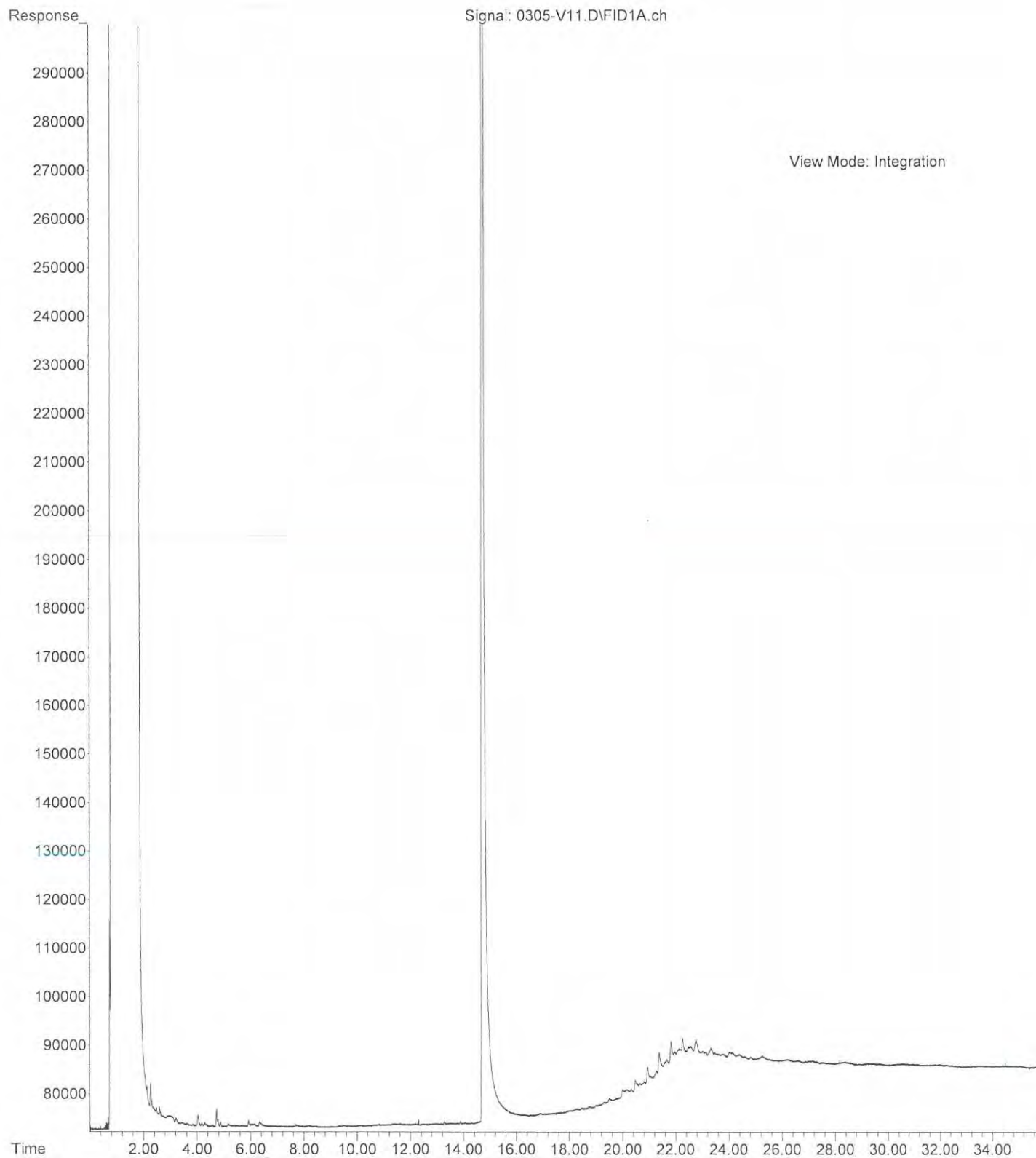
File :C:\msdchem\2\DATA\V150305.SEC\0305-V66.D
Operator :
Acquired : 5 Mar 2015 20:26 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-17
Misc Info :
Vial Number: 66



File :C:\msdchem\2\DATA\V150305.SEC\0305-V67.D
Operator :
Acquired : 5 Mar 2015 21:07 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-18
Misc Info :
Vial Number: 67



File :C:\msdchem\2\DATA\V150305\0305-V11.D
Operator :
Acquired : 5 Mar 2015 17:04 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-19
Misc Info :
Vial Number: 11



File :C:\msdchem\2\DATA\V150305\0305-V12.D
Operator :
Acquired : 5 Mar 2015 17:44 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-001-20
Misc Info :
Vial Number: 12





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

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.

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
<hr/>						
Lab ID:	03-056-01					
Client ID:	DWR2-MW1					
<hr/>						
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					
<hr/>						
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
Project: 4082-044-01

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>	<i>77</i>	<i>50-150</i>				

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				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...

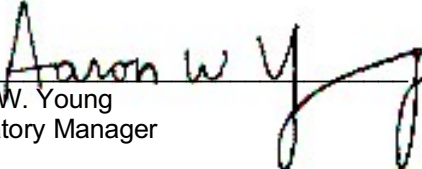
PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dimethylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Di-n-butylphthalate	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobenzene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorobutadiene	< 2	ug/l		1.9	EPA 625	NLN	03/10/15
Hexachlorocyclopentadiene	< 2	ug/l		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 eth	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



Laboratory Reference #:

0-059

Turnaround Request:

1 Day

2 Day

3 Day

email: dbaumeister@onsite-envy.com
Project Number: 4082-044-01

Others:

Project Name:

Date/Time:

Page 1 of 1

156

meister

@onsite-env.com

044-01

[illegible]



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

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 $^{\circ}\text{C}$	Condition
Cooler	3.5	Good
Sample	3.4	Good



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

Subcontract Laboratory: ECNOMI

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: 10000110

Project Name: _____

Page 1 of 1

8 of 8

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analysis
	DUK2-MW1	3/6/15	1308	W	1	CLOSED W/ FLASHPOINT ASTM D-93 <i>Amec</i>
	DUK2-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 fai	freeworth	3/9/15	1345		
Relinquished by:						
Received by:						
Relinquished by:						
Received by:						
Relinquished by:						





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 "L" shape.

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	69	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	69	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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-DP11-12-13						
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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</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 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-DP11-22-23				
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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>105</i>	<i>79-126</i>				

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-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

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C

page 2 of 2

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	
<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 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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>101</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>102</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>99</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>79-126</i>				

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-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
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>102</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<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>107</i>	<i>79-126</i>				

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-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	

Date of Report: March 26, 2015
 Samples Submitted: March 9, 2015
 Laboratory Reference: 1503-061
 Project: 4082-044-01

VOLATILES EPA 8260C
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>79-126</i>				

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	67	32 - 114				
<i>Pyrene-d10</i>	66	33 - 121				
<i>Terphenyl-d14</i>	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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>87</i>	<i>31 - 116</i>				

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-DP11-22-23						
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	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	71	32 - 114				
Pyrene-d10	74	33 - 121				
Terphenyl-d14	90	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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		68	32 - 114			
Pyrene-d10		66	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

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	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	63	32 - 114				
Pyrene-d10	68	33 - 121				
Terphenyl-d14	79	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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		78	32 - 114			
Pyrene-d10		77	33 - 121			
Terphenyl-d14		98	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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		71	32 - 114			
Pyrene-d10		69	33 - 121			
Terphenyl-d14		88	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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
2-Fluorobiphenyl		71	32 - 114			
Pyrene-d10		71	33 - 121			
Terphenyl-d14		94	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-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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>89</i>	<i>31 - 116</i>				

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-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	
<i>Surrogate: Percent Recovery Control Limits</i>						
2-Fluorobiphenyl	59	32 - 114				
Pyrene-d10	70	33 - 121				
Terphenyl-d14	78	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-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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>96</i>	<i>31 - 116</i>				

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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>2-Fluorobiphenyl</i>		65	32 - 114			
<i>Pyrene-d10</i>		68	33 - 121			
<i>Terphenyl-d14</i>		92	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-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	
<i>Surrogate:</i>						
	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	72	32 - 114				
Pyrene-d10	73	33 - 121				
Terphenyl-d14	92	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-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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>78</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>100</i>	<i>31 - 116</i>				

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-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	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>2-Fluorobiphenyl</i>		71	32 - 114			
<i>Pyrene-d10</i>		70	33 - 121			
<i>Terphenyl-d14</i>		95	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-DP11-23-24						
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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>31 - 116</i>				

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-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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>31 - 116</i>				

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)

				Date	Date	
Analyte	Result	PQL	EPA Method	Prepared	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

<hr/>						
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	

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:	03-061-04					
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	

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:	03-061-08					
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	

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:	03-061-10					
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	

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:	03-061-12					
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	

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:	03-061-15					
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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	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
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
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	

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
 page 2 of 2

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>79-126</i>				

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
 page 1 of 2

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	

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
 page 2 of 2

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	
<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>107</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>79-126</i>				

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	RPD Limit	Flags
					Recovery				RPD	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	RPD	RPD	Flags
					Recovery	Limits	Limit			
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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>115</i>	<i>31 - 116</i>				

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	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>90</i>	<i>32 - 114</i>				
<i>Pyrene-d10</i>	<i>100</i>	<i>33 - 121</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>31 - 116</i>				

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
 Laboratory Reference: 1503-061
 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
 Laboratory Reference: 1503-061
 Project: 4082-044-01

% MOISTURE

Date Analyzed: 3-11&20-15

Client ID	Lab ID	% Moisture
EL111-DP11-2-3	03-061-01	10
EL111-DP11-12-13	03-061-03	9
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
EL111-DP9-8-9	03-061-17	16
EL111-DP12-2-3	03-061-18	7
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



MVA 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 2

4082

Company:
GeoEngineers

Project Number:
~~0052-041-01~~

Project Name:

SC111- BOUNCE PACE 2 PLOT

Project Manager:

PAUL CHALE

Sampled by:

BARNABE BARTISZLO

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____
(other)

Laboratory Number:

03-061

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

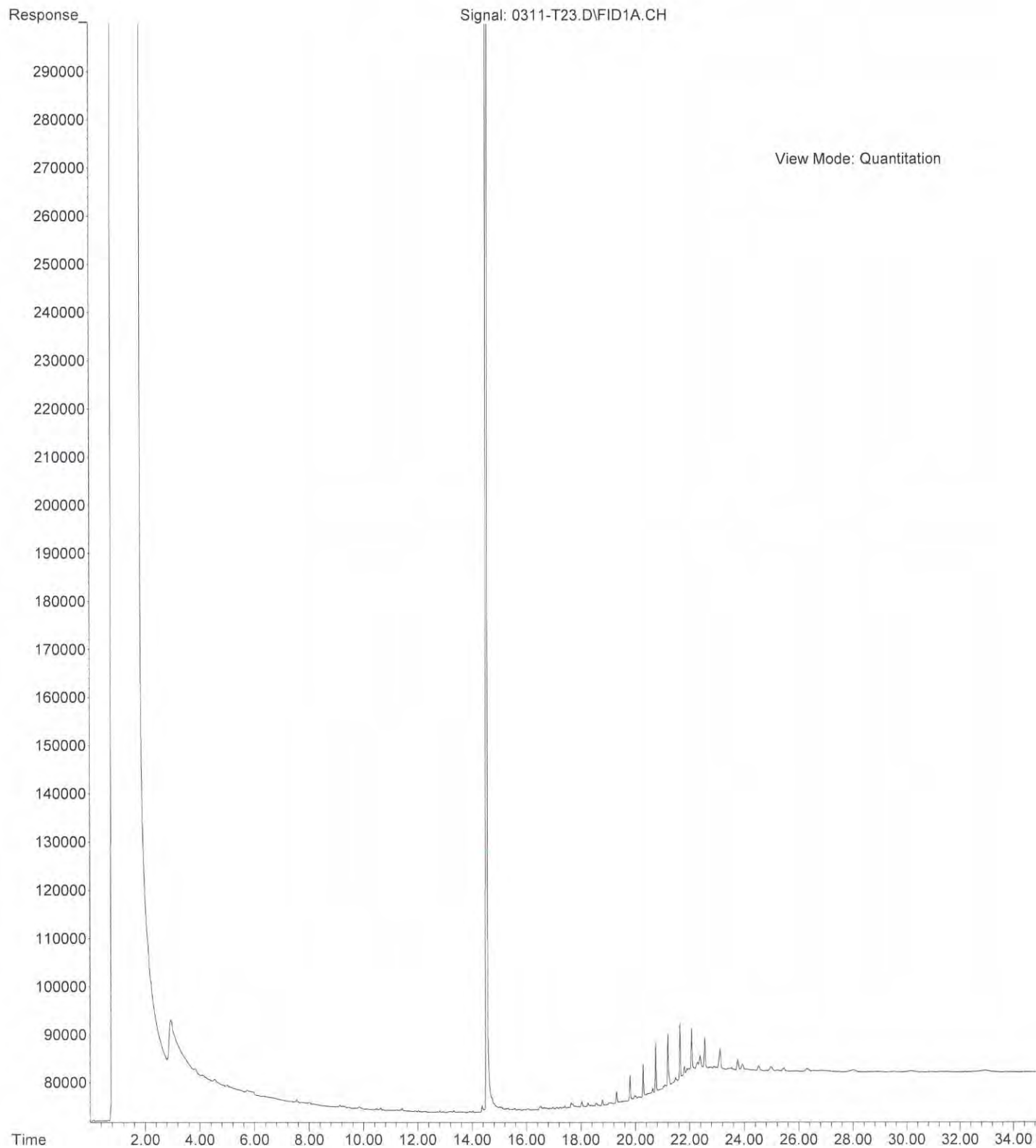
HEM (oil and grease) 1664A

ACID

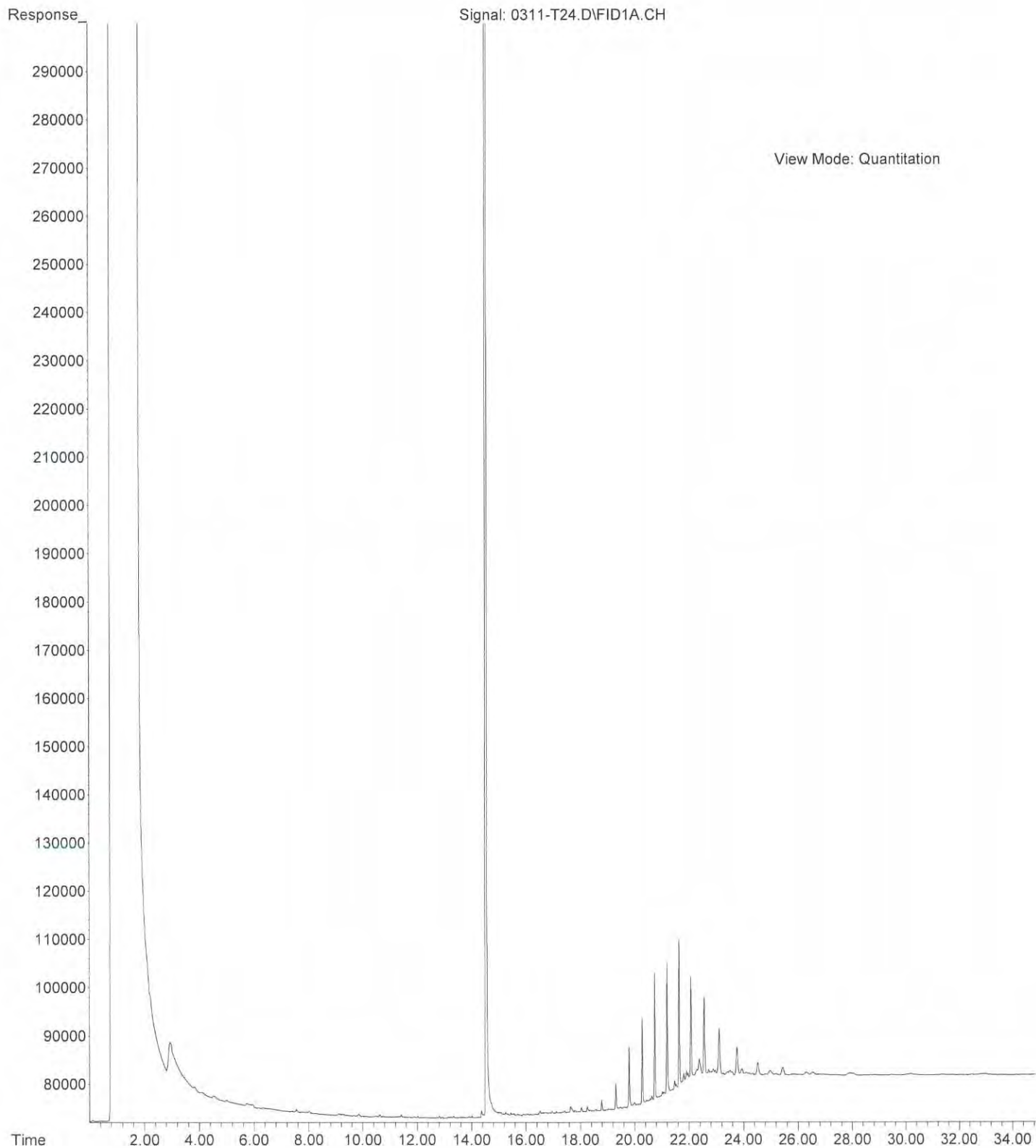
% Moisture

Company: GeoEngineers					<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day															
Project Number: 0002-041-01					<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days															
Project Name: SC111- BULKHEAD PACE 2 B102					<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)															
Project Manager: PAUL CHALE					<input type="checkbox"/> _____ (other)															
Sampled by: Bhamon Bhatkand																				
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers															
1	SC111-DR1-2-3	3/11/15	0745	SOIL	6	X														
2	SC111-DR11- 12 3-8		0805	SOIL	6															
3	SC111-DR11-12-13		0810	SOIL	6	X					X									
4	SC111-DR11-22-23		0815	SOIL	6	X					X									
5	SC111-DR11-23-24		0820	SOIL	6															
6	SC111-DR6-2-3		0845	SOIL	6	X					X									
7	SC111-DR6-7-8		0855	SOIL	6															
8	SC111-DR6-12-13		0900	SOIL	6	X					X									
9	SC111-DR7-2-3		0940	SOIL	6	X					X									
10	SC111-DR7-7-8		0945	SOIL	6	X					X									
	Signature	Company	Date	Time	Comments/Special Instructions															
Relinquished		GeoEngineers	3/9/15	0645	(X) Added 3/19/15. DR3 (STA)															
Received		OSP	3.9.15	6:45A	O Added 3/20/15. DR3															
Relinquished																				
Received																				
Relinquished																				
Received																				
Reviewed/Date		Reviewed/Date	Chromatograms with final report <input type="checkbox"/>																	

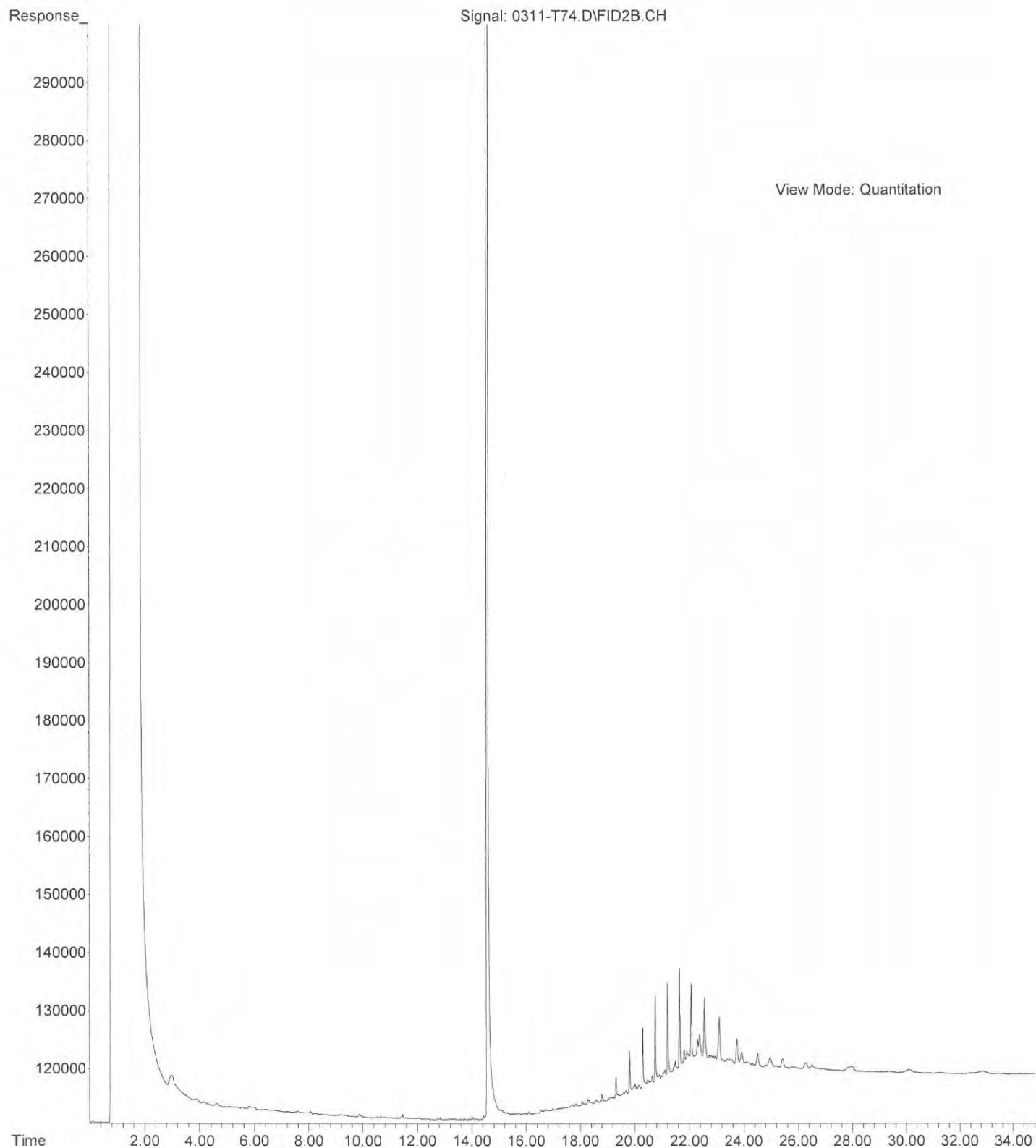
File : C:\msdchem\1\DATA\T150311\0311-T23.D
Operator : ZT
Acquired : 12 Mar 2015 2:51 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-01
Misc Info :
Vial Number: 23



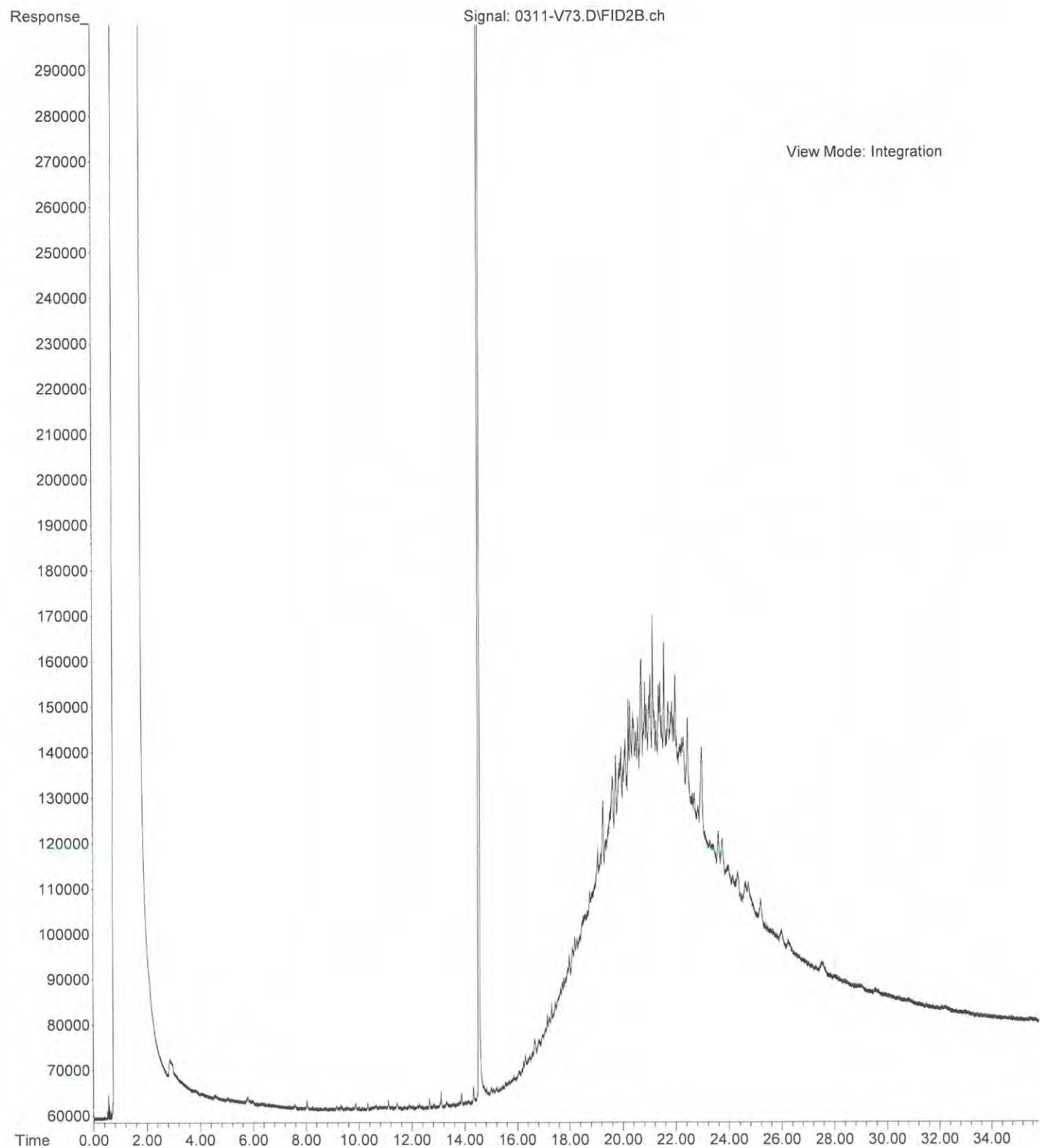
File : C:\msdchem\1\DATA\T150311\0311-T24.D
Operator : ZT
Acquired : 12 Mar 2015 3:33 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-03
Misc Info :
Vial Number: 24



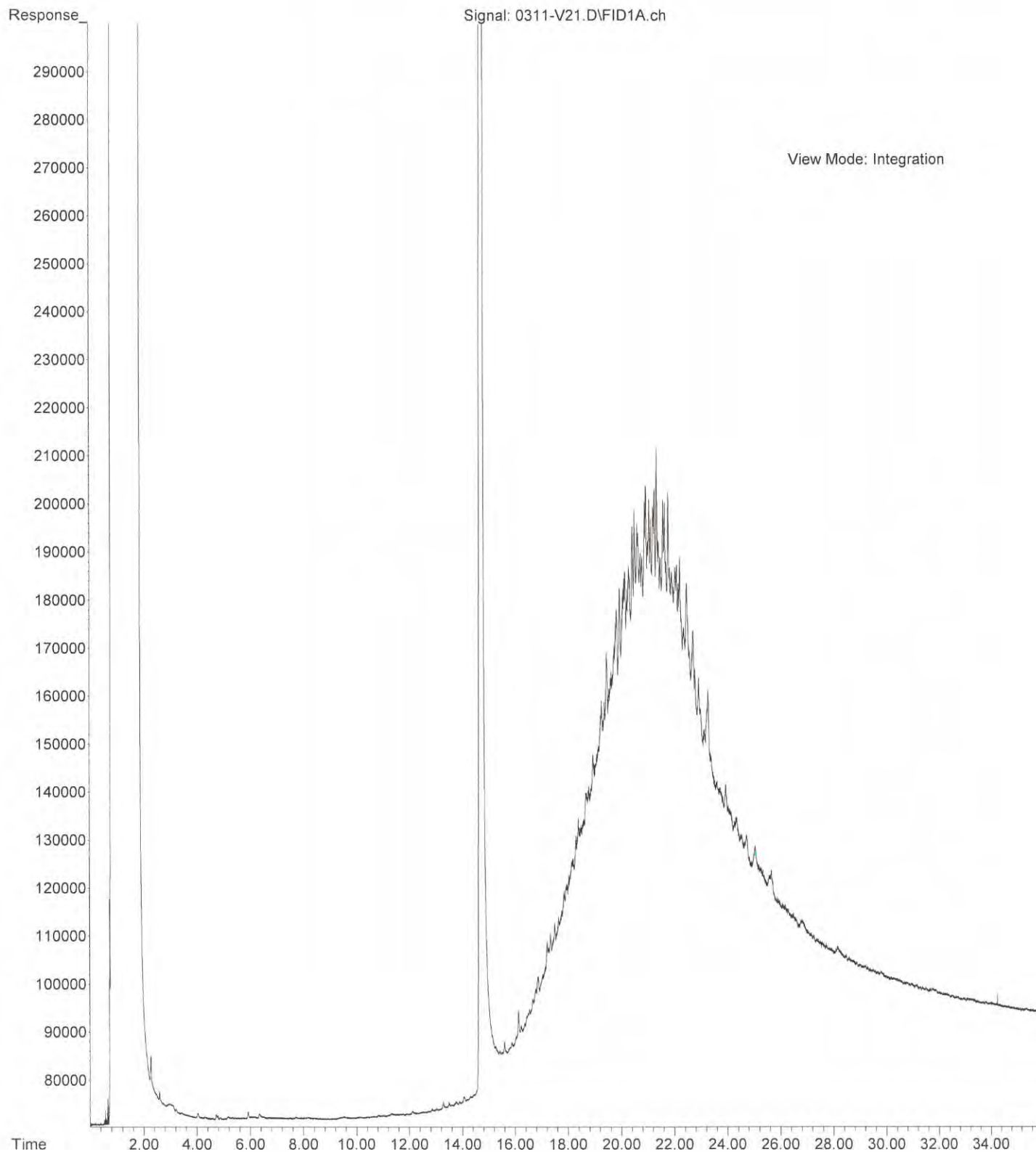
File : C:\msdchem\1\DATA\T150311.SEC\0311-T74.D
Operator : ZT
Acquired : 12 Mar 2015 3:33 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-04
Misc Info :
Vial Number: 74



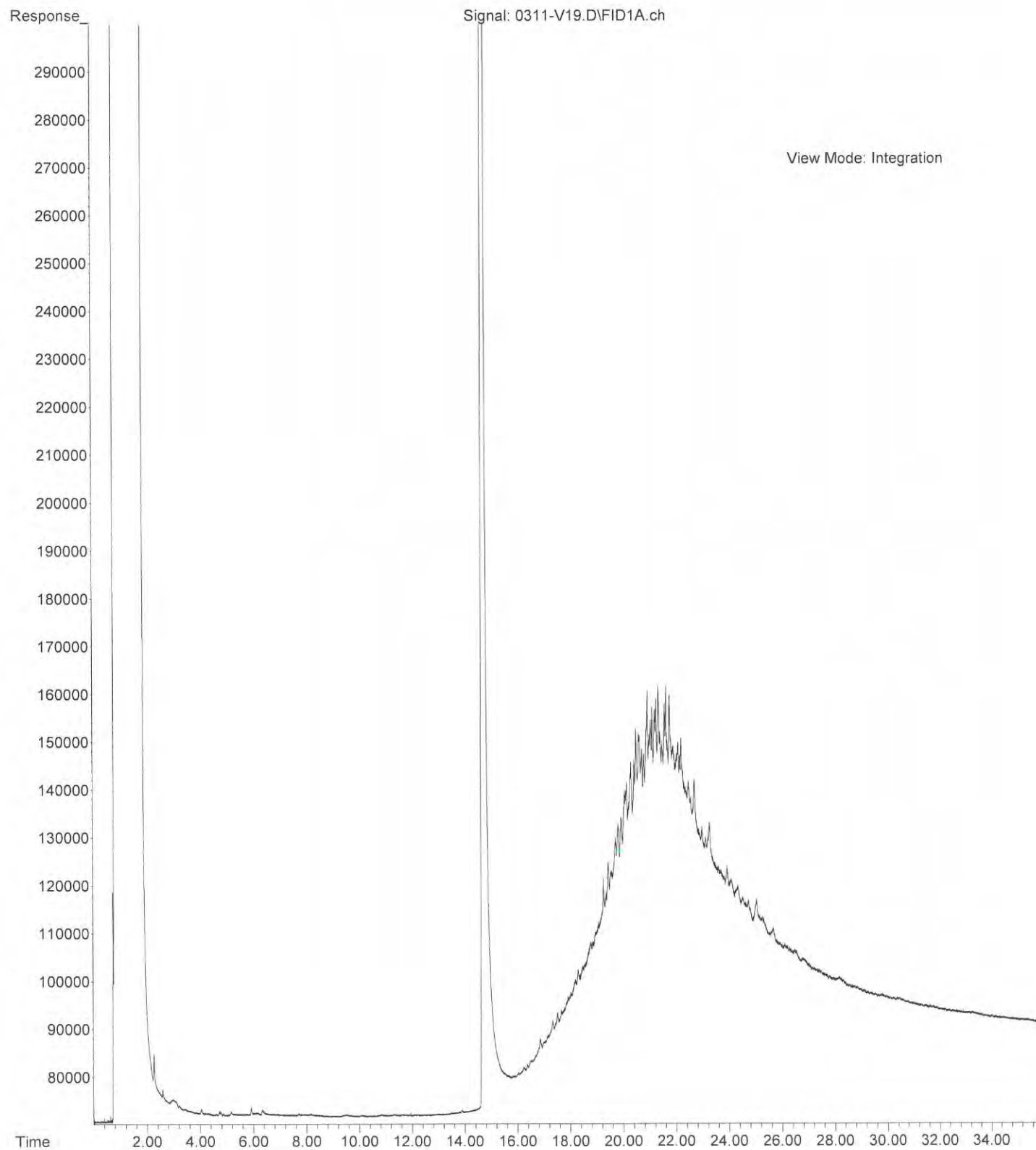
File : C:\msdchem\2\DATA\V150311.SEC\0311-V73.D
Operator :
Acquired : 12 Mar 2015 2:39 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-06
Misc Info :
Vial Number: 73



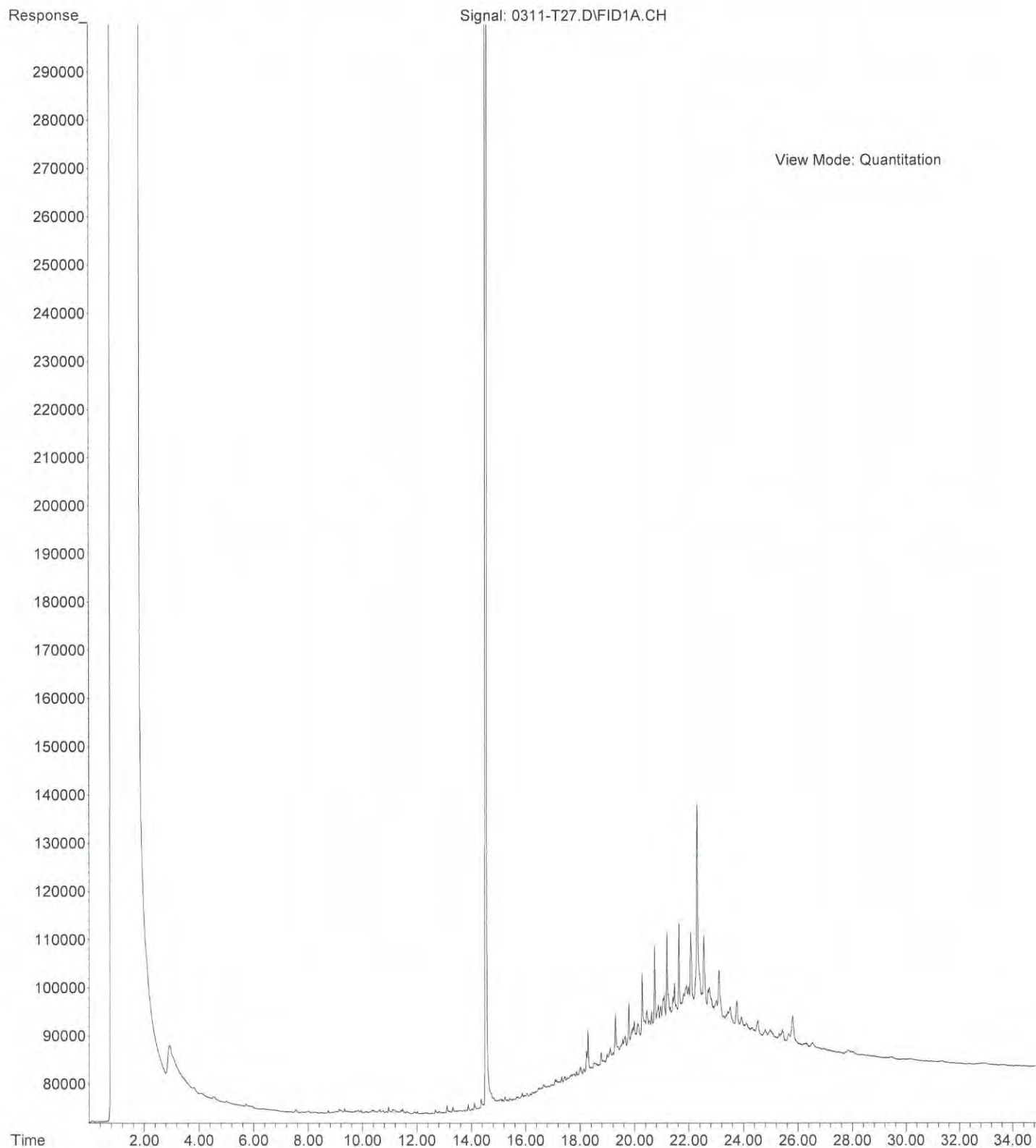
File : C:\msdchem\2\DATA\V150311\0311-V21.D
Operator :
Acquired : 12 Mar 2015 1:18 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-08
Misc Info :
Vial Number: 21



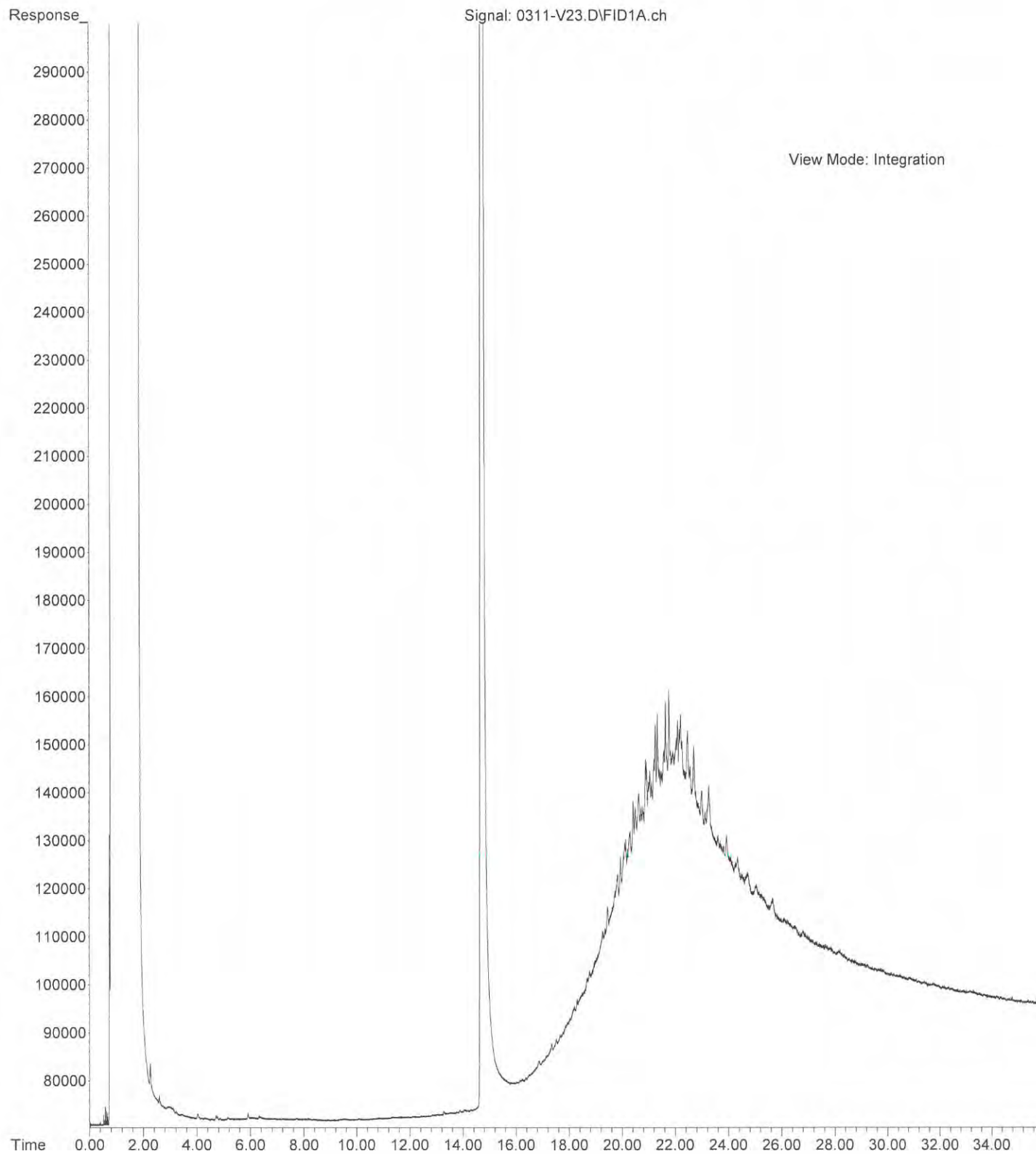
File :C:\msdchem\2\DATA\V150311\0311-V19.D
Operator :
Acquired : 11 Mar 2015 23:56 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-09
Misc Info :
Vial Number: 19



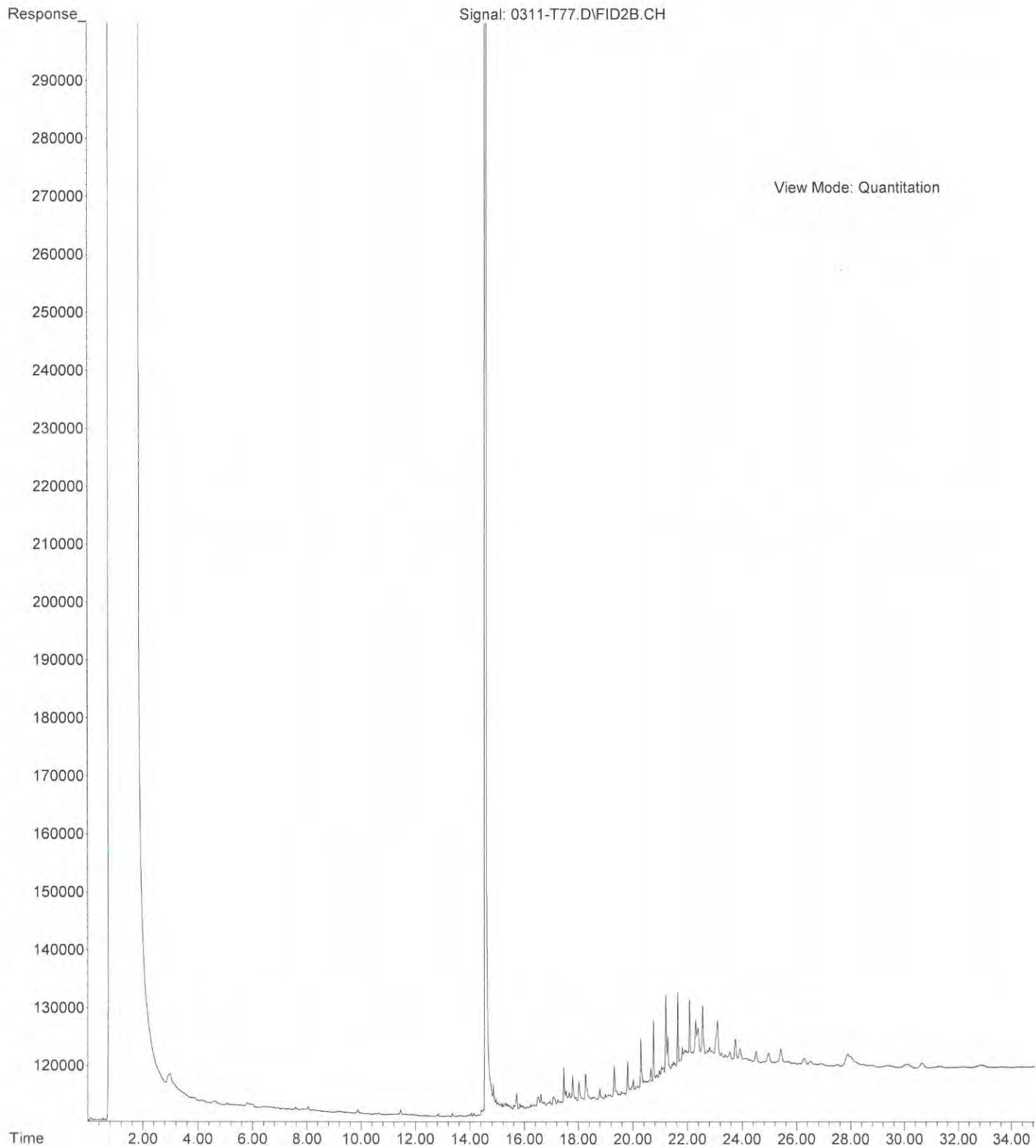
File :C:\msdchem\1\DATA\T150311\0311-T27.D
Operator : ZT
Acquired : 12 Mar 2015 5:40 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-10
Misc Info :
Vial Number: 27



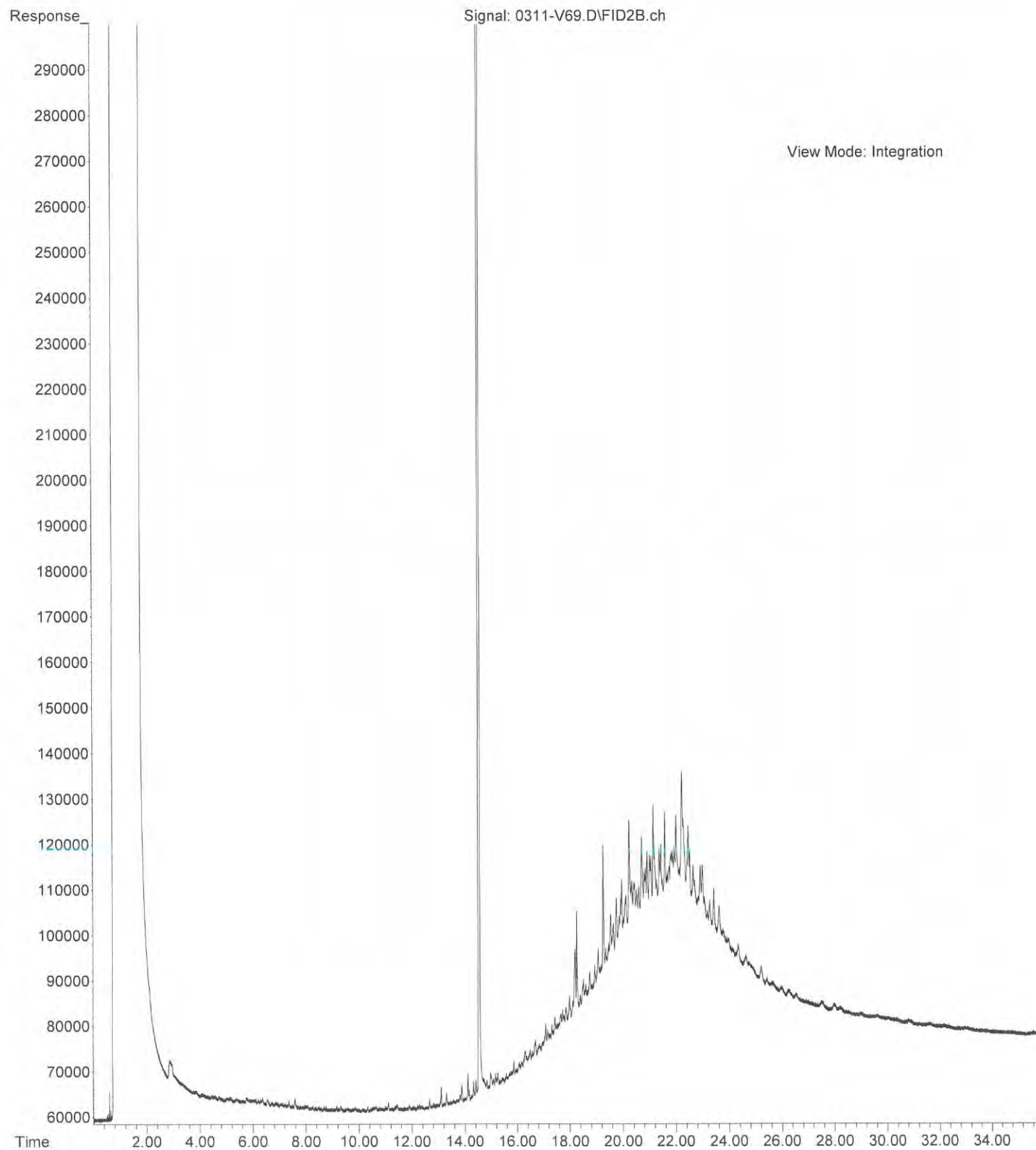
File : C:\msdchem\2\DATA\V150311\0311-V23.D
Operator :
Acquired : 12 Mar 2015 2:39 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-11
Misc Info :
Vial Number: 23



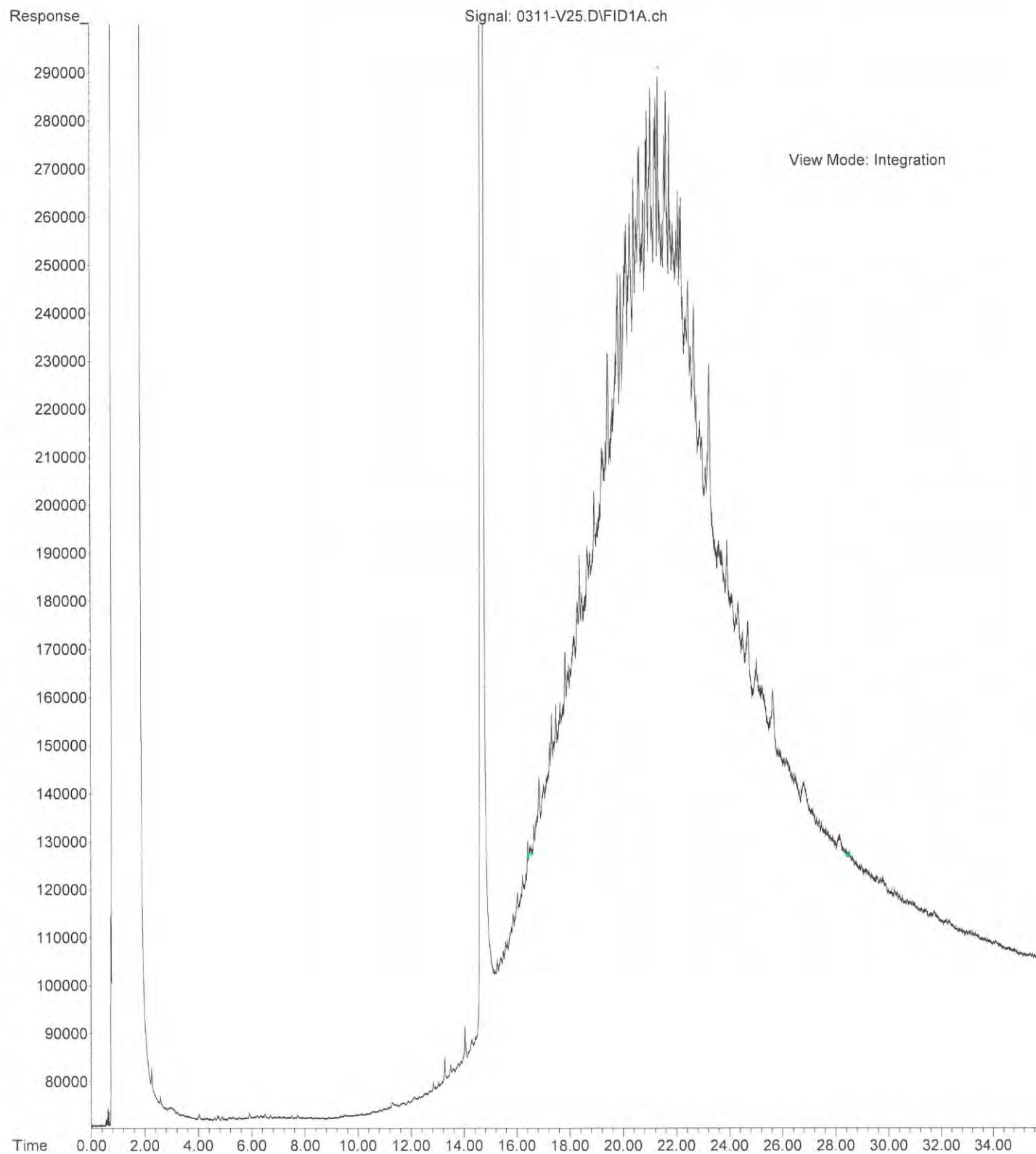
File :C:\msdchem\1\DATA\T150311.SEC\0311-T77.D
Operator : ZT
Acquired : 12 Mar 2015 5:40 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-12
Misc Info :
Vial Number: 77



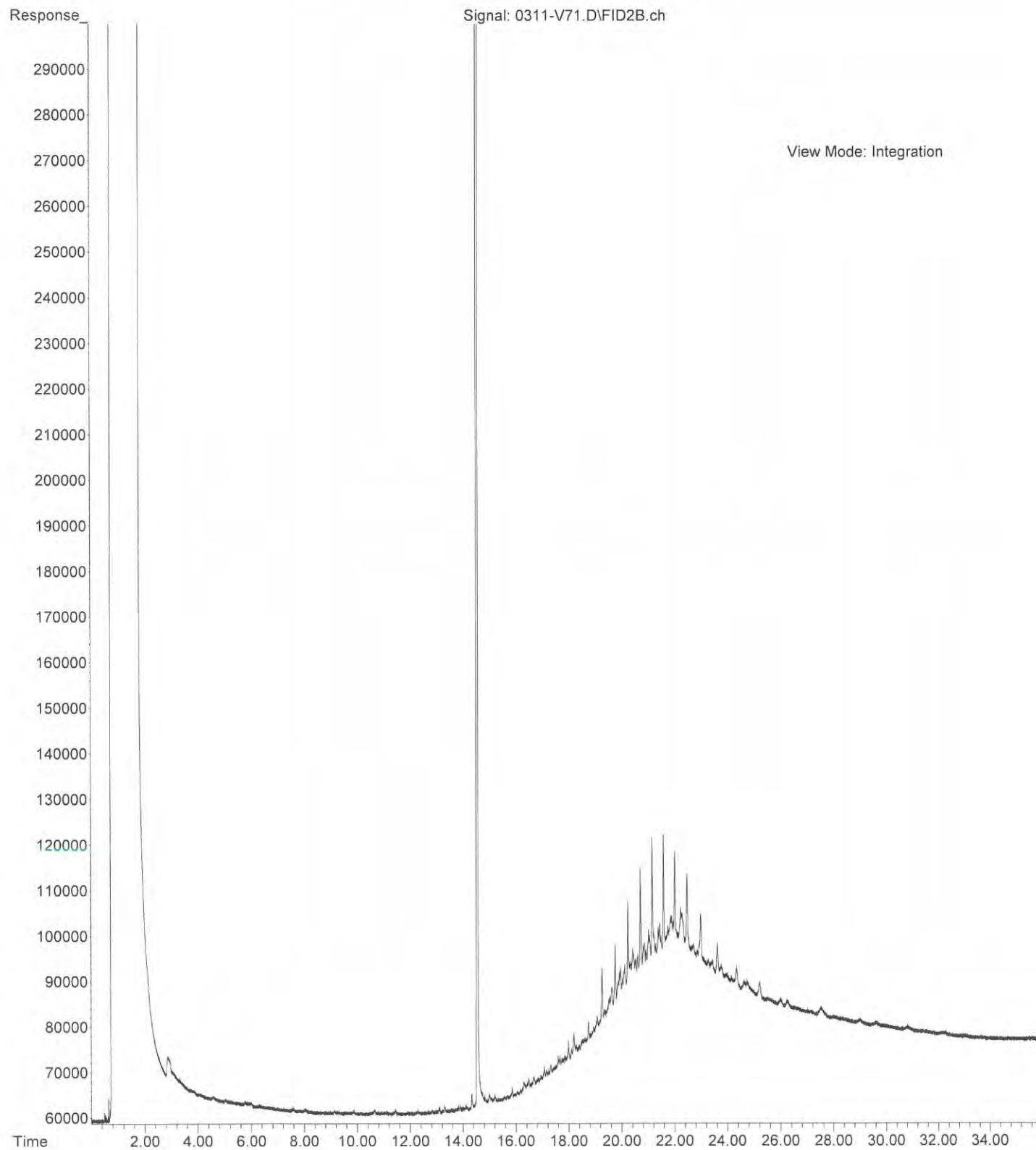
File : C:\msdchem\2\DATA\V150311.SEC\0311-V69.D
Operator :
Acquired : 11 Mar 2015 23:56 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-14
Misc Info :
Vial Number: 69



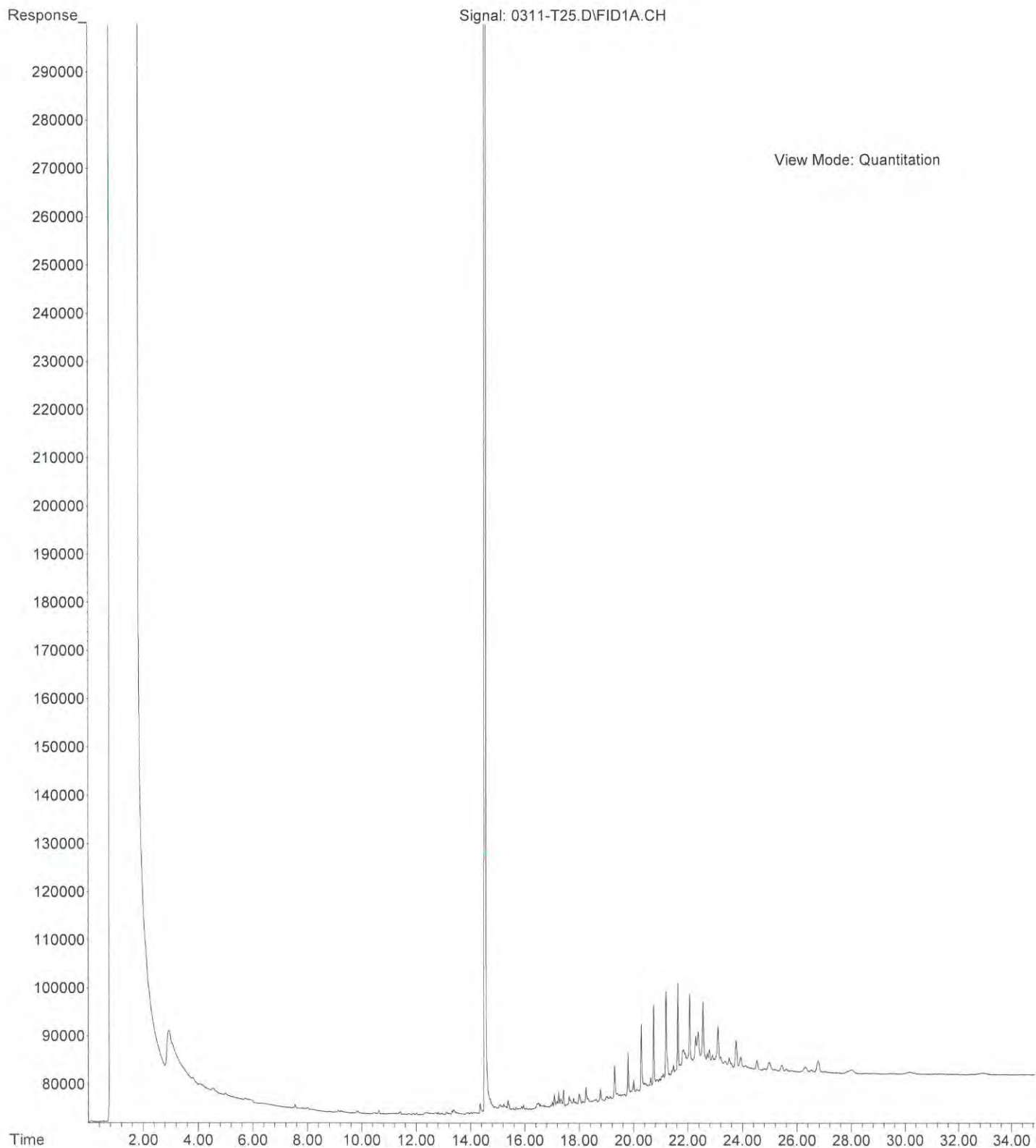
File :C:\msdchem\2\DATA\V150311\0311-V25.D
Operator :
Acquired : 12 Mar 2015 4:00 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-15
Misc Info :
Vial Number: 25



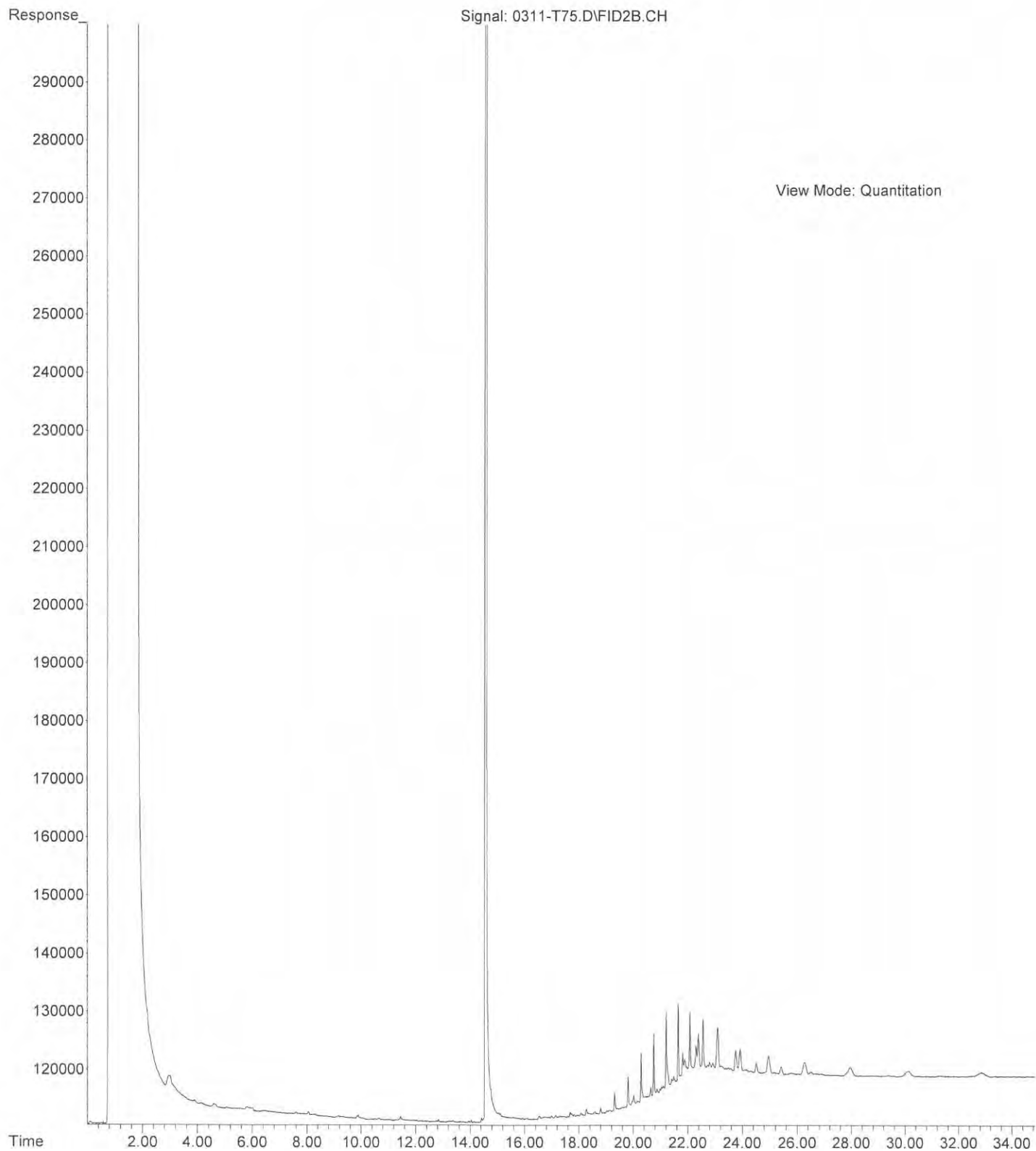
File :C:\msdchem\2\DATA\V150311.SEC\0311-V71.D
Operator :
Acquired : 12 Mar 2015 1:18 using AcqMethod V150209F.M
Instrument : Vigo
Sample Name: 03-061-16
Misc Info :
Vial Number: 71



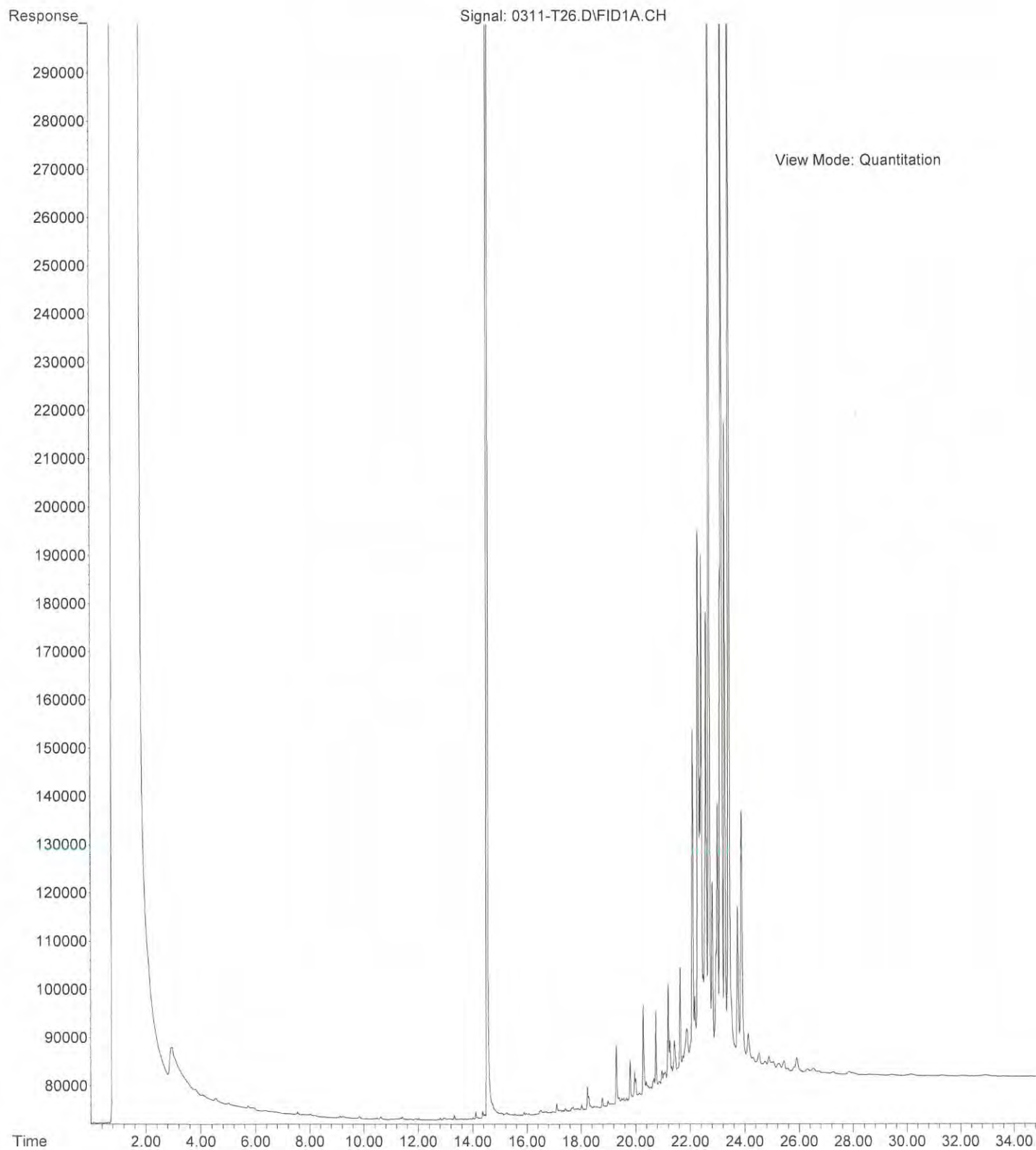
File :C:\msdchem\1\DATA\T150311\0311-T25.D
Operator : ZT
Acquired : 12 Mar 2015 4:16 using AcqMethod T150310F.M
Instrument : Teri
Sample Name: 03-061-17
Misc Info :
Vial Number: 25



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.

Have we delivered World Class Client Service?

Please let us know by visiting [**www.geoengineers.com/feedback**](http://www.geoengineers.com/feedback).

