



LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Former Manufacturing Site / Current Vacant Lot
1712 Erie Street
Utica, New York 13502

December 28, 2016

Prepared by:

Asbestos and Environmental Consulting Corporation
6308 Fly Road
East Syracuse, New York 13057

Prepared for:

City of Utica
1 Kennedy Plaza
Utica, New York 13502

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1712 Erie Street, Utica, New York

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	PURPOSE	1
1.2	PROJECT BACKGROUND / OVERVIEW	2
2.0	SCOPE OF SERVICES	3
2.1	REGULATORY AGENCY INTERVIEW AND RECORDS REVIEW	3
2.2	UTILITY CLEARANCES AND GPR SURVEY	3
2.3	LIMITED SUBSURFACE SOIL INVESTIGATION	3
2.4	LIMITED GROUNDWATER INVESTIGATION	4
2.5	LIMITED SURFACE SOILS INVESTIGATION	4
2.6	SOIL PILE INVESTIGATION	4
3.0	FIELD OBSERVATIONS	6
3.1	GPR SURVEY	6
3.2	LIMITED SUBSURFACE SOIL INVESTIGATION	6
3.3	LIMITED GROUNDWATER INVESTIGATION	6
3.4	LIMITED SURFACE SOILS INVESTIGATION	8
3.5	SOIL PILE INVESTIGATION	8
4.0	LABORATORY ANALYTICAL RESULTS	9
4.1	SUBSURFACE SOILS	9
4.2	GROUNDWATER	10
4.3	SURFACE SOILS	11
4.4	SOIL PILES	12
5.0	SUMMARY AND CONCLUSIONS	13
6.0	RECOMMENDATIONS	14

FIGURES

FIGURE 1 SITE AND SAMPLE LOCATION PLAN

TABLES

TABLE 1	SOIL ANALYSIS SUMMARY - VOCs
TABLE 2	SOIL ANALYSIS SUMMARY - SVOCs
TABLE 3	SOIL ANALYSIS SUMMARY - PCBs
TABLE 4	SOIL ANALYSIS SUMMARY - METALS
TABLE 5	GROUNDWATER ANALYSIS SUMMARY - VOCs
TABLE 6	GROUNDWATER ANALYSIS SUMMARY - SVOCs
TABLE 7	GROUNDWATER ANALYSIS SUMMARY - METALS

ATTACHMENTS

ATTACHMENT A	NYLD REPORTS
ATTACHMENT B	AECC SOIL BORING LOGS AND GROUNDWATER SAMPLING FORMS
ATTACHMENT C	EUROFINS / SPECTRUM ANALYTICAL LABORATORY REPORTS
ATTACHMENT D	EGGAN EXCAVATING & EQUIPMENT CO., INC. UST AND SPILL CLEANUP REPORT
ATTACHMENT E	SITE PHOTOS

Common Acronyms/Abbreviations

bgs – Below Ground Surface
CP-51 – (NYSDEC) Commissioner's Policy #51 (for Soil Cleanup Guidance)
ESA – Environmental Site Assessment
GPR – Ground Penetrating Radar
GPS – Global Positioning System
GWS – Groundwater Standard
HREC – Historical Recognized Environmental Condition
LSI – Limited Subsurface Investigation
N/A – Not Applicable
NYSDEC – New York State Department of Environmental Conservation
PCB – Poly-Chlorinated Biphenyls
PP13 – Priority Pollutant Metals
ppb – Parts Per Billion
ppm – Parts Per Million
ppmV – Parts Per Million by Volume
RCRA – Resource Conservation and Recovery Act
REC – Recognized Environmental Condition
RSCO – Restricted Soil Cleanup Objective
SCO – Soil Cleanup Objective
SVOC – Semi-Volatile Organic Compound
TOGS – Technical & Operational Guidance Series 1.1.1 (NYSDEC)
USEPA – United States Environmental Protection Agency
UST – Underground Storage Tank
VOC – Volatile Organic Compound

1.0 INTRODUCTION

The Asbestos & Environmental Consulting Corporation (AECC) was retained by the City of Utica to perform a Phase II Environmental Site Assessment (ESA) at the currently vacant lot located at 1712 Erie Street, in the City of Utica, New York. The parcel is displayed on Figure 1.

This document presents the results of the activities performed at the Site in the course of completing the Phase II ESA.

1.1 PURPOSE

The purpose of this investigation is to address RECs identified in the Phase I ESA completed for the Site by GHD Consulting Engineers, LLC (GHD). In GHD's Phase I ESA, dated April, 2012, the following RECs were identified:

- “1. Underground Storage Tank (UST) – [NYSDEC] records identify a 20,000-gallon UST was registered to the site that reportedly contained No. 6 fuel oil. It is presumed that the UST remains at an unknown location at the site.
2. Brownfield – The radius report identified the site is a [USEPA] brownfield site. No information identifying the presence of known contamination at the site was discovered during the course of this assessment; however, given the site's long history of manufacturing use, it is likely that the site is considered a brownfield due to perceived, or the potential for, contamination.
3. Unauthorized Use – The site is currently unoccupied and site access is unrestricted. Evidence of unauthorized dumping of refuse (trash, driveway sealant, and oil containers, etc.) is present at the site. It is unknown what the refuse contents were; however, their presence is a REC.
4. Unknown Structure (P5) – A structure was identified on the northeastern portion of the site that appeared to be a man-way. A void space beneath it extended beyond view from the surface. The structure does not appear to be part of the current sewer system, which bisects the site to the west (running north/south) and connects to the sewer system located along Oriskany Street. The use and purpose of the structure is not known.
5. Unknown Pipes (P8, P8A, P22) – Several exposed pipes were discovered outside of the building footprint on the northeast side of the site. One of the pipes (P8) appeared to be connected by a pump. Another pipe (P8A) extended vertically above ground surface and was threaded on the end. It is speculated that these pipes may have been related to existing, or historic site operations that may have included USTs or process piping. However, their actual purpose and use are not known.
6. Subslab pipe and potential structure (P7) – A subslab pipe was exposed in the northeastern portion of the site. A void space was identified below the pipe. It is not known if the void space could be related to a unknown subslab structure, or to undermining of the slab by stormwater.”

GHD's Phase I ESA also identified the following Historical RECs (HRECs):

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

1712 Erie Street, Utica, New York

- “1. Historic Industrial Use. The age and industrial use of the site are RECs due to historical waste management practices and potential and documented use of solvents and other chemicals at the site.
2. Erie Canal. The Erie Canal ran along the norther footprint of site buildings (P2, P2A, and P3), and a “harbor” area of the canal extended on the site. Both the canal and the harbor area appear to have been filled with unknown materials at some point.
3. Cistern. A cistern was identified on Sanborn maps in a location generally coinciding with the harbor area of the Erie Canal. Given historic waste management practices, it is possible that the cistern could have received discharges of waste.
4. Coal Storage. The western portion of the Utica Knitting Company facility was occupied by a coal storage area. Based on Sanborn maps, the coal storage area would have been located on site or immediately adjacent to the site.”

1.2 PROJECT BACKGROUND / OVERVIEW

Several tasks were outlined to address the identified RECs. A list of tasks performed at the Site is given below:

- Regulatory Agency Interview (NYSDEC) and Records Review
- Utility Location and GPR Survey
- Limited Subsurface Soil Investigation
- Limited Groundwater Investigation
- Soil Pile Investigation
- Surface Soil Investigation

Tasks were completed at the Site from December 1 to December 8, 2016.

2.0 SCOPE OF SERVICES

The following activities were conducted at the Site as a part of this investigation.

2.1 REGULATORY AGENCY INTERVIEW AND RECORDS REVIEW

AECC searched the NYSDEC online database for records of the 20,000-gallon UST suspected of being on-site. According to the database, the 20,000-gallon UST had been removed from the Site in 2014.

The City of Utica confirmed this as fact, and provided a partial tank closure report.

AECC spoke with Mr. Mark Tibbe of the NYSDEC (Region 6 – Utica Office), who confirmed that the tank had been removed. Mr. Tibbe stated that he was at the Site for a portion of the tank removal activities. Mr. Tibbe provided a complete copy of the tank closure and spill cleanup report, completed by Eggan Excavating & Equipment Co., Inc. (Eggan). The full tank closure report has been included as Attachment D of this report.

2.2 UTILITY CLEARANCES AND GPR SURVEY

Prior to initiating any subsurface activities, AECC's subcontractor, NYEG Drilling, LLC (NYEG), contacted Dig Safely New York to identify buried public utilities at the boundaries of the Site.

AECC subcontracted New York Leak Detection, Inc. (NYLD), to clear utilities on the Site in the vicinity of anticipated soil boring locations and to perform a Ground Penetrating Radar (GPR) survey of suspect areas of the Site.

2.3 LIMITED SUBSURFACE SOIL INVESTIGATION

Drilling services were provided by NYEG. The subsurface soil investigation included the advancement of soil borings at nineteen locations (SB-1 through SB-19) at the Site (refer to Figure 1). Boring locations were selected based upon review of the previous Phase I ESA and upon field observations. All borings were performed using direct-push methods on a pickup-truck mounted Geoprobe. Soil samples were collected continuously in each boring using macro-core sampling tools until refusal, or until approximately four feet below obvious indicators of groundwater were encountered (a depth of approximately five (5) to fifteen (15) feet below ground surface (bgs)). Field examination and headspace analysis was performed using a photoionization detector (PID) on soils collected from each four (4)-foot macro-core sample. The purpose of the headspace analysis was to screen for volatile vapors. Soil samples were collected from six (6) of the borings and placed in laboratory-supplied containers.

One (1) sample at depths from four feet or further below ground surface from six of the nineteen borings, based on boring location, observations, and / or PID screening results, was submitted for laboratory analysis. Samples were analyzed for full-list volatile organic compounds (VOCs) using USEPA method 8260, base/neutral semi-volatile organic compounds (SVOCs) by USEPA method 8270, poly-chlorinated biphenyls (PCBs) by USEPA method 8082, and Resource Conservation and Recovery Act (RCRA) 8 metals using USEPA method 6010. All soil samples were placed in coolers and transported under chain-of-custody to the local office of Eurofins Spectrum Analytical, Inc. (Spectrum), for courier transport to Spectrum's laboratory in Agawam, Massachusetts.

All boring locations were geo-located using a handheld GPS in the field, and are shown on Figure 1. Boring coordinates for each boring location are included on the boring logs (Attachment B).

2.4 LIMITED GROUNDWATER INVESTIGATION

The groundwater investigation included the installation of four (4) temporary, one-inch diameter, monitoring wells (at soil boring locations SB-1, SB-4, SB-10 and SB-13). Temporary well locations were selected based upon location, PID readings, field observations, the estimated direction of groundwater flow, and the feasibility of installation (drilling conditions). Further description of well construction is found in Section 3.3 and in the groundwater sampling logs included as Attachment B of this report.

On December 8, the temporary wells were purged utilizing low-flow methods with a peristaltic pump, in an attempt to stabilize groundwater parameters. During the purging of the wells, turbidity, pH, dissolved oxygen, temperature, and electrical conductivity were measured in the field, at regular intervals, to confirm groundwater stabilization prior to sampling. After the parameters stabilized, a sample was collected and stored on ice in laboratory-supplied containers. Like the soil samples, the groundwater samples were handled under strict chain-of-custody protocol and delivered to the local Spectrum office, for delivery to Spectrum's laboratory.

The groundwater samples were analyzed for Full-list VOCs using USEPA method 8260, base/neutral SVOCs by USEPA method 8270, and RCRA 8 metals using USEPA method 6010/7471.

2.5 LIMITED SURFACE SOILS INVESTIGATION

Surface soil samples were collected from five (5) locations across the Site (refer to Figure 1). The surface soil samples were collected from just below the top organic layer, from the uppermost portion of the first soil probe sample from five boring locations. The surface soil samples were submitted for analysis of Base/Neutral SVOCs (EPA method 8270), PCBs (EPA method 8082) and Priority Pollutant (PP13) metals (EPA method 6010).

All surface soil samples were placed in laboratory-supplied glassware, stored in coolers, and transported under chain-of-custody to the local office of Spectrum, for courier delivery to Spectrum's laboratory.

2.6 SOIL PILE INVESTIGATION

Numerous soil and stone piles were present at the Site at the time of field activities. AECC was informed by the City of Utica that the site was being used by CCI Companies, Inc. (CCI) in relation to a highway construction project elsewhere in the City of Utica. AECC did not sample piles that appeared to be associated / generated by CCI. AECC did identify two (2) soils piles that appeared to have been present at the site for a longer period of time and would potentially be those identified in GHD's Phase I investigation. One of the piles was slightly overgrown by weeds and partially covered by plastic, an indication that it had been present for a longer period of time.

Soil samples were collected from two (2) soil piles located at the Site. The number of samples collected from each pile was determined using Table 4 of CP-51 ("Recommended Number of Soil Samples for Soil Imported To or Exported From a Site"). From each pile, one 'grab' sample

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

1712 Erie Street, Utica, New York

for Full-list VOCs analysis by USEPA method 8260 was collected, and one 'composite' sample was collected and analyzed for Base/Neutral SVOCs (EPA method 8270), PCBs (EPA method 8082) and PP13 metals (EPA method 6010).

All soil pile samples were placed in laboratory-supplied glassware, stored in coolers, and transported under proper chain-of-custody to the local office of Spectrum, for courier delivery to their laboratory.

3.0 FIELD OBSERVATIONS

3.1 GPR SURVEY

Complete NYLD Reports have been included as Attachment A of this report.

NYLD used GPR and other equipment to clear boring locations and other areas of environmental concern at the Site. In general, proposed boring locations did not need to be adjusted, and a limited number of subsurface conditions of concern were identified.

NYLD observed no abnormal imagery in the vicinity of the former UST location.

The unknown structure (identified in the GHD Phase I ESA, REC identification number 4) was determined to be an access vault for the gas / steam line that runs laterally beneath the Site, east-west. AECC took additional photos of the structure, which have been included as Attachment E of this report.

The protruding piping described as RECs number 5 and 6 in the GHD Phase I ESA could not be located during the course of completing this Assessment. Based upon the described location of the piping, it is presumed that the piping was associated with the former UST and was removed during UST removal activities.

NYLD detected a few discrete locations of subsurface anomalies, believed to be associated with some kind of drainage system, but characterized on the final report as “unknown”.

3.2 LIMITED SUBSURFACE SOIL INVESTIGATION

The subsurface conditions were typified by the presence of fill-like material (brick, concrete, gravel, and coarse sand) from about 6” to approximately four (4) to six (6) feet below ground level. At greater depths, soils were generally characterized as a medium sand with trace gravel and stone fragments interspersed. Some silty sand was encountered where conditions allowed for greater drilling depths.

Evidence of soil contamination (PID screening, visual or olfactory), was noted at multiple boring locations. Soil borings SB-1, SB-2, SB-3, SB-4, SB-5, SB-10, SB-11, and SB-16 exhibited some combination of petroleum odors, stained soils, a visible sheen on the boring sleeves, and/or PID response. PID response was fairly minimal, with the highest reading elicited from SB-10 (4.5 ppmV head space reading).

No petroleum or otherwise suspicious odors were observed during the soil screening process at the other soil boring locations. PID headspace readings were non-detect at these locations

For a complete description of the soil profile and a summary of PID analysis readings at each boring location refer to the soil boring logs included as Attachment B.

Prior to departing from the Site, NYEG and AECC personnel backfilled the borings with non-hydrated bentonite pellets and boring cuttings.

3.3 LIMITED GROUNDWATER INVESTIGATION

Four (4) temporary monitoring wells constructed of a ten-foot section of one-inch diameter, 0.10-inch slotted screen and one-inch diameter threaded riser, were installed at soil boring locations

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1712 Erie Street, Utica, New York

SB-1, SB-4, SB-10, and SB-13. Temporary wells were given numbers corresponding to the following table:

Soil Boring ID	Temporary Well ID
SB-1	TW-1
SB-4	TW-3
SB-10	TW-2
SB-13	TW-4

The locations of the temporary monitoring wells are shown on Figure 1. Prior to sampling, AECC personnel gauged the wells for depth to water (DTW). During the development of the well, purged water was measured for turbidity, pH, temperature, electrical conductivity, and dissolved oxygen (DO).

Temporary Well TW-1 (SB-1) was installed on December 6, 2016. The well was purged and sampled on December 8, 2016. The measured depth to groundwater on December 8 was 3.82', and the total depth of the well was 9.7' bgs. Measured parameters stabilized after approximately two-and-a-half (2.5) gallons of water were purged from the monitoring well. The following table summarizes groundwater parameters at the time of sampling:

TW-1	
Temperature	9.20°C
pH	6.63
Dissolved Oxygen	1.05 mg/L
Conductivity	0.404 millisiemens per centimeter (mS/cm)
Turbidity	554 Nephelometric Turbidity Units (NTU)*

**Turbidity was not decreasing despite purge efforts*

There was a measured drop (drawdown) in water level of 0.23' from the first measurement to the end of sampling at TW-1.

Temporary Well TW-2 (SB-10) was installed on December 7, 2016. The well was purged and sampled on December 8, 2016. At TW-2, the depth to groundwater was measured as 6.92' and the total depth of the well was 11.0' bgs. Measured parameters stabilized after approximately one-and-a-half (1.5) gallons of water were purged from the monitoring well. The following table summarizes groundwater parameters at the time of sampling:

TW-2	
Temperature	10.81°C
pH	5.94
Dissolved Oxygen	0.77 mg/L
Conductivity	1.20 mS/cm
Turbidity	0.9 NTU

There was no measured drop in water level from the first depth to groundwater measurement to the end of sampling at TW-2.

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1712 Erie Street, Utica, New York

Temporary Well TW-3 (SB-4) was installed on December 6, 2016. The well was purged and sampled on December 8, 2016. At TW-3, the depth to groundwater was measured as 2.78' and the total depth of the well was 11.7' bgs. During purge activities, black oil droplets were observed in the discharge groundwater. Due to the potential for this oil to foul the sensors, the water quality meter was not used at this well location. Therefore, no parameters were collected at TW-3. Based on this observation of oil droplets, the NYSDEC Spill Hotline was contacted and Spill File number 16-08628 was assigned to the Site. A petroleum odor and blackish water was recovered from TW-3, and after approximately 2 gallons of water had been purged the groundwater sample was collected.

Temporary Well TW-4 (SB-13) was installed on December 7, 2016. The well was purged and sampled on December 8, 2016. At TW-4, the depth to groundwater was measured as 5.58' and the total depth of the well was 8.35' bgs. Measured parameters stabilized after approximately one (1) gallon of water was purged from the monitoring well. The following table summarizes groundwater parameters at the time of sampling:

TW-4	
Temperature	8.60°C
pH	5.93
Dissolved Oxygen	1.47 mg/L
Conductivity	1.47 mS/cm
Turbidity	11.0 NTU

There was a measured drop in water level (drawdown) of 0.77' from the first depth to groundwater measurement to the end of sampling at TW-4.

3.4 LIMITED SURFACE SOILS INVESTIGATION

A total of five (5) grab surface soil samples were collected at the Site.

The surface soil samples came from boring locations SB-3, SB-6, SB-9, SB-11, and SB-16 (as shown on Figure 1).

Surface soils were generally characterized as a dark brown coarse sand and fill material.

3.5 SOIL PILE INVESTIGATION

AECC collected samples from two of the soil piles present at the site that appeared to have been present at the Site for an extended period of time, and unlikely to be associated with CCI's activities at the Site.

The soil piles contained a dark brown sandy soil that included stones and pebbles, especially on the surface of the piles.

No odors or staining of the soil was observed during sample collection.

4.0 LABORATORY ANALYTICAL RESULTS

Soil sample analysis results were compared to applicable Unrestricted Soil Cleanup Objectives (SCOs) and Commercial and Industrial Restricted Soil Cleanup Objectives (RSCOs) referenced in NYSDEC Commissioner's Policy #51 (CP-51), and/or 6 NYCRR Part 375 (Part 375). Groundwater analytical results were compared with the NYSDEC groundwater standards and guidance values published in the NYSDEC Division of Water Technical and Operations Guidance Series (TOGS) Memorandum 1.1.1.

Summary tables comparing the detected contaminant concentrations to the NYSDEC standards / guidance values are presented in the Tables section of this report (Tables 1 through 7).

The complete laboratory analysis reports from Spectrum Analytical are presented in Attachment C.

4.1 SUBSURFACE SOILS

VOCs

Acetone was detected in the subsurface soil samples collected from SB-2, SB-3, SB-4, and SB-16. The concentration of acetone detected in SB-2 (0.0618 ppm) and SB-3 (0.0650 ppm) exceeds the Unrestricted Use SCO of 0.05 ppm for acetone. The respective concentrations of acetone detected in subsurface soil samples SB-4 and SB-16 are below the Unrestricted SCO objective. It is noted that acetone is a common laboratory contaminant.

A trace concentration of 2-butanone (methyl ethyl ketone or MEK) was detected in subsurface soil sample SB-3. The concentration detected does not exceed the Unrestricted Use SCO for 2-butanone.

Subsurface soil sample SB-6 was the only subsurface sample to contain VOCs aside from acetone or 2-butanone (MEK). SB-6 contained detectable concentrations of vinyl chloride, trichloroethene (TCE), *trans*-1,2-Dichloroethene, and *cis*-1,2-Dichloroethene. The detected concentration of *cis*-1,2-Dichloroethene exceeds the Unrestricted Use SCO for that compound.

No VOCs were detected in the subsurface soil sample collected from SB-1.

SVOCs

Several SVOCs were detected at concentrations above their respective method detection limits in the subsurface soil samples collected from the Site. The following SVOCs were detected in all six subsurface soil samples collected:

- Benzo (a) anthracene
- Chrysene
- Pyrene

In addition to the above, numerous other SVOCs were detected above their respective method detection limits in at least one of the subsurface soil samples.

The following compounds were detected above their respective Unrestricted Use SCO in subsurface soil samples SB-4 and SB-6:

- Benzo (a) anthracene
- Benzo (a) pyrene
- Benzo (b) fluoranthene
- Chrysene
- Indeno (1,2,3-cd) pyrene

For a complete list of all SVOC detections, refer to Summary Table 2 (Soil Analysis Summary – SVOCs).

It is noted that all SVOC concentration values for the subsurface soil samples were determined from laboratory dilution of the collected samples.

PCBs

No PCBs were detected in any of the subsurface soil samples that were collected.

Metals

Arsenic was detected at a concentration that exceeds its respective Unrestricted Use SCO, Commercial RSCO, and Industrial RSCO, in subsurface soil sample SB-6.

Chromium was detected at a concentration that exceeds its Unrestricted Use SCO in subsurface soil sample SB-6.

Selenium was detected at a concentration that exceeds its Unrestricted Use SCO in subsurface soil sample SB-6.

Lead was detected at a concentration that exceeds its Unrestricted Use SCO in subsurface soil samples SB-2, SB-4, and SB-6.

Mercury was detected at a concentration that exceeds its Unrestricted Use SCO in subsurface soil samples SB-2, SB-3, SB-4, and SB-6.

Other metals were detected in each of the six subsurface soil samples, but all other detected concentrations were below their respective Unrestricted Use SCO.

4.2 GROUNDWATER

VOCs

The following VOCs were detected at concentrations that exceed their respective applicable groundwater standard in the groundwater sample collected from TW-2:

- *cis*-1,2-dichloroethene
- *trans*-1,2-dichloroethene
- 1,1,1-trichloroethane
- Trichloroethene (TCE)
- Vinyl chloride

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1712 Erie Street, Utica, New York

Vinyl chloride was also detected at a concentration exceeding its respective groundwater standard in the sample collected from TW-3.

Trace concentrations of 1,1-dichloroethane and trans-1,2-dichloroethene were detected in the groundwater sample collected from TW-3. The concentrations of these compounds do not exceed the applicable groundwater standard.

No VOCs were detected in the groundwater samples collected from TW-1 and TW-4.

SVOCs

Trace concentrations of the SVOCs 1-methylnaphthalene and 2-methylnaphthalene were detected in the groundwater sample collected from TW-1. There is no established groundwater standard for these compounds.

No SVOCs were detected in the groundwater samples collected from TW-2, TW-3, and TW-4.

Metals

Lead was detected at a concentration that exceeds its applicable groundwater standard in the groundwater sample collected from TW-3.

Trace concentrations of multiple metal compounds were detected in each of the four collected groundwater samples. Aside from the above-mentioned lead exceedance, the detected concentrations of metals do not exceed their respective groundwater standards.

4.3 SURFACE SOILS

SVOCs

The following SVOCs were detected at concentrations above their respective Unrestricted Use SCO in surface soil samples SB-3 (Surface) and SB-9 (Surface):

- Benzo (a) anthracene
- Benzo (a) pyrene (also exceeding this compounds Commercial and Industrial RSCOs)
- Benzo (b) fluoranthene
- Chrysene
- Dibenzo (a,h) anthracene
- Indeno (1,2,3-cd) pyrene

Benzo (b) fluoranthene, from above, was also detected above its respective Unrestricted Use SCO in surface soil sample SB-6 (Surface).

Additional SVOCs were also detected in surface soil samples from SB-3, SB-6, SB-9, and SB-11, but at concentrations below their respective Unrestricted Use SCOs.

No SVOCs were detected in the surface soil sample from SB-16.

PCBs

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
1712 Erie Street, Utica, New York

The PCB Aroclor-1260 was detected at a concentration of 0.0674 ppm in the surface soil sample from SB-3 and at a concentration of 0.0157 ppm in the surface soil sample from SB-9. These concentrations do not exceed the Unrestricted Use SCO of 0.1 ppm for total PCBs.

PCBs were not detected in surface soil samples from SB-6, SB-11, and SB-16.

Metals

Arsenic was detected at a concentration that exceeds its respective Unrestricted Use SCO, Commercial RSCO, and Industrial RSCO, in surface soil samples from SB-3 and SB-6.

Lead was detected at a concentration that exceeds its Unrestricted Use SCO in surface soil sample from SB-9.

Mercury was detected at a concentration that exceeds its Unrestricted Use SCO in surface soil sample from SB-3.

Other metals were also detected in the surface soil samples, but at concentrations below their respective Unrestricted Use SCO.

4.4 SOIL PILES

VOCs

Trace concentrations of five VOCs were detected in the sample collected from Soil Pile 2 (SP-02). None of the detected concentrations exceeded their respective Unrestricted Use SCOs.

No VOCs were detected in the sample collected from Soil Pile 1 (SP-01).

SVOCs

Trace concentrations of ten SVOCs were detected in the sample collected from SP-01. None of the detected concentrations exceeded their respective Unrestricted Use SCOs.

No VOCs were detected in the sample collected from SP-02.

PCBs

No PCBs were detected in either of the soil pile samples that were collected.

Metals

No metals were detected above their respective Unrestricted Use SCO from either of the soil pile samples that were collected.

5.0 SUMMARY AND CONCLUSIONS

Based on the information developed from this Limited Phase II report, the following conclusions have been developed:

- The 20,000 gallon UST has been removed from the Site and a tank closure report is on file with the NYSDEC. A spill number was assigned to this site due to the presence of oil on soils and water. Soils, groundwater, and oil were removed at the direction of NYSDEC and the spill was closed.
- The presence of numerous SVOCs and metals in soils will require special handling of these soils during any redevelopment activities to ensure proper management and disposal of these soils.
- During groundwater sampling, free product was observed in the discharge water from TW-3.
- The groundwater sample from TW-2 contained high concentrations of chlorinated solvents including trichloroethene, *cis*-1,2-dichloroethene, *trans*-1,2-dichloroethene, 1,1,1-trichloroethane, and vinyl chloride in exceedance of NYSDEC TOGS standards.
- The data collected in this investigation cannot definitely determine if the source of the chlorinated solvents is on this Site or on an upgradient site.

6.0 RECOMMENDATIONS

Based upon the conclusions stated above, AECC is recommending the following:

- A copy of this report should be provided to Mr. Mark Tibbe of the NYSDEC for his review and distribution.
- Additional investigation should be undertaken to determine if the Site is the source of the chlorinated solvents in groundwater. The NYSDEC should be consulted to determine an appropriate scope for this supplemental investigation. AECC anticipates that at least three permanent wells will be needed to allow for a determination of hydraulic gradient and collection of samples upgradient of TW-2.
- Consultation with NYSDEC is also needed to resolve the finding of free product in TW-3. Additional permanent wells may also be required to address this finding.

If you should have any questions regarding the information presented in this report, please feel free to contact our office at your convenience.

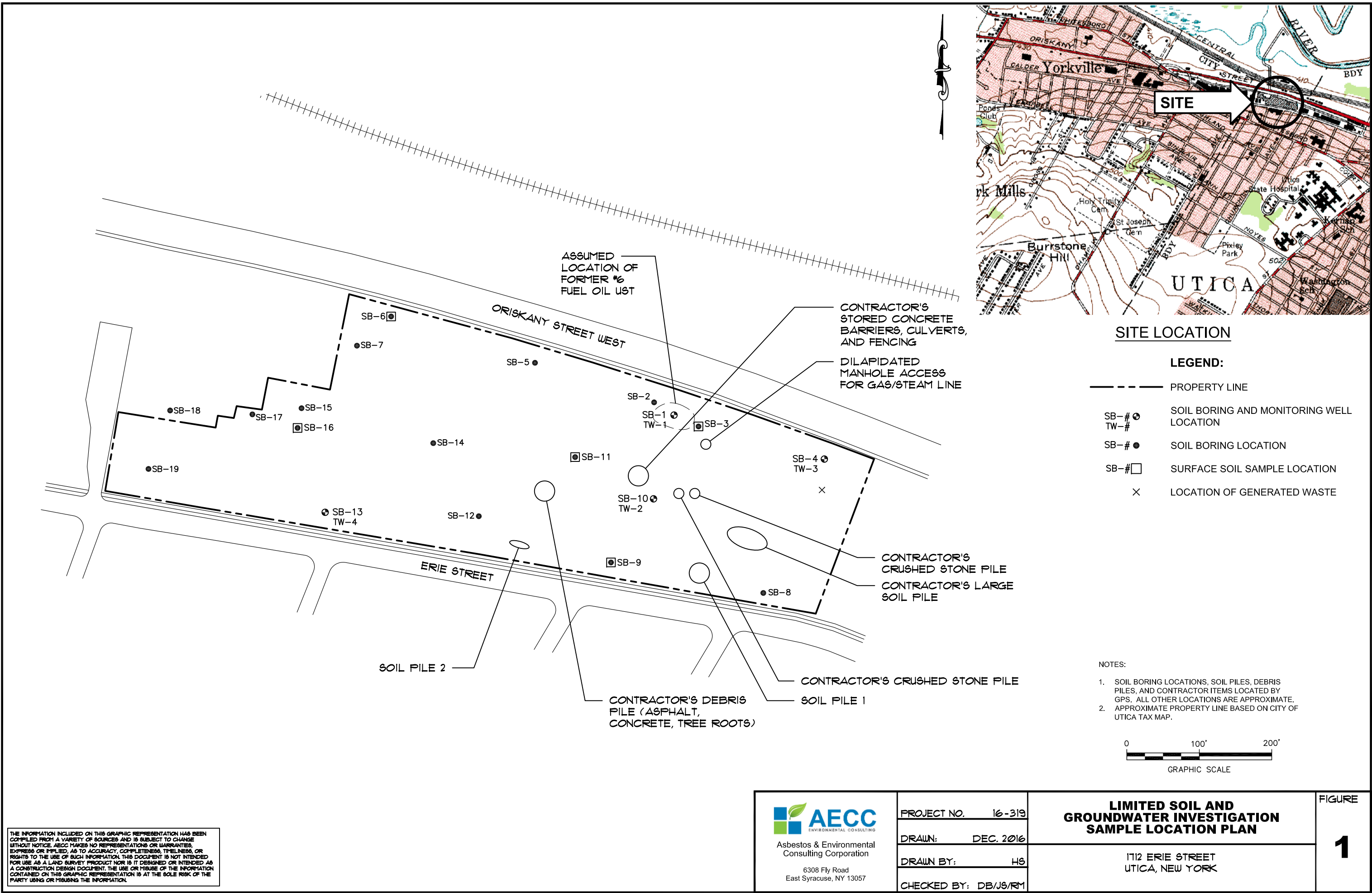
Sincerely,
Asbestos & Environmental Consulting Corporation



James Saxton
Project Manager

FIGURES

SITE AND SAMPLE LOCATION PLAN



THE INFORMATION INCLUDED ON THIS GRAPHIC REPRESENTATION HAS BEEN COMPILED FROM A VARIETY OF SOURCES AND IS SUBJECT TO CHANGE WITHOUT NOTICE. AECC MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, AS TO ACCURACY, COMPLETENESS, TIMELINESS, OR RIGHTS TO THE USE OF SUCH INFORMATION. THIS DOCUMENT IS NOT INTENDED FOR USE AS A LAND SURVEY PRODUCT NOR IS IT DESIGNED OR INTENDED AS A CONSTRUCTION DESIGN DOCUMENT. THE USE OR MISUSE OF THE INFORMATION CONTAINED ON THIS GRAPHIC REPRESENTATION IS AT THE SOLE RISK OF THE PARTY USING OR MISUSING THE INFORMATION.

TABLES

TABLES 1 - 7

TABLE 1
Soil Analysis Summary - VOCs
Method SW-846 8260

Volatile Organic Compounds	CAS No.	Commercial RSCO	Industrial RSCO	Unrestricted SCO	SB-1	SB-2	SB-3	SB-4	SB-6	SB-16	SP-01	SP-02*
					12/06/16	12/06/16	12/06/16	12/06/16	12/06/16	12/07/16	12/07/16	12/07/16
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	NS	NS	6	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Acetone	67-64-1	500	1000	0.05	BRL	0.0618 J	0.065	0.0457 J	BRL	0.031 J	BRL	BRL
Acrylonitrile	107-13-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzene	71-43-2	44	89	0.06	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bromobenzene	108-86-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bromochloromethane	74-97-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bromodichloromethane	75-27-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bromoform	75-25-2	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bromomethane	74-83-9	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0714 J
2-Butanone (MEK)	78-93-3	500	1000	0.12	BRL	BRL	0.0129	BRL	BRL	BRL	BRL	BRL
n-Butylbenzene	104-51-8	500	1000	12	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
sec-Butylbenzene	135-98-8	500	1000	11	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0171 J
tert-Butylbenzene	98-06-6	500	1000	5.9	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0143 J
Carbon disulfide	75-15-0	NS	NS	2.7	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Carbon tetrachloride	56-23-5	22	44	0.76	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Chlorobenzene	108-90-7	500	1000	1.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Chloroethane	75-00-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Chloroform	67-66-3	350	700	0.37	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Chloromethane	74-87-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
2-Chlorotoluene	95-49-8	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
4-Chlorotoluene	106-43-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Dibromochloromethane	124-48-1	NS	NS	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2-Dibromoethane (EDB)	106-93-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Dibromomethane	74-95-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2-Dichlorobenzene	95-50-1	500	1000	1.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,3-Dichlorobenzene	541-73-1	280	560	2.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	106-46-7	130	250	1.8	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Dichlorodifluoromethane (Freon12)	75-71-8	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1-Dichloroethane	75-34-3	240	480	0.27	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2-Dichloroethane	107-06-2	30	60	0.02	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1-Dichloroethene	75-35-4	500	1000	0.33	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
cis-1,2-Dichloroethene	156-59-2	500	1000	0.25	BRL	BRL	BRL	BRL	0.442	BRL	BRL	BRL
trans-1,2-Dichloroethene	156-60-5	500	1000	0.19	BRL	BRL	BRL	BRL	0.0587	BRL	BRL	BRL
1,2-Dichloropropane	78-87-5	NS	NS	700	BRL	BRL	BRL	BRL	0.442	BRL	BRL	BRL
1,3-Dichloropropane	142-28-9	NS	NS	0.3	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
2,2-Dichloropropane	594-20-7	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1-Dichloropropene	563-58-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Ethylbenzene	100-41-4	390	780	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
2-Hexanone (MBK)	591-78-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Isopropylbenzene	98-82-8	NS	NS	2.3	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
4-Isopropyltoluene	99-87-6	NS	NS	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0205 J
Methyl tert-butyl ether	1634-04-4	500	1000	0.93	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Methylene chloride	75-09-2	500	1000	0.05	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	NS	NS	12	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
n-Propylbenzene	103-65-1	500	1000	3.9	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Styrene	100-42-5	NS	NS	300	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	0.6	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Tetrachloroethene	127-18-4	150	300	1.3	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Toluene	108-88-3	500	1000	0.7	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2,3-Trichlorobenzene	87-61-6	NS	NS	20	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2,4-Trichlorobenzene	120-82-1	NS	NS	3.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,3,5-Trichlorobenzene	108-70-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1,1-Trichloroethane	71-55-6	500	1000	0.68	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Trichloroethene	79-01-6	200	400	0.47	BRL	BRL	BRL	BRL	0.391	BRL	BRL	BRL
Trichlorofluoromethane (Freon 11)	75-69-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2,3-Trichloropropane	96-18-4	NS	NS	0.34	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2,4-Trimethylbenzene	95-63-6	190	380	3.6	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0176 J
1,3,5-Trimethylbenzene	108-67-8	190	380	8.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Vinyl chloride	75-01-4	13	27	0.02	BRL	BRL	BRL	BRL	0.0567	BRL	BRL	BRL
m,p-xylene	17960123-1	500	1000	0.26	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
o-xylene	95-47-6	500	1000	0.26	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Tetrahydrofuran	109-99-9	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Ethyl ether	60-29-7	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
tert-amyl methyl ether	994-05-8	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Ethyl tert-butyl ether	637-92-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Di-isopropyl ether	108-20-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
tert-Butanol / butyl alcohol	75-65-0	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,4-Dioxane	123-91-1	130	250	0.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Ethanol	64-17-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Notes:
All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)
BRL - Below Reportable Limit (non-detect)
SCO/RSCO - Unrestricted/Restricted Soil Cleanup Objective per 6 NYCRR 375, Tables 375-6.8(a) and (b) and □ NYSDEC Soil Cleanup Guidance Policy 51 Table 1
NS - No SCO/RSCO and/or CP-51 Guidance Value for this compound
Bold - Compound concentration exceeds the method detection limit
Shading - Compound concentration exceeds Unrestricted SCOs
J - Estimated concentration below the limits of quantitation
* - Data Reported from a Dilution
** - RSCO/CP-51 value represents total xylenes (includes o-xylene)

TABLE 2
Soil Analysis Summary - SVOCs
Method SW-846 8270

Semi-Volatile Organic Compounds	CAS No.	Commercial RSCO	Industrial RSCO	Unrestricted SCO	SB-1*	SB-2*	SB-3*	SB-4*	SB-6*	SB-16*	SB-3 (Surface)*	SB-6 (Surface)*	SB-9 (Surface)*	SB-11 (Surface)	SB-16 (Surface)*	SP-01	SP-02	
					12/06/16	12/06/16	12/06/16	12/06/16	12/06/16	12/07/16	12/06/16	12/06/16	12/06/16	12/07/16	12/07/16	12/07/16	12/07/16	
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
1,2,4-Trichlorobenzene	120-82-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
1,2-Dichlorobenzene	95-50-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
1,3-Dichlorobenzene	541-73-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
1,4-Dichlorobenzene	106-46-7	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
1-Methylnaphthalene	90-12-0	NS	NS	NS	0.194	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
2,4-Dinitrotoluene	121-14-2	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
2,6-Dinitrotoluene	606-20-2	NS	NS	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
2-Chloronaphthalene	91-58-7	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
2-Methylnaphthalene	91-57-6	NS	NS	0.41	0.14	J	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
2-Nitroaniline	88-74-4	NS	NS	0.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
3,3-Dichlorobenzidine	91-94-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
3-Nitroaniline	99-09-2	NS	NS	0.5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
4-Bromophenyl phenyl ether	101-55-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
4-Chloroaniline	106-47-8	NS	NS	0.22	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
4-Nitroaniline	100-01-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
Acenaphthene	83-32-9	500	1000	20	BRL	0.374	BRL	0.31	J	0.205	J	BRL	0.482	BRL	0.373	J	BRL	
Acenaphthylene	208-96-8	500	1000	100	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
Aniline	62-53-3	500	1000	0.33	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
Anthracene	120-12-7	500	1000	100	0.163	0.327	0.141	J	0.852	0.604	BRL	1.21	0.317	0.744	BRL	BRL	BRL	
Azobenzene/Diphenyldiazine	103-33-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
Benzidine	92-87-5	500	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	
Benzo (a) anthracene	56-55-3	5.6	11	1	0.705	0.769	0.371	1.46	1.59	0.458	J	3.44	0.945	2.57	0.0881	BRL	0.0619	J
Benzo (a) pyrene	50-32-8	1	1.1	1	0.714	0.645	0.297	1.43	1.51	1.51	1.51	3.12	0.894	2.46	0.0917	BRL	0.0755	J
Benzo (b) fluoranthene	205-99-2	5.6	11	1	0.768	0.703	0.33	1.43	1.73	1.73	BRL	3.57	1.09	2.84	0.0895	BRL	0.102	BRL
Benzo (g,h,i) perylene	191-24-2	500	1000	100	0.356	0.327	0.152	J	0.798	0.734	BRL	1.55	0.384	1.06	0.0527	J	0.0619	J
Benzo (k) fluoranthene	207-08-9	56	110	1.7	0.415	0.404	0.156	0.719	0.722	0.722	BRL	1.62	0.505	1.59	0.0574	J	0.0591	J
Benzoic acid	65-85-0	NS	NS	2.7	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzyl alcohol	100-51-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroethyl)ether	111-44-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Bis(2-ethylhexyl)phthalate	117-81-7	NS	NS	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Butyl benzyl phthalate	85-68-7	NS	NS	100	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Carbazole	86-74-8	NS	NS	NS	BRL	0.107	J	BRL	0.299	J	BRL	0.662	J	0.161	J	1.02	BRL	BRL
Chrysene	218-01-9	56	110	1	0.652	0.702	0.334	1.58	1.59	0.534	J	3.24	0.974	2.87	0.0953	BRL	0.0719	J
Dibenzo (a,h) anthracene	53-70-3	0.56	1.1	0.33	BRL	BRL	BRL	BRL	0.217	J	BRL	0.455	0.116	J	0.357	J	BRL	BRL
Dibenzofuran	132-64-9	NS	NS	NS	BRL	0.139	J	BRL	BRL	BRL	BRL	0.286	J	BRL	0.391	J	BRL	BRL
Diethyl phthalate	84-66-2	NS	NS	7.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Dimethyl phthalate	131-11-3	NS	NS	27	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Di-n-butyl phthalate	84-74-2	NS	NS	0.014	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Di-n-octyl phthalate	117-84-0	NS	NS	100	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Fluoranthene	206-44-0	500	1000	100	1.26	1.29	0.669	2.99	3.39	3.39	BRL	6.88	1.85	6.03	0.143	BRL	0.104	BRL
Fluorene	86-73-7	500	1000	30	BRL	0.259	BRL	0.44	0.228	J	BRL	0.449	0.12	J	0.411	BRL	BRL	BRL
Hexachlorobenzene	118-74-1	6	12	0.33	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Hexachlorocyclopentadiene	77-47-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Hexachloroethane	67-72-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Indeno (1,2,3-cd) pyrene	193-39-5	5.6	11	0.5	0.375	0.357	0.148	J	0.771	0.817	BRL	1.79	0.439	1.29	0.0527	J	0.0623	J
Isophorone	78-59-1	NS	NS	4.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	500	1000	12	BRL	0.135	J	BRL	0.32	J	BRL	BRL	BRL	0.339	J	BRL	BRL	BRL
Nitrobenzene	98-95-3	69	140	0.17	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
N-Nitrosodimethylamine	62-75-9	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
N-Nitrosodi-n-propylamine	621-64-7	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
N-Nitrosodiphenylamine	86-30-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Phenanthrene	85-01-8	500	1000	100	0.542	1.16	0.517	3.15	2.56	2.56	BRL	4.79	1.35	5.25	0.103	BRL	0.0631	J
Pyrene	129-00-0	500	1000	100	1.31	1.29	0.64	3.58	3.13	0.613	J	6.13	1.81	4.98	0.154	BRL	0.103	BRL
Pyridine	110-86-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Notes:
All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)
BRL - Below Reportable Limit (non-detect)
SCO/RSCO - Unrestricted/Restricted Soil Cleanup Objective per 6 NYCRR 375, Tables 375-6.8(a) and (b) and NYSDEC Soil Cleanup Guidance Policy 51 Table 1
NS - No SCO/RSCO and/or CP-51 Guidance Value for this compound
Bold - Compound concentration exceeds the method detection limit
Shading - Compound concentration exceeds the Unrestricted SCO
^ - Compound concentration exceeds the commercial and industrial RSCO for this compound
* - Data reported from a dilution
J - Estimated concentration below the limits of quantitation

TABLE 3

Soil Analysis Summary - PCBs
Method SW-846 8082

Phase II ESA

1712 Erie St, Utica, NY
AECC Project No. 16-319

Polychlorinated Biphenyls (PCBs)	CAS No.	Industrial RSCO	Unrestricted SCO	SB-1	SB-2	SB-3	SB-4	SB-6	SB-16	SB-3 (Surface)	SB-6 (Surface)	SB-9 (Surface)	SB-11 (Surface)	SB-16 (Surface)	SP-01	SP-02
				12/06/16	12/06/16	12/06/16	12/06/16	12/06/16	12/07/16	12/06/16	12/06/16	12/06/16	12/07/16	12/07/16	12/07/16	12/07/16
Aroclor - 1016	12674-11-2	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1221	11104-28-2	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1232	11141-16-5	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1242	53469-21-9	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1248	12672-29-6	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1254	11097-69-1	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1260	11096-82-5	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	0.0674	BRL	0.0157 J	BRL	BRL	BRL	BRL
Aroclor - 1262	37324-23-5	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1268	11100-14-4	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TOTAL PCBs	-	25	0.1	BRL	BRL	BRL	BRL	BRL	BRL	0.0674	BRL	0.0157	BRL	BRL	BRL	BRL

Notes:

All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)

BRL - Below Reportable Limit (non-detect)

SCO/RSCO - Unrestricted/Restricted Soil Cleanup Objective per 6 NYCRR 375, Tables 375-6.8(a) and (b)

NS - No SCO/RSCO and/or CP-51 Guidance Value for this compound

Bold - Compound concentration exceeds the method detection limit

J - Estimated concentration below the limits of quantitation

TABLE 4

Soil Analysis Summary - Metals
Method SW-846 6010

Phase II ESA
1712 Erie St, Utica, NY
AECC Project No. 16-319

Metal	CAS No.	Commercial RSCO	Industrial RSCO	Unrestricted SCO	SB-1	SB-2	SB-3	SB-4	SB-6	SB-16	SB-3 (Surface)	SB-6 (Surface)	SB-9 (Surface)	SB-11 (Surface)	SB-16 (Surface)	SP-01	SP-02
					12/06/16	12/06/16	12/06/16	12/06/16	12/06/16	12/07/16	12/06/16	12/06/16	12/06/16	12/07/16	12/07/16	12/07/16	12/07/16
Antimony	7440-36-0	NS	NS	12	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Arsenic	7440-38-2	16	16	13	4.23	9.73	7.34	9.01	115	6.49	19.0	16.8	8.63	7.42	4.60	4.15	2.64
Barium	7440-39-3	NS	NS	350	48.3	56.4	47.7	81.6	138	59.4	NA	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	590	2700	7.2	NA	NA	NA	NA	NA	NA	0.595	0.478	J	0.576	0.438	J	0.506
Cadmium	7440-43-9	9.3	60	2.5	0.197	J	0.751	0.317	J	0.481	1.18	0.391	J	0.472	J	0.326	J
Chromium	7440-47-3	400 / 1500*	800 / 6,800*	1 / 30*	9.53	14.1	13.6	13.6	34.4	13.3	14.8	11.4	12.0	11.4	6.95	12.7	7.41
Copper	7440-50-8	270	10000	50	NA	NA	NA	NA	NA	NA	47.4	43.1	27.9	27.6	14.6	25.7	11.7
Lead	7439-92-1	1000	3900	63	30.6	68.9	23.4	118	114	9.42	71.7	47.1	124	14.8	15.3	13.5	7.62
Nickel	7440-02-0	310	10000	30	NA	NA	NA	NA	NA	NA	18.8	16.0	14.8	15.8	8.08	16.7	8.52
Selenium	7782-49-2	1500	6800	3.9	0.632	J	0.629	J	0.561	J	1.26	4.80	1.28	J	1.52	J	1.69
Silver	7440-22-4	1500	6800	2	0.246	J	0.618	J	0.410	J	0.437	0.975	J	0.650	J	0.425	J
Thallium	7440-28-0	NS	NS	5	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Zinc	7440-66-6	10000	10000	109	NA	NA	NA	NA	NA	NA	101	67.7	100	49.9	28.2	46.6	28.5
Mercury	7439-97-6	2.8	5.7	0.18	0.112	0.658	0.324	0.460	0.537	0.0408	0.332	0.155	0.178	0.137	0.0698	0.0504	0.0577

Notes:

All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)

BRL - Below Reportable Limit (non-detect)

SCO/RSCO - Unrestricted/Restricted Soil Cleanup Objective per 6 NYCRR 375, Tables 375-6.8(a) and (b) and NYSDEC Soil Cleanup Guidance Policy 51 Table 1

* - The SCO for chromium is represented as "hexavalent chromium / trivalent chromium"

Shading - Compound concentration exceeds Unrestricted SCOs

Bold - Compound concentration exceeds commercial and industrial RSCOs

J - Estimated concentration below the limits of quantitation

NS - No 6 NYCRR 375 or NYSDEC Soil Cleanup Guidance Policy 51 SCO/RSCO

NA - Compound Not Analyzed

TABLE 5
Groundwater Analysis Summary - VOCs
Method SW-846 8260

Phase II ESA
1712 Erie St, Utica, NY
AECC Project No. 16-319

Volatile Organic Compounds	CAS No.	GWS	TW-1	TW-2 ^	TW-3	TW-4
			12/08/16	12/08/16	12/08/16	12/08/16
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	BRL	BRL	BRL	BRL
Acetone	67-64-1	50	BRL	BRL	BRL	BRL
Acrylonitrile	107-13-1	5	BRL	BRL	BRL	BRL
Benzene	71-43-2	1	BRL	BRL	BRL	BRL
Bromobenzene	108-86-1	5	BRL	BRL	BRL	BRL
Bromochloromethane	74-97-5	5	BRL	BRL	BRL	BRL
Bromodichloromethane	75-27-4	50	BRL	BRL	BRL	BRL
Bromoform	75-25-2	50	BRL	BRL	BRL	BRL
Bromomethane	74-83-9	5	BRL	BRL	BRL	BRL
2-Butanone (MEK)	78-93-3	50	BRL	BRL	BRL	BRL
n-Butylbenzene	104-51-8	5	BRL	BRL	BRL	BRL
sec-Butylbenzene	135-98-8	5	BRL	BRL	BRL	BRL
tert-Butylbenzene	98-06-6	5	BRL	BRL	BRL	BRL
Carbon disulfide	75-15-0	60	BRL	BRL	BRL	BRL
Carbon tetrachloride	56-23-5	5	BRL	BRL	BRL	BRL
Chlorobenzene	108-90-7	5	BRL	BRL	BRL	BRL
Chloroethane	75-00-3	5	BRL	BRL	BRL	BRL
Chloroform	67-66-3	7	BRL	BRL	BRL	BRL
Chloromethane	74-87-3	5	BRL	BRL	BRL	BRL
2-Chlorotoluene	95-49-8	5	BRL	BRL	BRL	BRL
4-Chlorotoluene	106-43-4	5	BRL	BRL	BRL	BRL
1,2-Dibromo-3-chloropropane	96-12-8	0.04	BRL	BRL	BRL	BRL
Dibromochloromethane	124-48-1	50	BRL	BRL	BRL	BRL
1,2-Dibromoethane (EDB)	106-93-4	0.0004	BRL	BRL	BRL	BRL
Dibromomethane	74-95-3	5	BRL	BRL	BRL	BRL
1,2-Dichlorobenzene	95-50-1	3	BRL	BRL	BRL	BRL
1,3-Dichlorobenzene	541-73-1	3	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	106-46-7	3	BRL	BRL	BRL	BRL
Dichlorodifluoromethane (Freon12)	75-71-8	5	BRL	BRL	BRL	BRL
1,1-Dichloroethane	75-34-3	5	BRL	BRL	1.95	BRL
1,2-Dichloroethane	107-06-2	0.6	BRL	BRL	BRL	BRL
1,1-Dichloroethene	75-35-4	5	BRL	BRL	BRL	BRL
cis-1,2-Dichloroethene	156-59-2	5	BRL	1250	BRL	BRL
trans-1,2-Dichloroethene	156-60-5	5	BRL	9	1.1	BRL
1,2-Dichloropropane	78-87-5	1	BRL	BRL	BRL	BRL
1,3-Dichloropropane	142-28-9	5	BRL	BRL	BRL	BRL
2,2-Dichloropropane	594-20-7	5	BRL	BRL	BRL	BRL
1,1-Dichloropropene	563-58-6	5	BRL	BRL	BRL	BRL
cis-1,3-Dichloropropene	10061-01-5	0.4	BRL	BRL	BRL	BRL
trans-1,3-Dichloropropene	10061-02-6	0.4	BRL	BRL	BRL	BRL
Ethylbenzene	100-41-4	5	BRL	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	0.5	BRL	BRL	BRL	BRL
2-Hexanone (MBK)	591-78-6	50	BRL	BRL	BRL	BRL
Isopropylbenzene	98-82-8	5	BRL	BRL	BRL	BRL
4-Isopropyltoluene	99-87-6	5	BRL	BRL	BRL	BRL
Methyl tert-butyl ether	1634-04-4	10	BRL	BRL	BRL	BRL
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	BRL	BRL	BRL	BRL
Methylene chloride	75-09-2	5	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	10	BRL	BRL	BRL	BRL
n-Propylbenzene	103-65-1	5	BRL	BRL	BRL	BRL
Styrene	100-42-5	5	BRL	BRL	BRL	BRL
1,1,1,2-Tetrachloroethane	630-20-6	5	BRL	BRL	BRL	BRL
1,1,2,2-Tetrachloroethane	79-34-5	5	BRL	BRL	BRL	BRL
Tetrachloroethene	127-18-4	5	BRL	BRL	BRL	BRL
Toluene	108-88-3	5	BRL	BRL	BRL	BRL
1,2,3-Trichlorobenzene	87-61-6	5, 10*	BRL	BRL	BRL	BRL
1,2,4-Trichlorobenzene	120-82-1	5, 10*	BRL	BRL	BRL	BRL
1,3,5-Trichlorobenzene	108-70-3	5, 10*	BRL	BRL	BRL	BRL
1,1,1-Trichloroethane	71-55-6	5	BRL	14.2	J	BRL
1,1,2-Trichloroethane	79-00-5	1	BRL	BRL	BRL	BRL
Trichloroethene	79-01-6	5	BRL	896	BRL	BRL
Trichlorofluoromethane (Freon 11)	75-69-4	5	BRL	BRL	BRL	BRL
1,2,3-Trichloropropane	96-18-4	0.04	BRL	BRL	BRL	BRL
1,2,4-Trimethylbenzene	95-63-6	5	BRL	BRL	BRL	BRL
1,3,5-Trimethylbenzene	108-67-8	5	BRL	BRL	BRL	BRL
Vinyl chloride	75-01-4	2	BRL	27.6	3.3	BRL
m,p-xylene	17960123-1	5	BRL	BRL	BRL	BRL
o-xylene	95-47-6	5	BRL	BRL	BRL	BRL
Tetrahydrofuran	109-99-9	50	BRL	BRL	BRL	BRL
Ethyl ether	60-29-7	NR	BRL	BRL	BRL	BRL
tert-amyl methyl ether	994-05-8	NS	BRL	BRL	BRL	BRL
Ethyl tert-butyl ether	637-92-3	NS	BRL	BRL	BRL	BRL
Di-isopropyl ether	108-20-3	NR	BRL	BRL	BRL	BRL
tert-Butanol / butyl alcohol	75-65-0	NR	BRL	BRL	BRL	BRL
1,4-Dioxane	123-91-1	NR	BRL	BRL	BRL	BRL
trans-1,4-Dichloro-2-butene	110-57-6	5	BRL	BRL	BRL	BRL
Ethanol	64-17-5	NS	BRL	BRL	BRL	BRL

Notes:

All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)

BRL - Below Reportable/Detectable Limit

GWS - Groundwater Guidance Value or Standard per NYSDEC Technical and Operational Guidance Series (1.1.1)

NR - No GWS for this individual compound

Bold - Compound concentration exceeds the method detection limit

Shading - Compound concentration exceeds applicable GWS

J - Estimated concentration below the limits of quantitation.

^ - Data reported from a dilution

* - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances

TABLE 6
Groundwater Analysis Summary - SVOCs
Method SW-846 8270

Phase II ESA
1712 Erie St, Utica, NY
AECC Project No. 16-319

Semi-Volatile Organic Compounds	CAS No.	GWS	TW-1	TW-2	TW-3	TW-4
			12/8/2016	12/8/2016	12/8/2016	12/8/2016
Acenaphthylene	208-96-8	NR	BRL	BRL	BRL	BRL
Aniline	62-53-3	5	BRL	BRL	BRL	BRL
Anthracene	120-12-7	50	BRL	BRL	BRL	BRL
Azobenzene/Diphenyldiazene	103-33-3	5	BRL	BRL	BRL	BRL
Benzenidine	92-87-5	5	BRL	BRL	BRL	BRL
Benzo (a) anthracene	56-55-3	0.002	BRL	BRL	BRL	BRL
Benzo (a) pyrene	50-32-8	NS	BRL	BRL	BRL	BRL
Benzo (b) fluoranthene	205-99-2	0.002	BRL	BRL	BRL	BRL
Benzo (g,h,i) perylene	191-24-2	NS	BRL	BRL	BRL	BRL
Benzo (k) fluoranthene	207-08-9	NS	BRL	BRL	BRL	BRL
Benzoic acid	65-85-0	NR	BRL	BRL	BRL	BRL
Benzyl alcohol	100-51-6	NR	BRL	BRL	BRL	BRL
Bis(2-chloroethoxy)methane	111-91-1	5	BRL	BRL	BRL	BRL
Bis(2-chloroethyl)ether	111-44-4	1	BRL	BRL	BRL	BRL
Bis(2-chloroisopropyl)ether	108-60-1	5	BRL	BRL	BRL	BRL
Bis(2-ethylhexyl)phthalate	117-81-7	5	BRL	BRL	BRL	BRL
4-Bromophenyl phenyl ether	101-55-3	NR	BRL	BRL	BRL	BRL
Butyl benzyl phthalate	85-68-7	50	BRL	BRL	BRL	BRL
Carbazole	86-74-8	NR	BRL	BRL	BRL	BRL
4-Chloroaniline	106-47-8	5	BRL	BRL	BRL	BRL
2-Chloronaphthalene	91-58-7	10	BRL	BRL	BRL	BRL
4-Chlorophenyl phenyl ether	7005-72-3	NA	BRL	BRL	BRL	BRL
Chrysene	218-01-9	0.002	BRL	BRL	BRL	BRL
Dibenzo (a,h) anthracene	53-70-3	NS	BRL	BRL	BRL	BRL
Dibenzofuran	132-64-9	NR	BRL	BRL	BRL	BRL
1,2-Dichlorobenzene	95-50-1	3	BRL	BRL	BRL	BRL
1,3-Dichlorobenzene	541-73-1	3	BRL	BRL	BRL	BRL
1,4-Dichlorobenzene	106-46-7	3	BRL	BRL	BRL	BRL
3,3'-Dichlorobenzidine	91-94-1	5	BRL	BRL	BRL	BRL
Diethyl phthalate	84-66-2	50	BRL	BRL	BRL	BRL
Dimethyl phthalate	131-11-3	50	BRL	BRL	BRL	BRL
Di-n-butyl phthalate	84-74-2	50	BRL	BRL	BRL	BRL
2,4-Dinitrotoluene	121-14-2	5	BRL	BRL	BRL	BRL
2,6-Dinitrotoluene	606-20-2	5	BRL	BRL	BRL	BRL
Di-n-octyl phthalate	117-84-0	50	BRL	BRL	BRL	BRL
Fluoranthene	206-44-0	50	BRL	BRL	BRL	BRL
Fluorene	86-73-7	50	BRL	BRL	BRL	BRL
Hexachlorobenzene	118-74-1	0.04	BRL	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	0.5	BRL	BRL	BRL	BRL
Hexachlorocyclopentadiene	77-47-4	5	BRL	BRL	BRL	BRL
Hexachloroethane	67-72-1	5	BRL	BRL	BRL	BRL
Indeno (1,2,3-cd) pyrene	193-39-5	0.002	BRL	BRL	BRL	BRL
Isophorone	78-59-1	50	BRL	BRL	BRL	BRL
2-Methylnaphthalene	91-57-6	NR	1.81	BRL	BRL	BRL
Naphthalene	91-20-3	10	BRL	BRL	BRL	BRL
2-Nitroaniline	88-74-4	5	BRL	BRL	BRL	BRL
3-Nitroaniline	99-09-2	5	BRL	BRL	BRL	BRL
4-Nitroaniline	100-01-6	5	BRL	BRL	BRL	BRL
Nitrobenzene	98-95-3	0.4	BRL	BRL	BRL	BRL
N-Nitrosodimethylamine	62-75-9	NR	BRL	BRL	BRL	BRL
N-Nitrosodi-n-propylamine	621-64-7	NR	BRL	BRL	BRL	BRL
N-Nitrosodiphenylamine	86-30-6	50	BRL	BRL	BRL	BRL
Phenanthrene	85-01-8	50	BRL	BRL	BRL	BRL
Pyrene	129-00-0	50	BRL	BRL	BRL	BRL
Pyridine	110-86-1	50	BRL	BRL	BRL	BRL
1,2,4-Trichlorobenzene	120-82-1	5, 10*	BRL	BRL	BRL	BRL
1-Methylnaphthalene	90-12-0	NR	2.63	BRL	BRL	BRL
1,2,4,5-Tetrachlorobenzene	95-94-3	5, 10*	BRL	BRL	BRL	BRL

Notes:

All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)

BRL - Below Reportable Limit (non-detect)

GWS - Groundwater Guidance Value or Standard per NYSDEC Technical and Operational Guidance Series (1.1.1)

NR - No GWS for this individual compound

Bold - Compound concentration exceeds the method detection limit

J - Estimated concentration below the limits of quantitation.

* - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances

TABLE 7

Groundwater Analysis Summary - Metals
Method SW-846 6010

Phase II ESA

1712 Erie St, Utica, NY
AECC Project No. 16-319

Metal	CAS No.	GWS	TW-1	TW-2	TW-3	TW-4
			12/08/16	12/08/16	12/08/16	12/08/16
Silver	7440-22-4	100	BRL	BRL	BRL	BRL
Arsenic	7440-38-2	50	7.6	1.8 J	15.3	3.6 J
Barium	7440-39-3	2000	92.6	117	389	204
Cadmium	7440-43-9	10	0.3 J	BRL	0.9 J	0.2 J
Chromium	7440-47-3	100	22.2	1.4 J	30.1	2 J
Lead	7439-92-1	50	40	BRL	339	BRL
Selenium	7782-49-2	20	BRL	BRL	BRL	BRL
Mercury*	7439-97-6	1.4	0.09 J	BRL	0.56	BRL

Notes:

All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)

BRL - Below Reportable/Detectable Limit

GWS - NYS Groundwater Effluent Limitations per NYSDEC Technical and Operational Guidance Series (1.1.1

Bold and Shading - Compound concentration exceeds applicable GWS

J - Estimated concentration below the limits of quantitation.

*Mercury analyzed by Method EPA 245.1/7470A

ATTACHMENT A

NYLD REPORTS

Date: 12/1/16Technician: Rob PennacchioCustomer: Asbestos & Environmental Consulting Corp.Site Address: 1712 Erie St. Utica, NYContact Person: DrewPhone: 607-280-2628

Phone: _____

Scope of Work: U.L- GPR for locations of possible UST's and clear for multiple boring locations.**Type of Service:**☐ *Leak Detection*☒ *Utility Location/GPR*☐ *Video Inspection*☐ *Infrastructure Assessment*☐ *Utility Mapping/AutoCAD*

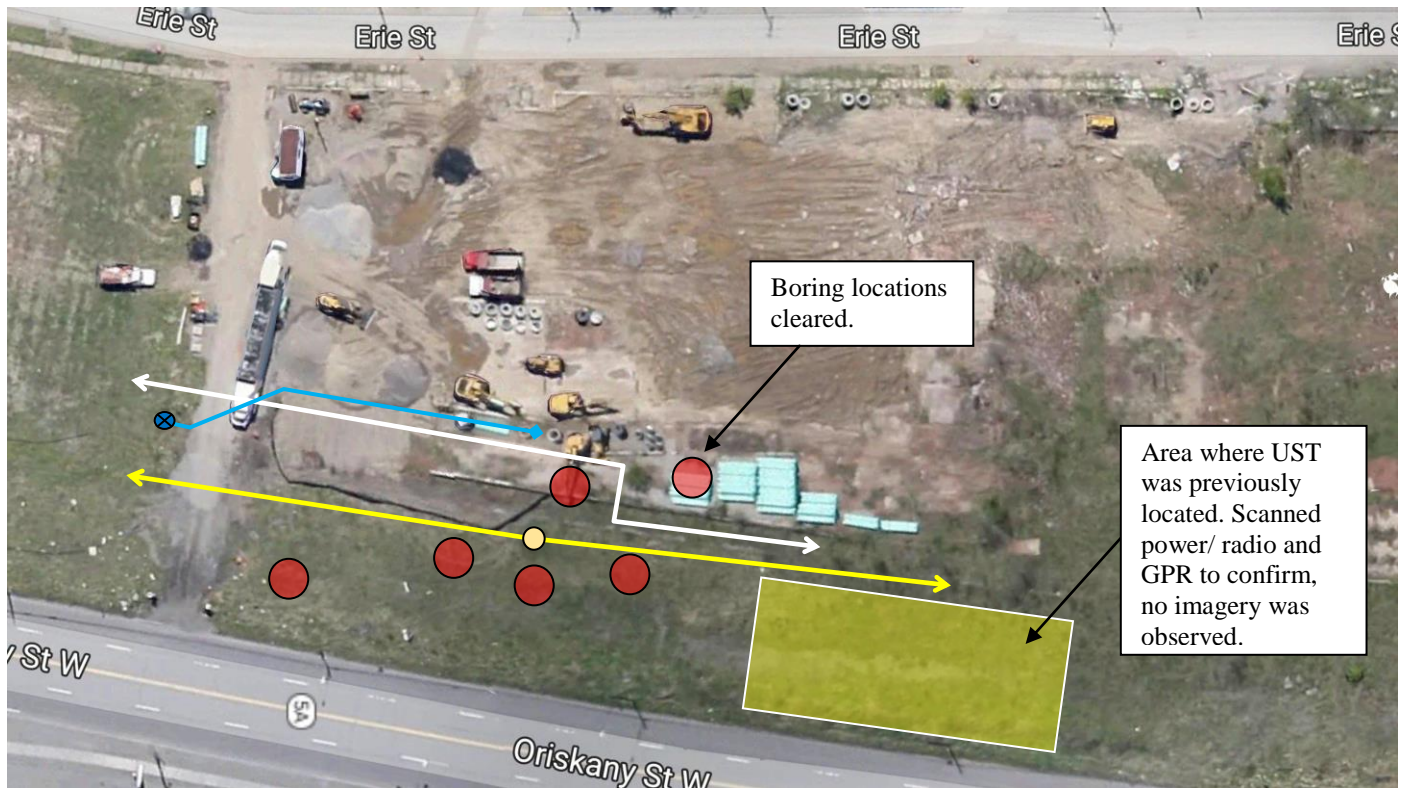
Type of Equipment Used☐ *Profiler EMP 400*☒ *RD8000*☐ *MetroTech Vivax vLocPro2*☐ *LC2500 Leak Correlator*☒ *Noggin 250 mHz*☐ *PosiTector UTG G3*☐ *S-30 Surveyor*☐ *Noggin 500 mHz*☐ *Video Inspection Camera*☐ *Rodder*☐ *Conquest 1000 mHz*☐ *Helium # Bottles*☐ *Leica Robotic Total Station*☐ *Leica GPS***Marking Used**☒ *Paint*☐ *Flags*☐ *Chalk*☐ *Updated existing maps
onsite*☐ *Other:*
_____**Instructions from Onsite Contact:** _____**Size of Pipe:** _____**Ground Cover/Weather Conditions:** Concrete, Asphalt, Soil/ Cloudy, Periods of Rain**Site Access/Safety Training:** N/A**Expiration Date:** N/A**Information Transfer**☒ *Information relayed on site to: Drew*☐ *Hand drawn map (forward
to office for digital remake)*☐ *All markings picked
up by surveyors*Travel Hours: 1.5, 1.0Onsite Hours: 8.0

NEW YORK LEAK DETECTION, INC.

Blue	Water
Red	Power
Orange	Communications
Yellow	Gas/Flammable Fuel
White	Unknown
Green	Storm/Sanitary

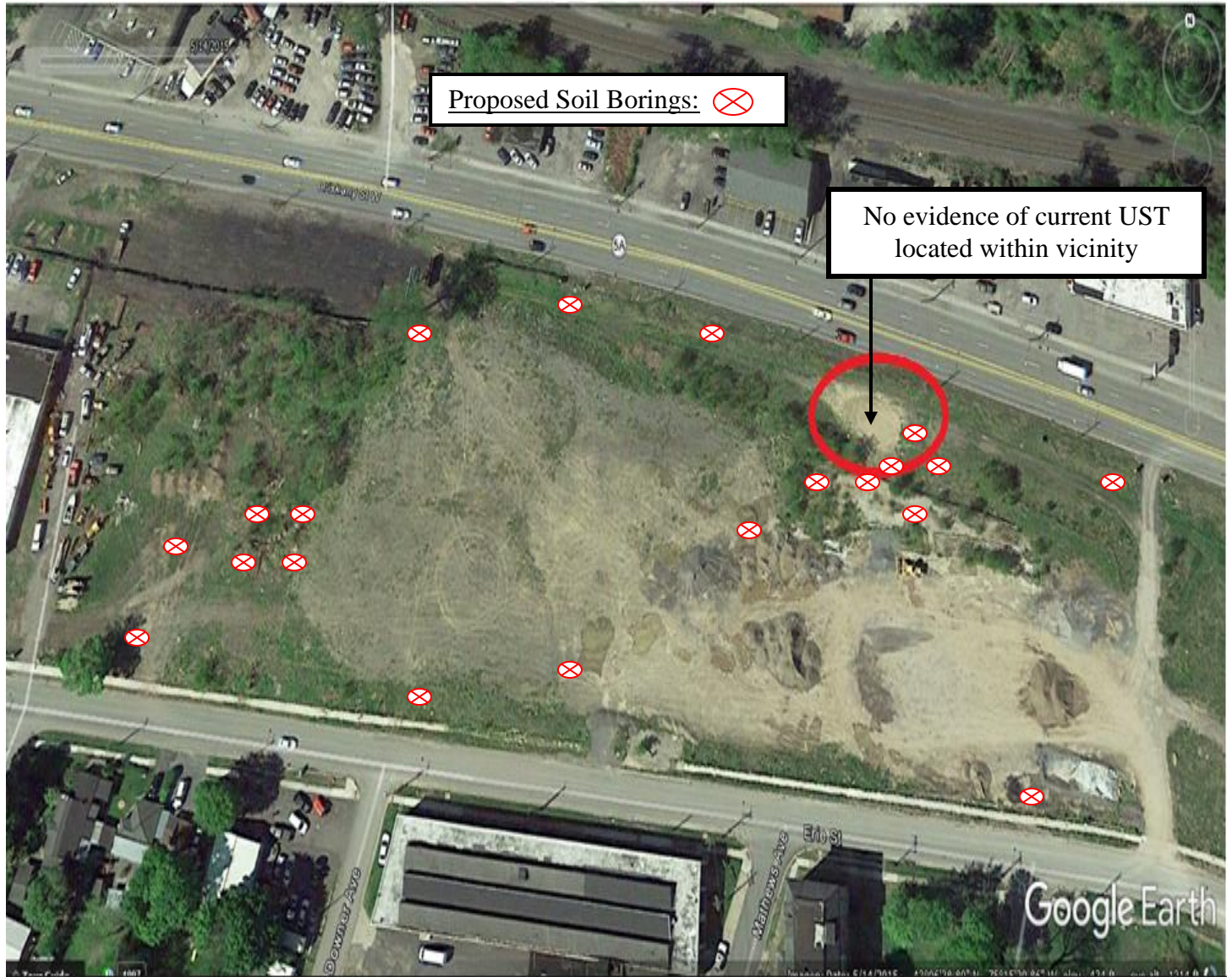
Notes/Testing Results:

1. Utilized RD8000 to locate steam, water and suspected sewer line.
2. Scanned the boring locations in a grid pattern to locate any unknown power or communication lines.
3. Utilized the GPR to scan the locations as instructed by Drew for the possible 20,000 gallon UST. He was informed that the UST had in fact already been removed according to the City of Utica and DEC records.



Date: 12/2/16 & 12/3/16Technician: Marcus Eriksson / Robert PennacchioCustomer: Asbestos & Environmental Consulting Corp.Site Address: 1712 Erie Street, Utica, NYContact Person: DrewPhone: 607-280-2628**Scope of Work:** Utility location services for approximately 20 proposed soil borings.**Type of Service:**☐ *Leak Detection*☒ *Utility Location/GPR*☐ *Video Inspection*☐ *Infrastructure Assessment*☐ *Utility Mapping/AutoCAD*

Type of Equipment Used☐ *Profiler EMP 400*☒ *RD8000*☐ *Locatable Sonde*☐ *LC2500 Leak Correlator*☒ *Noggin 250 mHz*☐ *PosiTector UTG G3*☐ *S-30 Surveyor*☐ *Noggin 500 mHz*☐ *Video Inspection Camera*☐ *Sonde*☐ *Conquest 1000 mHz*☐ *Helium # Bottles*☐ *Leica Robotic Total Station*☐ *Leica GPS***Marking Used**☒ *Paint*☒ *Flags*☐ *Chalk*☐ *Updated existing maps
onsite*☐ *Other:*
_____**Instructions from Onsite Contact:** Clear area approximately 15' x 15' surrounding proposed soil boring locations.**Size of Pipe:** N/A**Ground Cover/Weather Conditions:** Asphalt, Soil, Concrete/Sun and clouds, 40 degrees.**Site Access/Safety Training:** N/A**Expiration Date:** N/A**Information Transfer**☒ *Information relayed on site to: Drew*☐ *Hand drawn map (forward
to office for digital remake)*☐ *All markings picked
up by surveyors*



Key

Blue	Water
Red	Power
Orange	Communications
Yellow	Gas/Flammable Fuel
White	Unknown
Green	Storm/Sanitary

Notes/Testing Results: Utilized RD-8000 pipe and cable locator to directly connect to all available utility contact points in order to trace and mark. Each proposed soil boring was scanned using both passive power/radio scan and GPR imagery. Utilities were marked for location and depth on the surface. Proposed soil borings located on above map were cleared approximately 15' x 15'. Utility locations were marked on-site for depth and location.

ATTACHMENT B

AECC SOIL BORING LOGS AND GROUNDWATER SAMPLING FORMS



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-1
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110900371 -75.25709576 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1029	Monitoring Well? Temporary/Permanent: Temp Diameter: 1" PVC
Time Finish:	1055	Screened Interval: Riser Height: 0.60' Boring Depth:
		Ground Elevation:
		Water Level: 3.6' bgs

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1					(Poor Recovery) Tan, SAND, dry	
2			0.5'	0.0		
3						
4	▼				4-8' - Tan, SAND, wet	
5				0.0		
6			2.5'	(0.0)		
7						
8					8-10.5' - Tan, SAND, wet	
9				0.0		
10			4'	(0.0)		
11					10.5-12' - Tannish Brown, SAND, wet, slight odor	Sample SB-1 for VOCs, SVOCs, PCBs, and Metals
12			4"	(2.4)*	Tannish Brown, SAND, wet, slight odor*	
13					Refusal @ 12.5' bgs	
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: *Recovery of 'slough' from above that had fallen into borehole

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-2
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110948591 -75.25719875 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1101	Ground Elevation:
Time Finish:	1119	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3'	0.0	0-2' - Tan, SAND, dry	
2				(0.0)	2-4' - Dark Brown, coarse SAND, trace gravel, dry	
3						
4						
5			0.5'		(Poor Recovery) Dark Brown, gravelly SAND and gravel, wet	
6						
7						
8						
9			3'	0.0	Top Slough - Dark Brown, SAND, wet	Sample SB-2 for VOCs, SVOCs, PCBs, and Metals**
10				(0.0)	9-10' - Blackish Brown, medium and coarse SAND, some gravel, wet, odorous	
11					10-11' - Light Brown, SILTY CLAY	
12					Refusal @ 11' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES: **A Total Petroleum Hydrocarbons (TPH) sample was also collected from this location

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-3
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110857371 -75.25696918 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1138	Ground Elevation:
Time Finish:	1204	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3'	0.0	0-0.5' - Organic / Topsoil 0.5-2.5' - Dark Brown, coarse SAND, dry	Sample SB-3 Surface for SVOCs, PCBs, and Metals
2						
3					2.5-4' - Brown, medium SAND, some coarse sand, dry	
4						
5			0'		No Recovery (Two attempts)	
6						
7						
8						
9			3'	0.0	8-9.5' - Brown, medium and coarse SAND, dry	Sample SB-3 for VOCs, SVOCs, PCBs, and Metals
10				(0.1)	9.5-10.25' - Black, medium SAND, dry, odorous 10.25-11' - Tannish Brown, SILT, dry	
11					Refusal @ 11' bgs	
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-4
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110733811 -75.25631851 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1216	Monitoring Well? Temporary/Permanent: Temp Diameter: 1"PVC
Time Finish:	1240	Screened Interval: Riser Height: 0.40' Boring Depth:
		Ground Elevation:
		Water Level: 2.8' bgs

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3'	0.0	0-0.5' - Organic / Topsoil 0.5-4' - Brown, Yellow, and Red, BRICK and FILL material, dry	
2				(0.0)		
3						
4						
5			3'	0.0	4-5' - Brown, Yellow, and Red, BRICK and FILL material, dry 5-8' - Blackish Brown, coarse SAND, wet, odorous	
6				(0.0)*		Sample SB-4 for VOCs, SVOCs, PCBs, and Metals
7						
8						
9			4'	0.0	8-8.5' - Blackish Brown, coarse SAND, wet, odorous 8.5-12' - Light Reddish Brown, SILT, trace fine sand, trace gravel	
10				(0.0)		
11						
12					Refusal @ 12' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * Lack of PID response likely due to cold temperatures and type of contaminant (suspected #6 oil)



Soil Boring Log

Project #/Name:	16-319			BORING ID: SB-5
Client:	City of Utica			
Site Location:	1712 Erie St, Utica, NY			
Coordinates:	43.111098361	-75.2578146	NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG			Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)			Boring Diameter: 2"
Sample Type(s):	Direct Push, 4' Sections			Ground Elevation:
Monitoring Well?	Temporary/Permanent:	N/A	Diameter: N/A	Boring Depth:
	Screened Interval:	N/A	Riser Height: N/A	Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.75'	0.0	0-0.5' - Organic / Topsoil 0.5-4' - Dark Brown, Yellow, and Red, FILL material, dry	
2						
3						
4						
5			1.5'	0.0	4-6' - Dark Brown, Yellow, and Red, FILL material, dry	
6				(0.0)	6-7' - Blackish, medium SAND, moist, odorous	
7					7-8' - Light Brown, medium and fine SAND, moist	
8						
9			3*	0.0	8-9' - Light Brown, SILT, some fine sand, moist	
10					Refusal @ 9' bgs	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES: *Recovery included slough from above sample depth that had fallen into borehole

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-6
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.111273781 -75.25855849 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1320	Ground Elevation:
Time Finish:	1336	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2'	0.0	0-0.5' - Organic / Topsoil 0.5-3.5' - Dark Brown, FILL and coarse SAND, dry	Sample SB-6 Surface for SVOCs, PCBs, and Metals
2						
3						
4					3.5-4' - Grayish Brown, medium SAND, trace gravel, wet	
5			3.25'	0.0	4-5' - Brownish Gray, fine SAND, wet	Sample SB-6 for VOCs, SVOCs, PCBs, and Metals
6				(0.0)	5-7' - Gray, SILT and fine SAND, trace gravel, wet	
7					Refusal @ 7' bgs	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-7
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.111163161 -75.25873515 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1347	Ground Elevation:
Time Finish:	1410	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.25'	0.0	0-4' - Dark Brown and Red, BRICK and FILL material, dry	
2						
3						
4			1'		4-5' - Dark Brown and Red, BRICK and FILL material, dry	
5					Refusal @ 5' bgs (three attempted off-sets)	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-8
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110226801 -75.25663418 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1415	Ground Elevation:
Time Finish:	1441	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.75'	0.0	0-0.25' - Organic / Topsoil 0.25-4' - Brown, medium SAND, some stone and gravel pieces, dry	
2				(0.0)		
3						
4						
5			4'	(0.0)	4-8' - Light Brown, medium SAND, trace stone and gravel pieces, dry	
6						
7						
8						
9			2'	0.0	8-9.5' - Light Brown and Brown, medium SAND and stone and gravel pieces, dry	
10					Refusal @ 9.5' bgs	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-9
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110342411 -75.25742164 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/6/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1445	Ground Elevation:
Time Finish:	1521	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3.5'	0.0	0-0.5' - Organic / Topsoil 0.5-3' - Dark Brown and Red, FILL material, dry 3-4' - Dark Brown and Gray, coarse SAND and Fill material, dry	Sample SB-9 Surface for SVOCs, PCBs, and Metals
2						
3						
4			3.75'	0.0 (0.0) 0.0	4-5' - Dark Brown and Gray, coarse SAND, dry 5-6' - Light Brown, medium SAND, dry 6-7' - Light Brown, SILTY fine sand, dense, dry 7-8' - Light Brown, medium SAND, some gravel, dense, dry	
5						
6						
7						
8			0.5'		8-8.5' - Light Brown, medium and coarse SAND and gravel, dense, dry Refusal @ 8.5' bgs	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-10
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110583191 -75.25720169 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	0816	Ground Elevation:
Time Finish:	0856	Monitoring Well? Temporary/Permanent: Temp Diameter: 1" PVC Boring Depth:
		Screened Interval: Riser Height: 1.70' Water Level: 6.93' bgs

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3'	0.0	0-2.5' - Brown, coarse SAND and gravel, dry	
2						
3					2.5-4' - Red and Brown, BRICK and FILL material, dry	
4						
5			2.75'	0.0	4-7' - Red and Brown, BRICK and FILL material, dry	
6				(0.0)		
7					7-8' - Brown, medium SAND, some coarse sand, trace gravel, dry	
8						
9			3.25'	(4.5)	8-9' - Blackish, coarse SAND, wet, slight odor observed	
10				0.0	9-11' - Brown and Light Brown, fine SAND, wet	
11					11-12' - Tan, SILTY fine sand, some stone pieces, densely compacted	
12						
13					Refusal @ 12.5' bgs	
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-11
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110741361 -75.25760699 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	0859	Ground Elevation:
Time Finish:	0926	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.75'	0.0	0-0.25' - Organic / Topsoil 0.25-4' - Dark Brown, FILL-like material, coarse sand, and gravel, dry	Sample SB-11 Surface for SVOCs, PCBs, and Metals
2						
3						
4			2.75'	0.2 (0.9)	4-5' - Red, BRICK, dry 5-6' - Black, medium and coarse SAND, dry, odor 6-8' - Light Brown, medium and coarse SAND, trace gravel, dry	
5						
6						
7						
8			3.75'	0.0	8-11' - Light Brown, fine SAND, wet 11-12' - Light Brown and Tannish Brown, SILTY fine SAND, moist	
9						
10						
11						
12					Boring terminated at 12' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-12
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110517351 -75.25810509 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	0933	Ground Elevation:
Time Finish:	0956	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			1.25'	0.0	0-0.5' - Organic / Topsoil 0.5-4' - Brown, coarse SAND and gravel, dry	
2						
3						
4						
5			3.75'	0.0	4-5' - Red, BRICK and FILL material, dry 5-8' - Brown, medium SAND, some gravel, dry	
6						
7						
8					Refusal @ 8' bgs	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-13
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110532251 -75.2588995 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1000	Ground Elevation:
Time Finish:	1020	Monitoring Well? Temporary/Permanent: Temp Diameter: 1" PVC Boring Depth:
		Screened Interval: Riser Height: 1.75' Water Level: 5.73' bgs

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.75'	0.0	0-0.5' - Organic / Topsoil 0.5-4' - Brown, coarse SAND and FILL material, dry	
2						
3						
4						
5			1.75'	0.0	4-6' - Brown, coarse SAND and FILL material, dry	
6				(0.0)		
7					6-8' - Brown, medium SAND, moist	
8			1.75*	0.0	8-8.5' - Grayish Brown, fine SAND, some medium sand, trace gravel, wet	
9					Refusal @ 8.5' bgs	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES: *Some recovery of slough from above that had fallen into borehole

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-14
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110794031 -75.25834053 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1021	Ground Elevation:
Time Finish:	1041	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			1.5'	0.0	0-0.5' - Organic / Topsoil 0.5-4' - Brown, coarse SAND and gravel, dry	
2						
3						
4						
5			3.75'	(0.0)	4-6' - Brown and Red, coarse SAND, FILL, and BRICK material, dry	
6					6-8' - Brown, medium SAND, trace gravel, dry	
7						
8						
9			3'	0.0	8-12' - Brown, medium SAND, some fine sand, trace gravel, wet	
10						
11						
12					Boring terminated at 12' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-15
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110926371 -75.25902166 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1046	Ground Elevation:
Time Finish:	1104	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2'	0.0	0-0.5' - Organic / Topsoil 0.5-1.5' - Brown, medium SAND, some coarse sand, dry 1.5-4' - Gray, FILL material, including some concrete pieces, dry	
2						
3						
4						
5			3'	0.0	4-6' - Dark Gray and Red, BRICK and FILL material, dry	
6				(0.0)	6-8' - Brown, medium SAND, trace coarse sand, trace gravel, dry	
7						
8						
9			2.5'	0.0	8-9' - Brown, medium SAND, trace coarse sand, trace gravel, dry	
10				(0.0)	9-12' - Grayish Brown, medium SAND, wet	
11						
12					Boring terminated @ 12' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-16
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110851621 -75.25904218 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1106	Ground Elevation:
Time Finish:	1144	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			1.75'	0.0	0-0.25' - Organic / Topsoil 0.25-4' - Brown, FILL material, dry	Sample SB-16 Surface for SVOCs, PCBs, and Metals
2						
3						
4						
5			2.75'	0.0 (0.0)	4-5' - Brown, FILL material, dry 5-8' - Red and Brown, BRICK and FILL material, dry	
6						
7						
8						
9			2.25'	0.3 (3.6)	8-10' - Light Brown, medium SAND, some gravel, dry 10-12' - Blackish Green-Brown, medium SAND, some fine sand, trace gravel, wet, slight odor observed some oil-like sheen observed	Sample SB-16 for VOCs, SVOCs, PCBs, and Metals
10						
11						
12						
13			2.75'	0.0	12-13.5' - Greenish Brown, medium and fine SAND, wet, dense, odorous 13.5-15.5' - Greenish Light Brown, SILT, wet, dense, odorous some oil-like sheen observed Refusal @ 15.5' bgs	
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-17
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110903111 -75.25927576 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1152	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A
Time Finish:	1212	Screened Interval: N/A Riser Height: N/A
		Ground Elevation:
		Boring Depth:
		Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			0.75'	0.0	(Poor Recovery) Wood / Organic material	
2						
3						
4						
5			1.75'	0.0	4-8' - Black, Gray, and Red, BRICK, CONCRETE, and FILL material, dry	
6				(0.0)		
7						
8						
9			2.75**	0.0	8-10' - Brown, fine SAND, some medium sand, trace gravel, dry	
10				(0.0)	Refusal @ 10' bgs	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES: *Some recovery of slough from above that had fallen into borehole



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-18
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110917831 -75.25970109 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/16	Sample Type(s): Direct Push, 4' Sections
Time Start:	1215	Ground Elevation:
Time Finish:	1232	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			3.25'	0.0	0-4' - Black and Blackish-Gray, FILL material, concrete pieces, and coarse sand, dry	
2				(0.0)		
3						
4						
5			3.75'	0.0	4-5' - Blackish-Gray, FILL material, concrete pieces, and coarse sand, dry	
6				(0.0)	5-6' - Red, BRICK material, dry	
7					6-7' - Blackish-Brown, medium SAND, dry	
8					7-8' - Tannish Brown, medium SAND, trace gravel, dense, dry	
9					8-9.5' - Grayish Brown, medium SAND and fine sand, wet	
10			3.75'	0.0	9.5-11.75' - Light Brownish Tan, medium and fine SAND, wet	
11						
12					Refusal @ 11.75' bgs	
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).



Soil Boring Log

Project #/Name:	16-319	BORING ID: SB-19
Client:	City of Utica	
Site Location:	1712 Erie St, Utica, NY	
Coordinates:	43.110696401 -75.25981297 NAD 1983 (Conus)	Sheet: 1 of 1
Drilling Contractor:	NYEG	Logged By: DB
Drilling Method:	Pickup Truck Mounted Drill Rig (GeoProbe)	Boring Diameter: 2"
Date:	12/7/26	Sample Type(s): Direct Push, 4' Sections
Time Start:	1234	Ground Elevation:
Time Finish:	1248	Monitoring Well? Temporary/Permanent: N/A Diameter: N/A Boring Depth:
		Screened Interval: N/A Riser Height: N/A Water Level:

Depth (ft)	Sample Depth (ft)	Blow Count (per 6 inches)	Recovery (ft)	PID Response (ppmv)	MATERIALS: Color, size, range, MAIN COMPONENT, minor component(s), moisture content, structure, angularity, maximum grain size, odor, and geologic unit (if known)	Lab Sample ID (Depth)
1			2.5'	0.0	0-0.5' - Organic / Topsoil 0.5-3.5' - Brown and Dark Gray, FILL material, some coarse sand, dry	
2						
3						
4					3.5-4' - Brown, medium SAND, moist, dense, dry	
5			3.5'	0.0	4-6.25' - Brown, medium SAND, some fine sand, moist	
6					6.25-7.5' - Brownish Gray, medium SAND and gravel, dense	
7						
8					Refusal @ 7.5' bgs	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
 ▼ = observed water level

NOTES:

These soil boring logs were prepared in conjunction with an environmental investigation. The data represented shall not be used for any other purpose (ex - geotechnical assessment, etc.).

Low Flow Groundwater Sample Collection Record

Client: <u>City of Utica</u>	Date: <u>12/8/16</u>	Time: Start <u>0859</u> am/pm
Project No: <u>110-319</u>		Finish _____ am/pm
Site Location: <u>1712 Erie St, Utica, NY</u>		
Weather Conds: _____	Collector(s): <u>Dev Brenner</u>	

1. WATER LEVEL DATA: (measured from Top of Casing) riser height above grade = 0.60'
- a. Total Well Length 10.30' c. Length of Water Column 8' (a-b) Casing Diameter/Material 1" PVC
- b. Water Table Depth 4.42' d. Calculated System Volume (see back) 0.72 gal
- Purge minimum*

2. WELL PURGE DATA

a. Purge Method: Low Flow Peristaltic Pump

b. Acceptance Criteria defined (see workplan)

- | | | | |
|---------------|------------|------------|--------|
| - Temperature | 3% | -D.O. | 10% |
| - pH | ± 1.0 unit | - ORP | ± 10mV |
| - Sp. Cond. | 3% | - Drawdown | < 0.3' |

c. Field Testing Equipment used: _____ Make _____ Model _____ Serial Number _____

Swirl was reversed

Time (24hr)	Volume Remove (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0910	<u>BEGIN PURGE</u>									
0919	<u>visible Black dots in water (oil indicator)</u>									
0920	<u>1 gal +</u>							<u>350</u>		
0924	<u>~2 gal</u>	<u>slowing flow rate</u>		<u>(water remains turbid)</u>						
0927								<u>290</u>		
0930	<u>2+ gal</u>	<u>slowing flow rate</u>								
0931	<u>~2.5 gal</u>	<u>will further slow flow rate</u>						<u>230</u>		

d. Acceptance criteria pass/fail Yes No N/A

- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Has required volume been removed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has required turbidity been reached | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION: Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
-----------	----------------	-------------------	--------------	---------------	------

Comments _____

Signature _____ Date _____

AEEC Project # 16-319

[illegible]

Additional Notes:

Low Flow Groundwater Sample Collection Record

Client: <u>City of Utica</u>	Date: <u>12/8/16</u>	Time: Start <u>0829</u> <input checked="" type="radio"/> am/pm
Project No: <u>16-319</u>		Finish _____ am/pm
Site Location: <u>1712 Erie St, Utica, NY</u>		
Weather Conds: <u>30s, overcast</u>	Collector(s): <u>Dev Brenner</u>	

1. WATER LEVEL DATA: (measured from Top of Casing) Riser above grade height = ~~1.70~~ 1.70
- a. Total Well Length 12.70' (From Top of Riser) c. Length of Water Column 0 (a-b) Casing Diameter/Material 1" PVC
- b. Water Table Depth 8.62' (From Top of Riser) d. Calculated System Volume (see back) 1/2 gal

2. WELL PURGE DATA

a. Purge Method: Low Flow Peristaltic Pump

b. Acceptance Criteria defined (see workplan)

- | | | | |
|---------------|------------|------------|--------|
| - Temperature | 3% | - D.O. | 10% |
| - pH | ± 1.0 unit | - ORP | ± 10mV |
| - Sp. Cond. | 3% | - Drawdown | < 0.3' |

c. Field Testing Equipment used: Make Model Serial Number

* Switch was backwards

Time (24hr)	Volume Remove (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
0847	No production									
0854	Abandoning									
1017	Restart									
1018	Begin Purge									
1023	~1gal									
1026	Slowing flow rate and hooking up Horiba									

d. Acceptance criteria pass/fail Yes No N/A

Has required volume been removed ☐ ☐ ☐

Has required turbidity been reached ☐ ☐ ☐

Have parameters stabilized ☐ ☐ ☐

If no or N/A - Explain below.

(continued on back)

3. SAMPLE COLLECTION:

Method: Low Flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
-----------	----------------	-------------------	--------------	---------------	------

Comments

Signature _____ Date _____

72.2

[illegible]

Additional Notes:

Low Flow Groundwater Sample Collection Record

Client: <u>City of Utica</u>	Date: <u>12/8/16</u>	Time: Start <u>1053</u> am/pm
Project No: <u>110-319</u>		Finish: _____ am/pm
Site Location: <u>1712 Erie St, Utica, NY</u>		
Weather Conds: _____ Collector(s): <u>Deed Brenner</u>		

1. WATER LEVEL DATA: (measured from Top of Casing) river height above grade = 0.40'
- a. Total Well Length 12.10' c. Length of Water Column 8 (a-b) Casing Diameter/Material 1" PVC
- b. Water Table Depth 3.18' d. Calculated System Volume (see back) minimum page

2. WELL PURGE DATA

a. Purge Method: Low-flow Peristaltic Pump

b. Acceptance Criteria defined (see workplan)

- | | | | |
|---------------|----------------|------------|-------------|
| - Temperature | 3% | -D.O. | 10% |
| - pH | ± 1.0 unit | - ORP | ± 10 mV |
| - Sp. Cond. | 3% | - Drawdown | < 0.3' |

c. Field Testing Equipment used: Make Model Serial Number

Time (24hr)	Volume Remove (Liters)	Temp. (°C/F)	pH (SU)	Spec. Cond. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (feet)	Color/Odor
<u>1053</u>	<u>Begin Purge</u>									
<u>1106</u>	<u>~1 gal</u>			<u>BLACK/OIL</u>		<u>Present</u>	<u>(Visible and strong odor)</u>			
<u>1109</u>	<u>Slowing Flow Rate</u>									
<u>1113</u>	<u>Still</u>			<u>Some free product</u>						
				<u>Hummer will not be hooked up so instrument is not damaged</u>						
<u>1115</u>	<u>Collecting Sample</u>									

d. Acceptance criteria pass/fail

Has required volume been removed ☐ Yes ☐ No ☐ N/A

Has required turbidity been reached ☐ Yes ☐ No ☐ N/A

Have parameters stabilized ☐ Yes ☐ No ☐ N/A

If no or N/A - Explain below.

Drawdown 0.01'

(continued on back)

3. SAMPLE COLLECTION:

Method: Low-flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
-----------	----------------	-------------------	--------------	---------------	------

Comments

Signature _____ Date _____

[illegible]

Downloaded from <http://ajphaphysocpharm.sagepub.com/> at National Archive Publishing Co on June 11, 2015



Client: City of Utica Date: 12/8/16 Time: Start 1150 ☒ am/pm
Project No: 116-319 Finish _____ am/pm
Site Location: 1712 Erie St, Utica, NY
Weather Conds: Low 30s overcast, sunny Collector(s): David Brantner

1. WATER LEVEL DATA: (measured from Top of Casing)
- a. Total Well Length 10.10' c. Length of Water Column 8' (a-b) Casing Diameter/Material 1" PVC
- b. Water Table Depth 7.33' d. Calculated System Volume (see back) 0.33 gal

- a. Purge Method: Low-flow Peristaltic Pump

- | | | | |
|---------------|----------------|------------|-------------------|
| - Temperature | 3% | -D.O. | 10% |
| - pH | ± 1.0 unit | - ORP | $\pm 10\text{mV}$ |
| - Sp. Cond. | 3% | - Drawdown | $< 0.3'$ |

- [illegible]

- | d. Acceptance criteria pass/fail | Yes | No | N/A |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Has required volume been removed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has required turbidity been reached | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| If no or N/A - Explain below. | | | |

(continued on back)

3. SAMPLE COLLECTION: Method: Low-flow Peristaltic Pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
-----------	----------------	-------------------	--------------	---------------	------

Comments :

Signature _____ Date _____

AEC Project # 16-319

70-4

[illegible]

Additional Notes:

ATTACHMENT C

EUROFINS / SPECTRUM ANALYTICAL LABORATORY REPORTS

☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
20-Dec-16 16:05

Laboratory Report

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 1712 Erie St - Utica, NY
Project #: 16-319

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC29311-01	SB-1	Soil	06-Dec-16 10:55	07-Dec-16 09:20
SC29311-02	SB-2	Soil	06-Dec-16 11:20	07-Dec-16 09:20
SC29311-03	SB-3 (Surface)	Soil	06-Dec-16 11:42	07-Dec-16 09:20
SC29311-04	SB-3	Soil	06-Dec-16 12:01	07-Dec-16 09:20
SC29311-05	SB-4	Soil	06-Dec-16 12:36	07-Dec-16 09:20
SC29311-06	SB-6 (Surface)	Soil	06-Dec-16 13:25	07-Dec-16 09:20
SC29311-07	SB-6	Soil	06-Dec-16 13:36	07-Dec-16 09:20
SC29311-08	SB-9 (Surface)	Soil	06-Dec-16 14:57	07-Dec-16 09:20

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:



June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 64 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis is transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Spikes:

1621824-MS1 *Source: SC29311-02*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Cadmium
Lead
Silver

1621824-MSD1 *Source: SC29311-02*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Cadmium

SW846 7471B

Spikes:

1621825-MS1 *Source: SC29311-02*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Mercury

1621825-MSD1 *Source: SC29311-02*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Mercury

1621825-PS1 *Source: SC29311-02*

SW846 7471B

Spikes:

1621825-PS1 *Source: SC29311-02*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Mercury

SW846 8082A

Calibration:

SC29311-02

Internal standard area count (3261400000) is outside criteria of the associated CCAL (953700000) for 2,4,5,6-TC-M-Xylene (IS) [2C] (342%).

Samples:

SC29311-02 *SB-2*

The internal standard recovery on the confirmation column was outside of the acceptance limits. The results from the primary column were used.

2,4,5,6-TC-M-Xylene (IS) [2C]

SC29311-03 *SB-3 (Surface)*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SW846 8260C

Calibration:

1611066

Calibration:

1611066

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dioxane
2,2-Dichloropropane
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Isopropylbenzene
m,p-Xylene
Naphthalene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1621537-BLK1
1621537-BS1
1621537-BSD1
S610300-ICV1
S610586-CCV1
SB-1
SB-2
SB-3
SB-4
SB-6

Laboratory Control Samples:

1621537 BS/BSD

4-Isopropyltoluene percent recoveries (115/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-1
SB-2
SB-3
SB-4
SB-6

SW846 8260C

Laboratory Control Samples:

1621537 BS/BSD

Naphthalene percent recoveries (115/141) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-1
SB-2
SB-3
SB-4
SB-6

Samples:

S610586-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Tert-amyl methyl ether (-25.4%)

This affected the following samples:

1621537-BLK1
1621537-BS1
1621537-BSD1
SB-1
SB-2
SB-3
SB-4
SB-6

SW846 8270D

Calibration:

1610112

Analyte quantified by quadratic equation type calibration.

Benzidine
Benzoic acid

This affected the following samples:

S609272-ICV1

Laboratory Control Samples:

1621474 BS

Benzidine percent recovery 180 (40-140) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-1
SB-2
SB-3
SB-3 (Surface)
SB-4
SB-6
SB-6 (Surface)
SB-9 (Surface)

SW846 8270D

Laboratory Control Samples:

1621474 BS

Hexachlorocyclopentadiene percent recovery 29 (40-140) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-1
SB-2
SB-3
SB-3 (Surface)
SB-4
SB-6
SB-6 (Surface)
SB-9 (Surface)

Samples:

S610601-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Nitroaniline (27.6%)
Azobenzene/Diphenyldiazene (44.8%)
Bis(2-chloroisopropyl)ether (55.5%)
Bis(2-ethylhexyl)phthalate (26.9%)
Butyl benzyl phthalate (22.3%)
Di-n-octyl phthalate (39.4%)
Hexachlorocyclopentadiene (-48.0%)
Nitrobenzene (29.9%)
N-Nitrosodi-n-propylamine (28.0%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (-38.8%)
Benzoic acid (-27.2%)

This affected the following samples:

1621474-BLK1
1621474-BS1
1621474-BSD1

S610787-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Nitroaniline (23.5%)
4-Nitroaniline (27.2%)
Azobenzene/Diphenyldiazene (25.9%)
Benzo (b) fluoranthene (20.1%)
Bis(2-chloroisopropyl)ether (41.3%)
Hexachlorocyclopentadiene (-37.9%)
Nitrobenzene (28.2%)
N-Nitrosodi-n-propylamine (23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzoic acid (-31.0%)

SW846 8270D

Samples:

S610787-CCV1

This affected the following samples:

SB-1
SB-2
SB-3
SB-3 (Surface)
SB-4
SB-6
SB-6 (Surface)
SB-9 (Surface)

SC29311-01 *SB-1*

The Reporting Limit has been raised to account for matrix interference.

SC29311-02 *SB-2*

The Reporting Limit has been raised to account for matrix interference.

SC29311-03 *SB-3 (Surface)*

The Reporting Limit has been raised to account for matrix interference.

SC29311-04 *SB-3*

The Reporting Limit has been raised to account for matrix interference.

SC29311-05 *SB-4*

The Reporting Limit has been raised to account for matrix interference.

SC29311-06 *SB-6 (Surface)*

The Reporting Limit has been raised to account for matrix interference.

SC29311-07 *SB-6*

The Reporting Limit has been raised to account for matrix interference.

SC29311-08 *SB-9 (Surface)*

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2,4,6-Tribromophenol

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECC Environmental Consulting
Project: 1712 Erie St - Utica, NY / 16-319
Work Order: SC29311
Sample(s) received on: 12/7/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC29311-01

Client ID: SB-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.23		1.76	mg/kg	SW846 6010C
Barium	48.3		1.17	mg/kg	SW846 6010C
Cadmium	0.197	J	0.585	mg/kg	SW846 6010C
Chromium	9.53		1.17	mg/kg	SW846 6010C
Lead	30.6		1.76	mg/kg	SW846 6010C
Selenium	0.632	J	1.76	mg/kg	SW846 6010C
Silver	0.246	J	1.76	mg/kg	SW846 6010C
Mercury	0.112		0.0359	mg/kg	SW846 7471B
1-Methylnaphthalene	194	D	162	µg/kg	SW846 8270D
2-Methylnaphthalene	140	J, D	162	µg/kg	SW846 8270D
Anthracene	163	D	162	µg/kg	SW846 8270D
Benzo (a) anthracene	705	D	162	µg/kg	SW846 8270D
Benzo (a) pyrene	714	D	162	µg/kg	SW846 8270D
Benzo (b) fluoranthene	768	D	162	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	356	D	162	µg/kg	SW846 8270D
Benzo (k) fluoranthene	415	D	162	µg/kg	SW846 8270D
Chrysene	652	D	162	µg/kg	SW846 8270D
Fluoranthene	1260	D	162	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	375	D	162	µg/kg	SW846 8270D
Phenanthrene	542	D	162	µg/kg	SW846 8270D
Pyrene	1310	D	162	µg/kg	SW846 8270D

Lab ID: SC29311-02

Client ID: SB-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	9.73		1.72	mg/kg	SW846 6010C
Barium	56.4		1.14	mg/kg	SW846 6010C
Cadmium	0.751		0.572	mg/kg	SW846 6010C
Chromium	14.1		1.14	mg/kg	SW846 6010C
Lead	68.9		1.72	mg/kg	SW846 6010C
Selenium	0.629	J	1.72	mg/kg	SW846 6010C
Silver	0.618	J	1.72	mg/kg	SW846 6010C
Mercury	0.658		0.0357	mg/kg	SW846 7471B
Acetone	61.8	J	72.2	µg/kg	SW846 8260C
Acenaphthene	374	D	163	µg/kg	SW846 8270D
Anthracene	327	D	163	µg/kg	SW846 8270D
Benzo (a) anthracene	769	D	163	µg/kg	SW846 8270D
Benzo (a) pyrene	645	D	163	µg/kg	SW846 8270D
Benzo (b) fluoranthene	703	D	163	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	327	D	163	µg/kg	SW846 8270D
Benzo (k) fluoranthene	404	D	163	µg/kg	SW846 8270D
Carbazole	107	J, D	409	µg/kg	SW846 8270D
Chrysene	702	D	163	µg/kg	SW846 8270D
Dibenzofuran	139	J, D	409	µg/kg	SW846 8270D
Fluoranthene	1290	D	163	µg/kg	SW846 8270D
Fluorene	259	D	163	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	357	D	163	µg/kg	SW846 8270D
Naphthalene	135	J, D	163	µg/kg	SW846 8270D
Phenanthrene	1160	D	163	µg/kg	SW846 8270D
Pyrene	1290	D	163	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-03

Client ID: SB-3 (Surface)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	19.0		1.63	mg/kg	SW846 6010C
Beryllium	0.595		0.545	mg/kg	SW846 6010C
Cadmium	0.472	J	0.545	mg/kg	SW846 6010C
Chromium	14.8		1.09	mg/kg	SW846 6010C
Copper	47.4		1.09	mg/kg	SW846 6010C
Lead	71.7		1.63	mg/kg	SW846 6010C
Nickel	18.8		1.09	mg/kg	SW846 6010C
Selenium	1.52	J	1.63	mg/kg	SW846 6010C
Silver	0.425	J	1.63	mg/kg	SW846 6010C
Zinc	101		1.09	mg/kg	SW846 6010C
Mercury	0.332		0.0323	mg/kg	SW846 7471B
Aroclor-1260	67.4		21.6	µg/kg	SW846 8082A
Acenaphthene	482	D	392	µg/kg	SW846 8270D
Anthracene	1210	D	392	µg/kg	SW846 8270D
Benzo (a) anthracene	3440	D	392	µg/kg	SW846 8270D
Benzo (a) pyrene	3120	D	392	µg/kg	SW846 8270D
Benzo (b) fluoranthene	3570	D	392	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1550	D	392	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1620	D	392	µg/kg	SW846 8270D
Carbazole	662	J, D	982	µg/kg	SW846 8270D
Chrysene	3240	D	392	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	455	D	392	µg/kg	SW846 8270D
Dibenzofuran	286	J, D	982	µg/kg	SW846 8270D
Fluoranthene	6880	D	392	µg/kg	SW846 8270D
Fluorene	449	D	392	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1790	D	392	µg/kg	SW846 8270D
Phenanthrene	4790	D	392	µg/kg	SW846 8270D
Pyrene	6130	D	392	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-04

Client ID: SB-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	7.34		1.62	mg/kg	SW846 6010C
Barium	47.7		1.08	mg/kg	SW846 6010C
Cadmium	0.317	J	0.539	mg/kg	SW846 6010C
Chromium	13.6		1.08	mg/kg	SW846 6010C
Lead	23.4		1.62	mg/kg	SW846 6010C
Selenium	0.561	J	1.62	mg/kg	SW846 6010C
Silver	0.410	J	1.62	mg/kg	SW846 6010C
Mercury	0.324		0.0321	mg/kg	SW846 7471B
2-Butanone (MEK)	12.9		10.7	µg/kg	SW846 8260C
Acetone	65.0		53.7	µg/kg	SW846 8260C
Anthracene	141	J, D	153	µg/kg	SW846 8270D
Benzo (a) anthracene	371	D	153	µg/kg	SW846 8270D
Benzo (a) pyrene	297	D	153	µg/kg	SW846 8270D
Benzo (b) fluoranthene	330	D	153	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	152	J, D	153	µg/kg	SW846 8270D
Benzo (k) fluoranthene	156	D	153	µg/kg	SW846 8270D
Chrysene	334	D	153	µg/kg	SW846 8270D
Fluoranthene	669	D	153	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	148	J, D	153	µg/kg	SW846 8270D
Phenanthrene	517	D	153	µg/kg	SW846 8270D
Pyrene	640	D	153	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-05

Client ID: SB-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	9.01		1.82	mg/kg	SW846 6010C
Barium	81.6		1.22	mg/kg	SW846 6010C
Cadmium	0.481	J	0.608	mg/kg	SW846 6010C
Chromium	13.6		1.22	mg/kg	SW846 6010C
Lead	118		1.82	mg/kg	SW846 6010C
Selenium	1.26	J	1.82	mg/kg	SW846 6010C
Silver	0.437	J	1.82	mg/kg	SW846 6010C
Mercury	0.460		0.0337	mg/kg	SW846 7471B
Acetone	45.7	J	69.8	µg/kg	SW846 8260C
Acenaphthene	310	J, D	414	µg/kg	SW846 8270D
Anthracene	852	D	414	µg/kg	SW846 8270D
Benzo (a) anthracene	1460	D	414	µg/kg	SW846 8270D
Benzo (a) pyrene	1430	D	414	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1430	D	414	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	798	D	414	µg/kg	SW846 8270D
Benzo (k) fluoranthene	719	D	414	µg/kg	SW846 8270D
Chrysene	1580	D	414	µg/kg	SW846 8270D
Fluoranthene	2990	D	414	µg/kg	SW846 8270D
Fluorene	440	D	414	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	771	D	414	µg/kg	SW846 8270D
Naphthalene	320	J, D	414	µg/kg	SW846 8270D
Phenanthrene	3150	D	414	µg/kg	SW846 8270D
Pyrene	3580	D	414	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-06

Client ID: SB-6 (Surface)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	16.8		1.65	mg/kg	SW846 6010C
Beryllium	0.478	J	0.550	mg/kg	SW846 6010C
Cadmium	0.326	J	0.550	mg/kg	SW846 6010C
Chromium	11.4		1.10	mg/kg	SW846 6010C
Copper	43.1		1.10	mg/kg	SW846 6010C
Lead	47.1		1.65	mg/kg	SW846 6010C
Nickel	16.0		1.10	mg/kg	SW846 6010C
Selenium	1.69		1.65	mg/kg	SW846 6010C
Silver	0.423	J	1.65	mg/kg	SW846 6010C
Zinc	67.7		1.10	mg/kg	SW846 6010C
Mercury	0.155		0.0316	mg/kg	SW846 7471B
Anthracene	317	D	152	µg/kg	SW846 8270D
Benzo (a) anthracene	945	D	152	µg/kg	SW846 8270D
Benzo (a) pyrene	894	D	152	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1090	D	152	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	384	D	152	µg/kg	SW846 8270D
Benzo (k) fluoranthene	505	D	152	µg/kg	SW846 8270D
Carbazole	161	J, D	381	µg/kg	SW846 8270D
Chrysene	974	D	152	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	116	J, D	152	µg/kg	SW846 8270D
Fluoranthene	1850	D	152	µg/kg	SW846 8270D
Fluorene	120	J, D	152	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	439	D	152	µg/kg	SW846 8270D
Phenanthrene	1350	D	152	µg/kg	SW846 8270D
Pyrene	1810	D	152	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-07

Client ID: SB-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	115		2.84	mg/kg	SW846 6010C
Barium	138		1.89	mg/kg	SW846 6010C
Cadmium	1.18		0.947	mg/kg	SW846 6010C
Chromium	34.4		1.89	mg/kg	SW846 6010C
Lead	114		2.84	mg/kg	SW846 6010C
Selenium	4.80		2.84	mg/kg	SW846 6010C
Silver	0.975	J	2.84	mg/kg	SW846 6010C
Mercury	0.537		0.0545	mg/kg	SW846 7471B
cis-1,2-Dichloroethene	442		14.6	µg/kg	SW846 8260C
trans-1,2-Dichloroethene	58.7		14.6	µg/kg	SW846 8260C
Trichloroethene	391		14.6	µg/kg	SW846 8260C
Vinyl chloride	56.7		14.6	µg/kg	SW846 8260C
Acenaphthene	205	J, D	272	µg/kg	SW846 8270D
Anthracene	604	D	272	µg/kg	SW846 8270D
Benzo (a) anthracene	1590	D	272	µg/kg	SW846 8270D
Benzo (a) pyrene	1510	D	272	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1730	D	272	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	734	D	272	µg/kg	SW846 8270D
Benzo (k) fluoranthene	722	D	272	µg/kg	SW846 8270D
Carbazole	299	J, D	681	µg/kg	SW846 8270D
Chrysene	1590	D	272	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	217	J, D	272	µg/kg	SW846 8270D
Fluoranthene	3390	D	272	µg/kg	SW846 8270D
Fluorene	228	J, D	272	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	817	D	272	µg/kg	SW846 8270D
Phenanthrene	2560	D	272	µg/kg	SW846 8270D
Pyrene	3130	D	272	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC29311-08

Client ID: SB-9 (Surface)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	8.63		1.69	mg/kg	SW846 6010C
Beryllium	0.576		0.565	mg/kg	SW846 6010C
Cadmium	0.548	J	0.565	mg/kg	SW846 6010C
Chromium	12.0		1.13	mg/kg	SW846 6010C
Copper	27.9		1.13	mg/kg	SW846 6010C
Lead	124		1.69	mg/kg	SW846 6010C
Nickel	14.8		1.13	mg/kg	SW846 6010C
Selenium	0.988	J	1.69	mg/kg	SW846 6010C
Silver	0.373	J	1.69	mg/kg	SW846 6010C
Zinc	100		1.13	mg/kg	SW846 6010C
Mercury	0.178		0.0348	mg/kg	SW846 7471B
Aroclor-1260 [2C]	15.7	J	24.1	µg/kg	SW846 8082A
Acenaphthene	373	J, D	401	µg/kg	SW846 8270D
Anthracene	744	D	401	µg/kg	SW846 8270D
Benzo (a) anthracene	2570	D	401	µg/kg	SW846 8270D
Benzo (a) pyrene	2460	D	401	µg/kg	SW846 8270D
Benzo (b) fluoranthene	2840	D	401	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1060	D	401	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1590	D	401	µg/kg	SW846 8270D
Carbazole	1020	D	1000	µg/kg	SW846 8270D
Chrysene	2870	D	401	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	357	J, D	401	µg/kg	SW846 8270D
Dibenzofuran	391	J, D	1000	µg/kg	SW846 8270D
Fluoranthene	6030	D	401	µg/kg	SW846 8270D
Fluorene	411	D	401	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1290	D	401	µg/kg	SW846 8270D
Naphthalene	339	J, D	401	µg/kg	SW846 8270D
Phenanthrene	5250	D	401	µg/kg	SW846 8270D
Pyrene	4980	D	401	µg/kg	SW846 8270D

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

SB-1

SC29311-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 10:55

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			EEM	1621500	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 7.21 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.39	U	µg/kg dry	5.39	1.58	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	< 53.9	U	µg/kg dry	53.9	23.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.39	U	µg/kg dry	5.39	5.18	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.39	U	µg/kg dry	5.39	1.43	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.39	U	µg/kg dry	5.39	1.44	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.39	U	µg/kg dry	5.39	2.72	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.39	U	µg/kg dry	5.39	3.59	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.39	U	µg/kg dry	5.39	5.14	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.8	U	µg/kg dry	10.8	4.86	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.8	U	µg/kg dry	10.8	9.63	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.39	U	µg/kg dry	5.39	1.54	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.39	U	µg/kg dry	5.39	1.01	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.39	U	µg/kg dry	5.39	1.19	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.8	U	µg/kg dry	10.8	3.45	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.39	U	µg/kg dry	5.39	4.41	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.39	U	µg/kg dry	5.39	0.85	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.8	U	µg/kg dry	10.8	2.99	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.39	U	µg/kg dry	5.39	2.89	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.8	U	µg/kg dry	10.8	3.54	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.39	U	µg/kg dry	5.39	1.26	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.39	U	µg/kg dry	5.39	1.27	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.8	U	µg/kg dry	10.8	7.78	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.39	U	µg/kg dry	5.39	3.65	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.39	U	µg/kg dry	5.39	3.61	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.39	U	µg/kg dry	5.39	2.80	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.39	U	µg/kg dry	5.39	1.40	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.39	U	µg/kg dry	5.39	1.09	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.39	U	µg/kg dry	5.39	2.35	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.8	U	µg/kg dry	10.8	2.04	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.39	U	µg/kg dry	5.39	1.22	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.39	U	µg/kg dry	5.39	1.81	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.39	U	µg/kg dry	5.39	2.82	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.39	U	µg/kg dry	5.39	2.00	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.39	U	µg/kg dry	5.39	2.85	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.39	U	µg/kg dry	5.39	2.82	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.39	U	µg/kg dry	5.39	2.79	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.39	U	µg/kg dry	5.39	2.54	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.39	U	µg/kg dry	5.39	1.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.39	U	µg/kg dry	5.39	3.25	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.39	U	µg/kg dry	5.39	2.83	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-1

SC29311-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 10:55

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 7.21 g													
100-41-4	Ethylbenzene	< 5.39	U	µg/kg dry	5.39	0.85	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 5.39	U	µg/kg dry	5.39	2.70	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.8	U	µg/kg dry	10.8	8.56	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.39	U	µg/kg dry	5.39	1.06	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.39	U	µg/kg dry	5.39	1.11	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.39	U	µg/kg dry	5.39	1.98	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.8	U	µg/kg dry	10.8	4.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.8	U	µg/kg dry	10.8	2.40	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.39	U	µg/kg dry	5.39	3.21	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.39	U	µg/kg dry	5.39	0.73	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.39	U	µg/kg dry	5.39	1.08	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.39	U	µg/kg dry	5.39	4.58	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.39	U	µg/kg dry	5.39	4.56	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.39	U	µg/kg dry	5.39	1.84	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.39	U	µg/kg dry	5.39	1.75	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.39	U	µg/kg dry	5.39	2.01	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.39	U	µg/kg dry	5.39	3.97	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.39	U	µg/kg dry	5.39	1.69	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.39	U	µg/kg dry	5.39	1.68	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.39	U	µg/kg dry	5.39	3.91	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.39	U	µg/kg dry	5.39	1.47	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.39	U	µg/kg dry	5.39	2.90	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.39	U	µg/kg dry	5.39	4.04	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.39	U	µg/kg dry	5.39	1.31	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.39	U	µg/kg dry	5.39	0.89	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.39	U	µg/kg dry	5.39	1.82	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.8	U	µg/kg dry	10.8	1.08	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.39	U	µg/kg dry	5.39	1.51	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.8	U	µg/kg dry	10.8	6.18	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.39	U	µg/kg dry	5.39	4.88	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.39	U	µg/kg dry	5.39	1.80	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.39	U	µg/kg dry	5.39	2.90	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.39	U	µg/kg dry	5.39	1.00	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 53.9	U	µg/kg dry	53.9	35.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 108	U	µg/kg dry	108	93.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 26.9	U	µg/kg dry	26.9	12.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1080	U	µg/kg dry	1080	201	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	102			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	112			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	97			70-130 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-1

SC29311-01

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 10:55

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 407	U, D	µg/kg dry	407	123	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 804	U, D	µg/kg dry	804	111	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 407	U, D	µg/kg dry	407	102	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 804	U, D	µg/kg dry	804	99.6	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 804	U, D	µg/kg dry	804	106	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 804	U, D	µg/kg dry	804	101	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 804	U, D	µg/kg dry	804	116	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 407	U, D	µg/kg dry	407	95.7	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 407	U, D	µg/kg dry	407	104	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 407	U, D	µg/kg dry	407	107	2	"	"	"	"	"	X
78-59-1	Isophorone	< 407	U, D	µg/kg dry	407	104	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 804	U, D	µg/kg dry	804	103	2	"	"	"	"	"	X
86-74-8	Carbazole	< 407	U, D	µg/kg dry	407	106	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 804	U, D	µg/kg dry	804	193	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 162	U, D	µg/kg dry	162	97.5	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 407	U, D	µg/kg dry	407	118	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 407	U, D	µg/kg dry	407	101	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	140	J, D	µg/kg dry	162	113	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 407	U, D	µg/kg dry	407	147	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 804	U, D	µg/kg dry	804	103	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 804	U, D	µg/kg dry	804	135	2	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 162	U, D	µg/kg dry	162	109	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 804	U, D	µg/kg dry	804	94.9	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 407	U, D	µg/kg dry	407	99.6	2	"	"	"	"	"	X
83-32-9	Acenaphthene	< 162	U, D	µg/kg dry	162	108	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 804	U, D	µg/kg dry	804	145	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 407	U, D	µg/kg dry	407	105	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 407	U, D	µg/kg dry	407	122	2	"	"	"	"	"	X
86-73-7	Fluorene	< 162	U, D	µg/kg dry	162	101	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 804	U, D	µg/kg dry	804	107	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 804	U, D	µg/kg dry	804	98.0	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 407	U, D	µg/kg dry	407	160	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 804	U, D	µg/kg dry	804	112	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 804	U, D	µg/kg dry	804	99.8	2	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 804	U, D	µg/kg dry	804	99.9	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	194	D	µg/kg dry	162	101	2	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 407	U, D	µg/kg dry	407	94.9	2	"	"	"	"	"	X
85-01-8	Phenanthrene	542	D	µg/kg dry	162	98.0	2	"	"	"	"	"	X
120-12-7	Anthracene	163	D	µg/kg dry	162	106	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 804	U, D	µg/kg dry	804	99.8	2	"	"	"	"	"	X
206-44-0	Fluoranthene	1,260	D	µg/kg dry	162	91.1	2	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-1

SC29311-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 10:55

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 804	U, D	µg/kg dry	804	346	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	1,310	D	µg/kg dry	162	85.1	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 804	U, D	µg/kg dry	804	101	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 804	U, D	µg/kg dry	804	118	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	705	D	µg/kg dry	162	90.9	2	"	"	"	"	"	X
218-01-9	Chrysene	652	D	µg/kg dry	162	83.6	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 407	U, D	µg/kg dry	407	103	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 407	U, D	µg/kg dry	407	95.3	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 804	U, D	µg/kg dry	804	118	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	768	D	µg/kg dry	162	89.5	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	415	D	µg/kg dry	162	113	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	714	D	µg/kg dry	162	99.5	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	375	D	µg/kg dry	162	108	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 162	U, D	µg/kg dry	162	115	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	356	D	µg/kg dry	162	97.6	2	"	"	"	"	"	X
110-86-1	Pyridine	< 804	U, D	µg/kg dry	804	101	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 804	U, D	µg/kg dry	804	99.6	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 804	U, D	µg/kg dry	804	111	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	68			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	73			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	87			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	72			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	61			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.8	U	µg/kg dry	23.8	13.4	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 23.8	U	µg/kg dry	23.8	17.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8	U	µg/kg dry	23.8	17.6	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8	U	µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.8	U	µg/kg dry	23.8	14.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.8	U	µg/kg dry	23.8	10.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8	U	µg/kg dry	23.8	10.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8	U	µg/kg dry	23.8	18.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8	U	µg/kg dry	23.8	13.9	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-1

SC29311-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 10:55

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.246	J	mg/kg dry	1.76	0.184	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	4.23		mg/kg dry	1.76	0.466	1	"	"	"	"	"	X
7440-39-3	Barium	48.3		mg/kg dry	1.17	0.173	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	0.197	J	mg/kg dry	0.585	0.0295	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	9.53		mg/kg dry	1.17	0.151	1	"	"	"	"	"	X
7439-97-6	Mercury	0.112		mg/kg dry	0.0359	0.0113	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	30.6		mg/kg dry	1.76	0.541	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	0.632	J	mg/kg dry	1.76	0.467	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	81.5		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-2

SC29311-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:20

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

EEM

1621500

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.05 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.22	U	µg/kg dry	7.22	2.12	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	61.8	J	µg/kg dry	72.2	30.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.22	U	µg/kg dry	7.22	6.93	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.22	U	µg/kg dry	7.22	1.91	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.22	U	µg/kg dry	7.22	1.93	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.22	U	µg/kg dry	7.22	3.64	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.22	U	µg/kg dry	7.22	4.81	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.22	U	µg/kg dry	7.22	6.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.4	U	µg/kg dry	14.4	6.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 14.4	U	µg/kg dry	14.4	12.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.22	U	µg/kg dry	7.22	2.06	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.22	U	µg/kg dry	7.22	1.35	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.22	U	µg/kg dry	7.22	1.59	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.4	U	µg/kg dry	14.4	4.62	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.22	U	µg/kg dry	7.22	5.90	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.22	U	µg/kg dry	7.22	1.13	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.4	U	µg/kg dry	14.4	4.00	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.22	U	µg/kg dry	7.22	3.87	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.4	U	µg/kg dry	14.4	4.75	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.22	U	µg/kg dry	7.22	1.68	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.22	U	µg/kg dry	7.22	1.70	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.4	U	µg/kg dry	14.4	10.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.22	U	µg/kg dry	7.22	4.89	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.22	U	µg/kg dry	7.22	4.84	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.22	U	µg/kg dry	7.22	3.75	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.22	U	µg/kg dry	7.22	1.88	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.22	U	µg/kg dry	7.22	1.46	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.22	U	µg/kg dry	7.22	3.15	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.4	U	µg/kg dry	14.4	2.73	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.22	U	µg/kg dry	7.22	1.63	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.22	U	µg/kg dry	7.22	2.42	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.22	U	µg/kg dry	7.22	3.77	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.22	U	µg/kg dry	7.22	2.68	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.22	U	µg/kg dry	7.22	3.82	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.22	U	µg/kg dry	7.22	3.78	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.22	U	µg/kg dry	7.22	3.74	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.22	U	µg/kg dry	7.22	3.41	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.22	U	µg/kg dry	7.22	1.98	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.22	U	µg/kg dry	7.22	4.35	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.22	U	µg/kg dry	7.22	3.79	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-2

SC29311-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:20

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.05 g

100-41-4	Ethylbenzene	< 7.22	U	µg/kg dry	7.22	1.13	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 7.22	U	µg/kg dry	7.22	3.62	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.4	U	µg/kg dry	14.4	11.5	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.22	U	µg/kg dry	7.22	1.42	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.22	U	µg/kg dry	7.22	1.49	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.22	U	µg/kg dry	7.22	2.66	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.4	U	µg/kg dry	14.4	6.06	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 14.4	U	µg/kg dry	14.4	3.21	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.22	U	µg/kg dry	7.22	4.29	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.22	U	µg/kg dry	7.22	0.98	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.22	U	µg/kg dry	7.22	1.45	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.22	U	µg/kg dry	7.22	6.13	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.22	U	µg/kg dry	7.22	6.10	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.22	U	µg/kg dry	7.22	2.47	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.22	U	µg/kg dry	7.22	2.34	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.22	U	µg/kg dry	7.22	2.70	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.22	U	µg/kg dry	7.22	5.32	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.22	U	µg/kg dry	7.22	2.27	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.22	U	µg/kg dry	7.22	2.25	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.22	U	µg/kg dry	7.22	5.23	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.22	U	µg/kg dry	7.22	1.97	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.22	U	µg/kg dry	7.22	3.89	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.22	U	µg/kg dry	7.22	5.41	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.22	U	µg/kg dry	7.22	1.75	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.22	U	µg/kg dry	7.22	1.19	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.22	U	µg/kg dry	7.22	2.44	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.4	U	µg/kg dry	14.4	1.45	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.22	U	µg/kg dry	7.22	2.02	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.4	U	µg/kg dry	14.4	8.28	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.22	U	µg/kg dry	7.22	6.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.22	U	µg/kg dry	7.22	2.41	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.22	U	µg/kg dry	7.22	3.89	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.22	U	µg/kg dry	7.22	1.34	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 72.2	U	µg/kg dry	72.2	47.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 144	U	µg/kg dry	144	125	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 36.1	U	µg/kg dry	36.1	16.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1440	U	µg/kg dry	1440	269	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	114			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	97			70-130 %		"	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-2

SC29311-02

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:20

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals		R01											
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 409	U, D	µg/kg dry	409	124	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 808	U, D	µg/kg dry	808	112	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 409	U, D	µg/kg dry	409	103	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 808	U, D	µg/kg dry	808	100	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 808	U, D	µg/kg dry	808	106	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 808	U, D	µg/kg dry	808	101	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 808	U, D	µg/kg dry	808	117	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 409	U, D	µg/kg dry	409	96.2	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 409	U, D	µg/kg dry	409	105	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 409	U, D	µg/kg dry	409	108	2	"	"	"	"	"	X
78-59-1	Isophorone	< 409	U, D	µg/kg dry	409	104	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 808	U, D	µg/kg dry	808	104	2	"	"	"	"	"	X
86-74-8	Carbazole	107	J, D	µg/kg dry	409	107	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 808	U, D	µg/kg dry	808	194	2	"	"	"	"	"	X
91-20-3	Naphthalene	135	J, D	µg/kg dry	163	98.0	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 409	U, D	µg/kg dry	409	119	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 409	U, D	µg/kg dry	409	102	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 163	U, D	µg/kg dry	163	113	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 409	U, D	µg/kg dry	409	147	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 808	U, D	µg/kg dry	808	103	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 808	U, D	µg/kg dry	808	135	2	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 163	U, D	µg/kg dry	163	109	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 808	U, D	µg/kg dry	808	95.3	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 409	U, D	µg/kg dry	409	100	2	"	"	"	"	"	X
83-32-9	Acenaphthene	374	D	µg/kg dry	163	108	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 808	U, D	µg/kg dry	808	145	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	139	J, D	µg/kg dry	409	105	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 409	U, D	µg/kg dry	409	123	2	"	"	"	"	"	X
86-73-7	Fluorene	259	D	µg/kg dry	163	101	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 808	U, D	µg/kg dry	808	108	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 808	U, D	µg/kg dry	808	98.4	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 409	U, D	µg/kg dry	409	161	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 808	U, D	µg/kg dry	808	112	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 808	U, D	µg/kg dry	808	100	2	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 808	U, D	µg/kg dry	808	100	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 163	U, D	µg/kg dry	163	101	2	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 409	U, D	µg/kg dry	409	95.4	2	"	"	"	"	"	X
85-01-8	Phenanthrene	1,160	D	µg/kg dry	163	98.5	2	"	"	"	"	"	X
120-12-7	Anthracene	327	D	µg/kg dry	163	106	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 808	U, D	µg/kg dry	808	100	2	"	"	"	"	"	X
206-44-0	Fluoranthene	1,290	D	µg/kg dry	163	91.5	2	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-2

SC29311-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:20

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 808	U, D	µg/kg dry	808	348	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	1,290	D	µg/kg dry	163	85.5	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 808	U, D	µg/kg dry	808	101	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 808	U, D	µg/kg dry	808	118	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	769	D	µg/kg dry	163	91.3	2	"	"	"	"	"	X
218-01-9	Chrysene	702	D	µg/kg dry	163	84.0	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 409	U, D	µg/kg dry	409	103	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 409	U, D	µg/kg dry	409	95.8	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 808	U, D	µg/kg dry	808	119	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	703	D	µg/kg dry	163	89.9	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	404	D	µg/kg dry	163	114	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	645	D	µg/kg dry	163	100	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	357	D	µg/kg dry	163	109	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 163	U, D	µg/kg dry	163	116	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	327	D	µg/kg dry	163	98.1	2	"	"	"	"	"	X
110-86-1	Pyridine	< 808	U, D	µg/kg dry	808	102	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 808	U, D	µg/kg dry	808	100	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 808	U, D	µg/kg dry	808	112	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	96			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	108			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	116			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	103			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	97			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	84			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.1	U	µg/kg dry	23.1	13.1	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 23.1	U	µg/kg dry	23.1	17.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.1	U	µg/kg dry	23.1	17.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.1	U	µg/kg dry	23.1	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.1	U	µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.1	U	µg/kg dry	23.1	10.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.1	U	µg/kg dry	23.1	10.4	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1	U	µg/kg dry	23.1	17.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1	U	µg/kg dry	23.1	13.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	135			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	30			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-2

SC29311-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:20

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.618	J	mg/kg dry	1.72	0.180	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	9.73		mg/kg dry	1.72	0.455	1	"	"	"	"	"	X
7440-39-3	Barium	56.4		mg/kg dry	1.14	0.169	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	0.751		mg/kg dry	0.572	0.0288	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	14.1		mg/kg dry	1.14	0.148	1	"	"	"	"	"	X
7439-97-6	Mercury	0.658		mg/kg dry	0.0357	0.0112	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	68.9		mg/kg dry	1.72	0.528	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	0.629	J	mg/kg dry	1.72	0.456	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	81.5		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3 (Surface)

SC29311-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:42

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 982	U, D	µg/kg dry	982	298	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 1940	U, D	µg/kg dry	1940	268	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 982	U, D	µg/kg dry	982	247	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	240	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	256	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	244	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1940	U, D	µg/kg dry	1940	280	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 982	U, D	µg/kg dry	982	231	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 982	U, D	µg/kg dry	982	252	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 982	U, D	µg/kg dry	982	259	5	"	"	"	"	"	X
78-59-1	Isophorone	< 982	U, D	µg/kg dry	982	250	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1940	U, D	µg/kg dry	1940	249	5	"	"	"	"	"	X
86-74-8	Carbazole	662	J, D	µg/kg dry	982	256	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1940	U, D	µg/kg dry	1940	467	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 392	U, D	µg/kg dry	392	235	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 982	U, D	µg/kg dry	982	285	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 982	U, D	µg/kg dry	982	244	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 392	U, D	µg/kg dry	392	272	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 982	U, D	µg/kg dry	982	354	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1940	U, D	µg/kg dry	1940	248	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1940	U, D	µg/kg dry	1940	325	5	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 392	U, D	µg/kg dry	392	263	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1940	U, D	µg/kg dry	1940	229	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 982	U, D	µg/kg dry	982	240	5	"	"	"	"	"	X
83-32-9	Acenaphthene	482	D	µg/kg dry	392	260	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1940	U, D	µg/kg dry	1940	349	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	286	J, D	µg/kg dry	982	253	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 982	U, D	µg/kg dry	982	295	5	"	"	"	"	"	X
86-73-7	Fluorene	449	D	µg/kg dry	392	243	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	258	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1940	U, D	µg/kg dry	1940	236	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 982	U, D	µg/kg dry	982	387	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1940	U, D	µg/kg dry	1940	269	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1940	U, D	µg/kg dry	1940	241	5	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	241	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 392	U, D	µg/kg dry	392	243	5	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 982	U, D	µg/kg dry	982	229	5	"	"	"	"	"	X
85-01-8	Phenanthrene	4,790	D	µg/kg dry	392	237	5	"	"	"	"	"	X
120-12-7	Anthracene	1,210	D	µg/kg dry	392	255	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1940	U, D	µg/kg dry	1940	241	5	"	"	"	"	"	X
206-44-0	Fluoranthene	6,880	D	µg/kg dry	392	220	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3 (Surface)

SC29311-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:42

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 1940	U, D	µg/kg dry	1940	836	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	6,130	D	µg/kg dry	392	206	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1940	U, D	µg/kg dry	1940	243	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1940	U, D	µg/kg dry	1940	284	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	3,440	D	µg/kg dry	392	219	5	"	"	"	"	"	X
218-01-9	Chrysene	3,240	D	µg/kg dry	392	202	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 982	U, D	µg/kg dry	982	248	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 982	U, D	µg/kg dry	982	230	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1940	U, D	µg/kg dry	1940	285	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	3,570	D	µg/kg dry	392	216	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,620	D	µg/kg dry	392	273	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	3,120	D	µg/kg dry	392	240	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	1,790	D	µg/kg dry	392	261	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	455	D	µg/kg dry	392	278	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	1,550	D	µg/kg dry	392	236	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1940	U, D	µg/kg dry	1940	245	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1940	U, D	µg/kg dry	1940	240	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 1940	U, D	µg/kg dry	1940	268	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	59			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	58			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	70			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	69			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	45			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 21.6	U	µg/kg dry	21.6	12.2	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 21.6	U	µg/kg dry	21.6	15.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.6	U	µg/kg dry	21.6	16.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.6	U	µg/kg dry	21.6	13.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.6	U	µg/kg dry	21.6	13.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.6	U	µg/kg dry	21.6	9.77	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	67.4		µg/kg dry	21.6	9.74	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.6	U	µg/kg dry	21.6	16.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.6	U	µg/kg dry	21.6	12.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	200	S02		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	135			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3 (Surface)

SC29311-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 11:42

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.425	J	mg/kg dry	1.63	0.171	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	19.0		mg/kg dry	1.63	0.434	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.595		mg/kg dry	0.545	0.0327	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.472	J	mg/kg dry	0.545	0.0275	1	"	"	"	"	"	X
7440-47-3	Chromium	14.8		mg/kg dry	1.09	0.141	1	"	"	"	"	"	X
7440-50-8	Copper	47.4		mg/kg dry	1.09	0.202	1	"	"	"	"	"	X
7439-97-6	Mercury	0.332		mg/kg dry	0.0323	0.0102	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	18.8		mg/kg dry	1.09	0.201	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	71.7		mg/kg dry	1.63	0.504	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.45	U	mg/kg dry	5.45	0.441	1	"	"	"	"	"	X
7782-49-2	Selenium	1.52	J	mg/kg dry	1.63	0.435	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.27	U	mg/kg dry	3.27	0.737	1	"	"	"	"	"	X
7440-66-6	Zinc	101		mg/kg dry	1.09	0.998	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	84.7		%			1	SM2540 G (11) Mod.	12-Dec-16	12-Dec-16	EEM	1621693	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3

SC29311-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:01

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			EEM	1621500	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 6.32 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.37	U	µg/kg dry	5.37	1.58	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	65.0		µg/kg dry	53.7	22.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.37	U	µg/kg dry	5.37	5.16	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.37	U	µg/kg dry	5.37	1.42	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.37	U	µg/kg dry	5.37	1.43	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.37	U	µg/kg dry	5.37	2.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.37	U	µg/kg dry	5.37	3.58	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.37	U	µg/kg dry	5.37	5.13	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.7	U	µg/kg dry	10.7	4.85	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	12.9		µg/kg dry	10.7	9.61	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.37	U	µg/kg dry	5.37	1.54	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.37	U	µg/kg dry	5.37	1.00	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.37	U	µg/kg dry	5.37	1.19	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.7	U	µg/kg dry	10.7	3.44	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.37	U	µg/kg dry	5.37	4.39	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.37	U	µg/kg dry	5.37	0.84	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.7	U	µg/kg dry	10.7	2.98	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.37	U	µg/kg dry	5.37	2.88	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.7	U	µg/kg dry	10.7	3.54	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.37	U	µg/kg dry	5.37	1.25	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.37	U	µg/kg dry	5.37	1.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.7	U	µg/kg dry	10.7	7.76	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.37	U	µg/kg dry	5.37	3.64	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.37	U	µg/kg dry	5.37	3.60	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.37	U	µg/kg dry	5.37	2.79	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.40	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.09	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.37	U	µg/kg dry	5.37	2.35	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.7	U	µg/kg dry	10.7	2.04	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.37	U	µg/kg dry	5.37	1.21	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.37	U	µg/kg dry	5.37	1.81	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.37	U	µg/kg dry	5.37	2.81	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.37	U	µg/kg dry	5.37	1.99	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.37	U	µg/kg dry	5.37	2.85	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.82	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.78	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.37	U	µg/kg dry	5.37	2.54	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.37	U	µg/kg dry	5.37	1.47	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.37	U	µg/kg dry	5.37	3.24	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.37	U	µg/kg dry	5.37	2.82	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3

SC29311-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:01

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 6.32 g

100-41-4	Ethylbenzene	< 5.37	U	µg/kg dry	5.37	0.84	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 5.37	U	µg/kg dry	5.37	2.70	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.7	U	µg/kg dry	10.7	8.54	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.37	U	µg/kg dry	5.37	1.06	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.37	U	µg/kg dry	5.37	1.11	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.37	U	µg/kg dry	5.37	1.98	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.7	U	µg/kg dry	10.7	4.51	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.7	U	µg/kg dry	10.7	2.39	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.37	U	µg/kg dry	5.37	3.20	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.37	U	µg/kg dry	5.37	0.73	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.37	U	µg/kg dry	5.37	1.08	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.37	U	µg/kg dry	5.37	4.57	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.37	U	µg/kg dry	5.37	4.55	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.37	U	µg/kg dry	5.37	1.84	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.37	U	µg/kg dry	5.37	1.74	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	2.01	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	3.96	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.37	U	µg/kg dry	5.37	1.69	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.37	U	µg/kg dry	5.37	1.68	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.37	U	µg/kg dry	5.37	3.90	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.37	U	µg/kg dry	5.37	1.47	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.37	U	µg/kg dry	5.37	2.90	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.37	U	µg/kg dry	5.37	4.03	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.37	U	µg/kg dry	5.37	1.31	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.37	U	µg/kg dry	5.37	0.89	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.37	U	µg/kg dry	5.37	1.82	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.7	U	µg/kg dry	10.7	1.08	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.37	U	µg/kg dry	5.37	1.50	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.7	U	µg/kg dry	10.7	6.16	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.37	U	µg/kg dry	5.37	4.87	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.37	U	µg/kg dry	5.37	1.79	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.37	U	µg/kg dry	5.37	2.90	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.37	U	µg/kg dry	5.37	1.00	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 53.7	U	µg/kg dry	53.7	35.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 107	U	µg/kg dry	107	93.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 26.9	U	µg/kg dry	26.9	12.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1070	U	µg/kg dry	1070	200	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	114			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	98			70-130 %		"	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3

SC29311-04

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:01

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 382	U, D	µg/kg dry	382	116	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 755	U, D	µg/kg dry	755	104	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 382	U, D	µg/kg dry	382	96.1	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 755	U, D	µg/kg dry	755	93.5	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 755	U, D	µg/kg dry	755	99.5	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 755	U, D	µg/kg dry	755	94.8	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 755	U, D	µg/kg dry	755	109	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 382	U, D	µg/kg dry	382	89.9	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 382	U, D	µg/kg dry	382	98.1	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 382	U, D	µg/kg dry	382	101	2	"	"	"	"	"	X
78-59-1	Isophorone	< 382	U, D	µg/kg dry	382	97.2	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 755	U, D	µg/kg dry	755	97.0	2	"	"	"	"	"	X
86-74-8	Carbazole	< 382	U, D	µg/kg dry	382	99.7	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 755	U, D	µg/kg dry	755	181	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 153	U, D	µg/kg dry	153	91.6	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 382	U, D	µg/kg dry	382	111	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 382	U, D	µg/kg dry	382	94.9	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 153	U, D	µg/kg dry	153	106	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 382	U, D	µg/kg dry	382	138	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 755	U, D	µg/kg dry	755	96.5	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 755	U, D	µg/kg dry	755	127	2	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 153	U, D	µg/kg dry	153	102	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 755	U, D	µg/kg dry	755	89.1	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 382	U, D	µg/kg dry	382	93.5	2	"	"	"	"	"	X
83-32-9	Acenaphthene	< 153	U, D	µg/kg dry	153	101	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 755	U, D	µg/kg dry	755	136	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 382	U, D	µg/kg dry	382	98.4	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 382	U, D	µg/kg dry	382	115	2	"	"	"	"	"	X
86-73-7	Fluorene	< 153	U, D	µg/kg dry	153	94.5	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 755	U, D	µg/kg dry	755	101	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 755	U, D	µg/kg dry	755	92.0	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 382	U, D	µg/kg dry	382	150	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 755	U, D	µg/kg dry	755	105	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 755	U, D	µg/kg dry	755	93.8	2	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 755	U, D	µg/kg dry	755	93.8	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 153	U, D	µg/kg dry	153	94.6	2	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 382	U, D	µg/kg dry	382	89.1	2	"	"	"	"	"	X
85-01-8	Phenanthrene	517	D	µg/kg dry	153	92.0	2	"	"	"	"	"	X
120-12-7	Anthracene	141	J, D	µg/kg dry	153	99.3	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 755	U, D	µg/kg dry	755	93.7	2	"	"	"	"	"	X
206-44-0	Fluoranthene	669	D	µg/kg dry	153	85.5	2	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3

SC29311-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:01

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 755	U, D	µg/kg dry	755	325	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	640	D	µg/kg dry	153	79.9	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 755	U, D	µg/kg dry	755	94.5	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 755	U, D	µg/kg dry	755	110	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	371	D	µg/kg dry	153	85.3	2	"	"	"	"	"	X
218-01-9	Chrysene	334	D	µg/kg dry	153	78.5	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 382	U, D	µg/kg dry	382	96.5	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 382	U, D	µg/kg dry	382	89.5	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 755	U, D	µg/kg dry	755	111	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	330	D	µg/kg dry	153	84.1	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	156	D	µg/kg dry	153	106	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	297	D	µg/kg dry	153	93.4	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	148	J, D	µg/kg dry	153	101	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 153	U, D	µg/kg dry	153	108	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	152	J, D	µg/kg dry	153	91.7	2	"	"	"	"	"	X
110-86-1	Pyridine	< 755	U, D	µg/kg dry	755	95.3	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 755	U, D	µg/kg dry	755	93.5	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 755	U, D	µg/kg dry	755	104	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	55			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	58			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	58			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	51			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	41			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 21.7	U	µg/kg dry	21.7	12.3	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 21.7	U	µg/kg dry	21.7	16.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7	U	µg/kg dry	21.7	16.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7	U	µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7	U	µg/kg dry	21.7	13.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7	U	µg/kg dry	21.7	9.83	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7	U	µg/kg dry	21.7	9.81	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7	U	µg/kg dry	21.7	16.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7	U	µg/kg dry	21.7	12.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	135			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-3

SC29311-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:01

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.410	J	mg/kg dry	1.62	0.169	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	7.34		mg/kg dry	1.62	0.429	1	"	"	"	"	"	X
7440-39-3	Barium	47.7		mg/kg dry	1.08	0.160	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	0.317	J	mg/kg dry	0.539	0.0272	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	13.6		mg/kg dry	1.08	0.139	1	"	"	"	"	"	X
7439-97-6	Mercury	0.324		mg/kg dry	0.0321	0.0101	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	23.4		mg/kg dry	1.62	0.498	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	0.561	J	mg/kg dry	1.62	0.431	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	86.3		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-4

SC29311-05

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:36

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			EEM	1621500	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.42 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.98	U	µg/kg dry	6.98	2.05	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	45.7	J	µg/kg dry	69.8	29.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.98	U	µg/kg dry	6.98	6.71	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.98	U	µg/kg dry	6.98	1.85	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.98	U	µg/kg dry	6.98	1.86	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.98	U	µg/kg dry	6.98	3.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.98	U	µg/kg dry	6.98	4.65	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.98	U	µg/kg dry	6.98	6.66	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.0	U	µg/kg dry	14.0	6.30	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 14.0	U	µg/kg dry	14.0	12.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.98	U	µg/kg dry	6.98	2.00	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.98	U	µg/kg dry	6.98	1.30	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.98	U	µg/kg dry	6.98	1.54	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.0	U	µg/kg dry	14.0	4.47	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.98	U	µg/kg dry	6.98	5.71	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.98	U	µg/kg dry	6.98	1.10	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.0	U	µg/kg dry	14.0	3.87	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.98	U	µg/kg dry	6.98	3.75	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.0	U	µg/kg dry	14.0	4.59	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.98	U	µg/kg dry	6.98	1.63	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.98	U	µg/kg dry	6.98	1.64	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.0	U	µg/kg dry	14.0	10.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.98	U	µg/kg dry	6.98	4.73	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.98	U	µg/kg dry	6.98	4.68	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.98	U	µg/kg dry	6.98	3.63	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.98	U	µg/kg dry	6.98	1.81	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.98	U	µg/kg dry	6.98	1.42	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.98	U	µg/kg dry	6.98	3.05	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.0	U	µg/kg dry	14.0	2.64	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.98	U	µg/kg dry	6.98	1.58	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.98	U	µg/kg dry	6.98	2.34	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.98	U	µg/kg dry	6.98	3.65	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.98	U	µg/kg dry	6.98	2.59	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.98	U	µg/kg dry	6.98	3.70	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.98	U	µg/kg dry	6.98	3.66	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.98	U	µg/kg dry	6.98	3.61	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.98	U	µg/kg dry	6.98	3.29	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.98	U	µg/kg dry	6.98	1.91	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.98	U	µg/kg dry	6.98	4.21	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.98	U	µg/kg dry	6.98	3.66	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-4

SC29311-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.42 g

100-41-4	Ethylbenzene	< 6.98	U	µg/kg dry	6.98	1.10	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 6.98	U	µg/kg dry	6.98	3.50	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.0	U	µg/kg dry	14.0	11.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.98	U	µg/kg dry	6.98	1.37	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.98	U	µg/kg dry	6.98	1.44	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.98	U	µg/kg dry	6.98	2.57	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.0	U	µg/kg dry	14.0	5.86	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 14.0	U	µg/kg dry	14.0	3.10	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.98	U	µg/kg dry	6.98	4.15	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.98	U	µg/kg dry	6.98	0.95	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.98	U	µg/kg dry	6.98	1.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.98	U	µg/kg dry	6.98	5.93	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.98	U	µg/kg dry	6.98	5.90	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.98	U	µg/kg dry	6.98	2.39	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.98	U	µg/kg dry	6.98	2.26	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.98	U	µg/kg dry	6.98	2.61	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.98	U	µg/kg dry	6.98	5.14	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.98	U	µg/kg dry	6.98	2.19	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.98	U	µg/kg dry	6.98	2.18	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.98	U	µg/kg dry	6.98	5.06	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.98	U	µg/kg dry	6.98	1.90	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.98	U	µg/kg dry	6.98	3.76	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.98	U	µg/kg dry	6.98	5.23	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.98	U	µg/kg dry	6.98	1.70	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.98	U	µg/kg dry	6.98	1.15	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.98	U	µg/kg dry	6.98	2.36	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.0	U	µg/kg dry	14.0	1.40	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.98	U	µg/kg dry	6.98	1.95	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.0	U	µg/kg dry	14.0	8.00	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.98	U	µg/kg dry	6.98	6.32	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.98	U	µg/kg dry	6.98	2.33	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.98	U	µg/kg dry	6.98	3.76	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.98	U	µg/kg dry	6.98	1.30	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 69.8	U	µg/kg dry	69.8	45.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 140	U	µg/kg dry	140	121	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 34.9	U	µg/kg dry	34.9	15.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1400	U	µg/kg dry	1400	260	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	103			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	97			70-130 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-4

SC29311-05

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:36

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 1040	U, D	µg/kg dry	1040	314	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 2050	U, D	µg/kg dry	2050	283	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1040	U, D	µg/kg dry	1040	260	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2050	U, D	µg/kg dry	2050	254	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2050	U, D	µg/kg dry	2050	270	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2050	U, D	µg/kg dry	2050	257	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2050	U, D	µg/kg dry	2050	296	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1040	U, D	µg/kg dry	1040	244	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1040	U, D	µg/kg dry	1040	266	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1040	U, D	µg/kg dry	1040	273	5	"	"	"	"	"	X
78-59-1	Isophorone	< 1040	U, D	µg/kg dry	1040	264	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2050	U, D	µg/kg dry	2050	263	5	"	"	"	"	"	X
86-74-8	Carbazole	< 1040	U, D	µg/kg dry	1040	270	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 2050	U, D	µg/kg dry	2050	492	5	"	"	"	"	"	X
91-20-3	Naphthalene	320	J, D	µg/kg dry	414	248	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1040	U, D	µg/kg dry	1040	301	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1040	U, D	µg/kg dry	1040	257	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 414	U, D	µg/kg dry	414	287	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1040	U, D	µg/kg dry	1040	373	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2050	U, D	µg/kg dry	2050	262	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2050	U, D	µg/kg dry	2050	343	5	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 414	U, D	µg/kg dry	414	277	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2050	U, D	µg/kg dry	2050	242	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1040	U, D	µg/kg dry	1040	254	5	"	"	"	"	"	X
83-32-9	Acenaphthene	310	J, D	µg/kg dry	414	274	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2050	U, D	µg/kg dry	2050	368	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1040	U, D	µg/kg dry	1040	267	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1040	U, D	µg/kg dry	1040	311	5	"	"	"	"	"	X
86-73-7	Fluorene	440	D	µg/kg dry	414	256	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2050	U, D	µg/kg dry	2050	273	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2050	U, D	µg/kg dry	2050	249	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1040	U, D	µg/kg dry	1040	408	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2050	U, D	µg/kg dry	2050	284	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2050	U, D	µg/kg dry	2050	254	5	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 2050	U, D	µg/kg dry	2050	254	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 414	U, D	µg/kg dry	414	256	5	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 1040	U, D	µg/kg dry	1040	242	5	"	"	"	"	"	X
85-01-8	Phenanthrene	3,150	D	µg/kg dry	414	249	5	"	"	"	"	"	X
120-12-7	Anthracene	852	D	µg/kg dry	414	269	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2050	U, D	µg/kg dry	2050	254	5	"	"	"	"	"	X
206-44-0	Fluoranthene	2,990	D	µg/kg dry	414	232	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-4

SC29311-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 2050	U, D	µg/kg dry	2050	881	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	3,580	D	µg/kg dry	414	217	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2050	U, D	µg/kg dry	2050	256	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 2050	U, D	µg/kg dry	2050	300	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	1,460	D	µg/kg dry	414	231	5	"	"	"	"	"	X
218-01-9	Chrysene	1,580	D	µg/kg dry	414	213	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1040	U, D	µg/kg dry	1040	262	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1040	U, D	µg/kg dry	1040	243	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2050	U, D	µg/kg dry	2050	300	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,430	D	µg/kg dry	414	228	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	719	D	µg/kg dry	414	288	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,430	D	µg/kg dry	414	253	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	771	D	µg/kg dry	414	275	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 414	U, D	µg/kg dry	414	293	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	798	D	µg/kg dry	414	249	5	"	"	"	"	"	X
110-86-1	Pyridine	< 2050	U, D	µg/kg dry	2050	258	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2050	U, D	µg/kg dry	2050	254	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 2050	U, D	µg/kg dry	2050	283	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	68			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	78			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	87			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	77			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	82			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	64			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 24.5	U	µg/kg dry	24.5	13.9	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 24.5	U	µg/kg dry	24.5	18.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.5	U	µg/kg dry	24.5	18.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.5	U	µg/kg dry	24.5	14.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.5	U	µg/kg dry	24.5	15.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.5	U	µg/kg dry	24.5	11.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.5	U	µg/kg dry	24.5	11.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.5	U	µg/kg dry	24.5	18.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.5	U	µg/kg dry	24.5	14.3	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-4

SC29311-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 12:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.437	J	mg/kg dry	1.82	0.191	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	9.01		mg/kg dry	1.82	0.484	1	"	"	"	"	"	X
7440-39-3	Barium	81.6		mg/kg dry	1.22	0.180	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	0.481	J	mg/kg dry	0.608	0.0306	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	13.6		mg/kg dry	1.22	0.157	1	"	"	"	"	"	X
7439-97-6	Mercury	0.460		mg/kg dry	0.0337	0.0106	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	118		mg/kg dry	1.82	0.561	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	1.26	J	mg/kg dry	1.82	0.485	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	80.3		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6 (Surface)

SC29311-06

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:25

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 381	U, D	µg/kg dry	381	116	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 754	U, D	µg/kg dry	754	104	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 381	U, D	µg/kg dry	381	95.9	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 754	U, D	µg/kg dry	754	93.4	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 754	U, D	µg/kg dry	754	99.3	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 754	U, D	µg/kg dry	754	94.6	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 754	U, D	µg/kg dry	754	109	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 381	U, D	µg/kg dry	381	89.8	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 381	U, D	µg/kg dry	381	98.0	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 381	U, D	µg/kg dry	381	100	2	"	"	"	"	"	X
78-59-1	Isophorone	< 381	U, D	µg/kg dry	381	97.1	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 754	U, D	µg/kg dry	754	96.8	2	"	"	"	"	"	X
86-74-8	Carbazole	161	J, D	µg/kg dry	381	99.6	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 754	U, D	µg/kg dry	754	181	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 152	U, D	µg/kg dry	152	91.4	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 381	U, D	µg/kg dry	381	111	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 381	U, D	µg/kg dry	381	94.8	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 152	U, D	µg/kg dry	152	106	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 381	U, D	µg/kg dry	381	137	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 754	U, D	µg/kg dry	754	96.4	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 754	U, D	µg/kg dry	754	126	2	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 152	U, D	µg/kg dry	152	102	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 754	U, D	µg/kg dry	754	89.0	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 381	U, D	µg/kg dry	381	93.4	2	"	"	"	"	"	X
83-32-9	Acenaphthene	< 152	U, D	µg/kg dry	152	101	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 754	U, D	µg/kg dry	754	136	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 381	U, D	µg/kg dry	381	98.3	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 381	U, D	µg/kg dry	381	115	2	"	"	"	"	"	X
86-73-7	Fluorene	120	J, D	µg/kg dry	152	94.4	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 754	U, D	µg/kg dry	754	100	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 754	U, D	µg/kg dry	754	91.9	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 381	U, D	µg/kg dry	381	150	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 754	U, D	µg/kg dry	754	105	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 754	U, D	µg/kg dry	754	93.6	2	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 754	U, D	µg/kg dry	754	93.6	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 152	U, D	µg/kg dry	152	94.4	2	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 381	U, D	µg/kg dry	381	89.0	2	"	"	"	"	"	X
85-01-8	Phenanthrene	1,350	D	µg/kg dry	152	91.9	2	"	"	"	"	"	X
120-12-7	Anthracene	317	D	µg/kg dry	152	99.2	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 754	U, D	µg/kg dry	754	93.5	2	"	"	"	"	"	X
206-44-0	Fluoranthene	1,850	D	µg/kg dry	152	85.4	2	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6 (Surface)

SC29311-06

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:25

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals				R01									
92-87-5	Benzidine	< 754	U, D	µg/kg dry	754	325	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	1,810	D	µg/kg dry	152	79.8	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 754	U, D	µg/kg dry	754	94.4	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 754	U, D	µg/kg dry	754	110	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	945	D	µg/kg dry	152	85.2	2	"	"	"	"	"	X
218-01-9	Chrysene	974	D	µg/kg dry	152	78.4	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 381	U, D	µg/kg dry	381	96.4	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 381	U, D	µg/kg dry	381	89.4	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 754	U, D	µg/kg dry	754	111	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,090	D	µg/kg dry	152	83.9	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	505	D	µg/kg dry	152	106	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	894	D	µg/kg dry	152	93.3	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	439	D	µg/kg dry	152	101	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	116	J, D	µg/kg dry	152	108	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	384	D	µg/kg dry	152	91.5	2	"	"	"	"	"	X
110-86-1	Pyridine	< 754	U, D	µg/kg dry	754	95.1	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 754	U, D	µg/kg dry	754	93.4	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 754	U, D	µg/kg dry	754	104	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	58			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	67			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	73			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	63			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	65			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	47			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 22.9	U	µg/kg dry	22.9	13.0	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 22.9	U	µg/kg dry	22.9	16.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9	U	µg/kg dry	22.9	17.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9	U	µg/kg dry	22.9	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9	U	µg/kg dry	22.9	14.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9	U	µg/kg dry	22.9	10.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.9	U	µg/kg dry	22.9	10.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9	U	µg/kg dry	22.9	17.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9	U	µg/kg dry	22.9	13.4	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6 (Surface)

SC29311-06

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:25

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.423	J	mg/kg dry	1.65	0.173	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	16.8		mg/kg dry	1.65	0.438	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.478	J	mg/kg dry	0.550	0.0330	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.326	J	mg/kg dry	0.550	0.0277	1	"	"	"	"	"	X
7440-47-3	Chromium	11.4		mg/kg dry	1.10	0.142	1	"	"	"	"	"	X
7440-50-8	Copper	43.1		mg/kg dry	1.10	0.203	1	"	"	"	"	"	X
7439-97-6	Mercury	0.155		mg/kg dry	0.0316	0.0099	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	16.0		mg/kg dry	1.10	0.202	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	47.1		mg/kg dry	1.65	0.508	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.50	U	mg/kg dry	5.50	0.445	1	"	"	"	"	"	X
7782-49-2	Selenium	1.69		mg/kg dry	1.65	0.439	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.30	U	mg/kg dry	3.30	0.743	1	"	"	"	"	"	X
7440-66-6	Zinc	67.7		mg/kg dry	1.10	1.01	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	87.0		%			1	SM2540 G (11) Mod.	12-Dec-16	12-Dec-16	EEM	1621693	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6

SC29311-07

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:36

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			EEM	1621500	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.52 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 14.6	U	µg/kg dry	14.6	4.30	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	< 146	U	µg/kg dry	146	62.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 14.6	U	µg/kg dry	14.6	14.1	1	"	"	"	"	"	X
71-43-2	Benzene	< 14.6	U	µg/kg dry	14.6	3.88	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 14.6	U	µg/kg dry	14.6	3.91	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 14.6	U	µg/kg dry	14.6	7.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 14.6	U	µg/kg dry	14.6	9.76	1	"	"	"	"	"	X
75-25-2	Bromoform	< 14.6	U	µg/kg dry	14.6	14.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 29.3	U	µg/kg dry	29.3	13.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 29.3	U	µg/kg dry	29.3	26.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 14.6	U	µg/kg dry	14.6	4.19	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 14.6	U	µg/kg dry	14.6	2.74	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 14.6	U	µg/kg dry	14.6	3.23	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 29.3	U	µg/kg dry	29.3	9.37	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 14.6	U	µg/kg dry	14.6	12.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 14.6	U	µg/kg dry	14.6	2.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 29.3	U	µg/kg dry	29.3	8.12	1	"	"	"	"	"	X
67-66-3	Chloroform	< 14.6	U	µg/kg dry	14.6	7.86	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 29.3	U	µg/kg dry	29.3	9.63	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 14.6	U	µg/kg dry	14.6	3.41	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 14.6	U	µg/kg dry	14.6	3.44	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 29.3	U	µg/kg dry	29.3	21.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 14.6	U	µg/kg dry	14.6	9.92	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 14.6	U	µg/kg dry	14.6	9.82	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 14.6	U	µg/kg dry	14.6	7.61	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 14.6	U	µg/kg dry	14.6	3.81	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 14.6	U	µg/kg dry	14.6	2.97	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 14.6	U	µg/kg dry	14.6	6.40	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 29.3	U	µg/kg dry	29.3	5.55	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 14.6	U	µg/kg dry	14.6	3.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 14.6	U	µg/kg dry	14.6	4.92	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 14.6	U	µg/kg dry	14.6	7.66	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	442		µg/kg dry	14.6	5.43	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	58.7		µg/kg dry	14.6	7.76	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 14.6	U	µg/kg dry	14.6	7.67	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 14.6	U	µg/kg dry	14.6	7.58	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 14.6	U	µg/kg dry	14.6	6.91	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 14.6	U	µg/kg dry	14.6	4.01	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 14.6	U	µg/kg dry	14.6	8.83	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 14.6	U	µg/kg dry	14.6	7.68	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6

SC29311-07

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.52 g

100-41-4	Ethylbenzene	< 14.6	U	µg/kg dry	14.6	2.30	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 14.6	U	µg/kg dry	14.6	7.35	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 29.3	U	µg/kg dry	29.3	23.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 14.6	U	µg/kg dry	14.6	2.88	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 14.6	U	µg/kg dry	14.6	3.02	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 14.6	U	µg/kg dry	14.6	5.39	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 29.3	U	µg/kg dry	29.3	12.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 29.3	U	µg/kg dry	29.3	6.51	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 14.6	U	µg/kg dry	14.6	8.71	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 14.6	U	µg/kg dry	14.6	1.99	1	"	"	"	"	"	X
100-42-5	Styrene	< 14.6	U	µg/kg dry	14.6	2.94	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 14.6	U	µg/kg dry	14.6	12.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 14.6	U	µg/kg dry	14.6	12.4	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 14.6	U	µg/kg dry	14.6	5.01	1	"	"	"	"	"	X
108-88-3	Toluene	< 14.6	U	µg/kg dry	14.6	4.74	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 14.6	U	µg/kg dry	14.6	5.47	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 14.6	U	µg/kg dry	14.6	10.8	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 14.6	U	µg/kg dry	14.6	4.60	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 14.6	U	µg/kg dry	14.6	4.57	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 14.6	U	µg/kg dry	14.6	10.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	391		µg/kg dry	14.6	4.00	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 14.6	U	µg/kg dry	14.6	7.89	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 14.6	U	µg/kg dry	14.6	11.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 14.6	U	µg/kg dry	14.6	3.56	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 14.6	U	µg/kg dry	14.6	2.42	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	56.7		µg/kg dry	14.6	4.95	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 29.3	U	µg/kg dry	29.3	2.94	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 14.6	U	µg/kg dry	14.6	4.10	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 29.3	U	µg/kg dry	29.3	16.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 14.6	U	µg/kg dry	14.6	13.3	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 14.6	U	µg/kg dry	14.6	4.89	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 14.6	U	µg/kg dry	14.6	7.89	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 14.6	U	µg/kg dry	14.6	2.72	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 146	U	µg/kg dry	146	95.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 293	U	µg/kg dry	293	254	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 73.2	U	µg/kg dry	73.2	33.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 2930	U	µg/kg dry	2930	546	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	92			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	120			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	105			70-130 %		"	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6

SC29311-07

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:36

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 681	U, D	µg/kg dry	681	207	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 1350	U, D	µg/kg dry	1350	186	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 681	U, D	µg/kg dry	681	171	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1350	U, D	µg/kg dry	1350	167	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1350	U, D	µg/kg dry	1350	177	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1350	U, D	µg/kg dry	1350	169	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1350	U, D	µg/kg dry	1350	195	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 681	U, D	µg/kg dry	681	160	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 681	U, D	µg/kg dry	681	175	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 681	U, D	µg/kg dry	681	179	2	"	"	"	"	"	X
78-59-1	Isophorone	< 681	U, D	µg/kg dry	681	173	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1350	U, D	µg/kg dry	1350	173	2	"	"	"	"	"	X
86-74-8	Carbazole	299	J, D	µg/kg dry	681	178	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1350	U, D	µg/kg dry	1350	324	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 272	U, D	µg/kg dry	272	163	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 681	U, D	µg/kg dry	681	198	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 681	U, D	µg/kg dry	681	169	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 272	U, D	µg/kg dry	272	189	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 681	U, D	µg/kg dry	681	245	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1350	U, D	µg/kg dry	1350	172	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1350	U, D	µg/kg dry	1350	226	2	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 272	U, D	µg/kg dry	272	182	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1350	U, D	µg/kg dry	1350	159	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 681	U, D	µg/kg dry	681	167	2	"	"	"	"	"	X
83-32-9	Acenaphthene	205	J, D	µg/kg dry	272	180	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1350	U, D	µg/kg dry	1350	242	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 681	U, D	µg/kg dry	681	176	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 681	U, D	µg/kg dry	681	205	2	"	"	"	"	"	X
86-73-7	Fluorene	228	J, D	µg/kg dry	272	169	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1350	U, D	µg/kg dry	1350	179	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1350	U, D	µg/kg dry	1350	164	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 681	U, D	µg/kg dry	681	268	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1350	U, D	µg/kg dry	1350	187	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1350	U, D	µg/kg dry	1350	167	2	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 1350	U, D	µg/kg dry	1350	167	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 272	U, D	µg/kg dry	272	169	2	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 681	U, D	µg/kg dry	681	159	2	"	"	"	"	"	X
85-01-8	Phenanthrene	2,560	D	µg/kg dry	272	164	2	"	"	"	"	"	X
120-12-7	Anthracene	604	D	µg/kg dry	272	177	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1350	U, D	µg/kg dry	1350	167	2	"	"	"	"	"	X
206-44-0	Fluoranthene	3,390	D	µg/kg dry	272	152	2	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6

SC29311-07

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 1350	U, D	µg/kg dry	1350	579	2	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	3,130	D	µg/kg dry	272	143	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1350	U, D	µg/kg dry	1350	169	2	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1350	U, D	µg/kg dry	1350	197	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	1,590	D	µg/kg dry	272	152	2	"	"	"	"	"	X
218-01-9	Chrysene	1,590	D	µg/kg dry	272	140	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 681	U, D	µg/kg dry	681	172	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 681	U, D	µg/kg dry	681	160	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1350	U, D	µg/kg dry	1350	198	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	1,730	D	µg/kg dry	272	150	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	722	D	µg/kg dry	272	189	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	1,510	D	µg/kg dry	272	167	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	817	D	µg/kg dry	272	181	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	217	J, D	µg/kg dry	272	193	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	734	D	µg/kg dry	272	163	2	"	"	"	"	"	X
110-86-1	Pyridine	< 1350	U, D	µg/kg dry	1350	170	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1350	U, D	µg/kg dry	1350	167	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 1350	U, D	µg/kg dry	1350	186	2	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	58			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	63			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	68			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	64			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	58			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	49			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 40.4	U	µg/kg dry	40.4	22.8	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 40.4	U	µg/kg dry	40.4	29.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 40.4	U	µg/kg dry	40.4	30.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 40.4	U	µg/kg dry	40.4	24.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 40.4	U	µg/kg dry	40.4	25.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 40.4	U	µg/kg dry	40.4	18.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 40.4	U	µg/kg dry	40.4	18.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 40.4	U	µg/kg dry	40.4	31.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 40.4	U	µg/kg dry	40.4	23.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-6

SC29311-07

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 13:36

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.975	J	mg/kg dry	2.84	0.297	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	115		mg/kg dry	2.84	0.754	1	"	"	"	"	"	X
7440-39-3	Barium	138		mg/kg dry	1.89	0.280	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	1.18		mg/kg dry	0.947	0.0477	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	34.4		mg/kg dry	1.89	0.244	1	"	"	"	"	"	X
7439-97-6	Mercury	0.537		mg/kg dry	0.0545	0.0171	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	114		mg/kg dry	2.84	0.875	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	4.80		mg/kg dry	2.84	0.756	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	48.5		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-9 (Surface)

SC29311-08

Client Project

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 14:57

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 1000	U, D	µg/kg dry	1000	305	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 1990	U, D	µg/kg dry	1990	274	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1000	U, D	µg/kg dry	1000	253	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1990	U, D	µg/kg dry	1990	246	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1990	U, D	µg/kg dry	1990	262	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1990	U, D	µg/kg dry	1990	249	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1990	U, D	µg/kg dry	1990	287	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1000	U, D	µg/kg dry	1000	236	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1000	U, D	µg/kg dry	1000	258	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1000	U, D	µg/kg dry	1000	265	5	"	"	"	"	"	X
78-59-1	Isophorone	< 1000	U, D	µg/kg dry	1000	256	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1990	U, D	µg/kg dry	1990	255	5	"	"	"	"	"	X
86-74-8	Carbazole	1,020	D	µg/kg dry	1000	262	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1990	U, D	µg/kg dry	1990	477	5	"	"	"	"	"	X
91-20-3	Naphthalene	339	J, D	µg/kg dry	401	241	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1000	U, D	µg/kg dry	1000	292	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1000	U, D	µg/kg dry	1000	250	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 401	U, D	µg/kg dry	401	279	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1000	U, D	µg/kg dry	1000	362	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1990	U, D	µg/kg dry	1990	254	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1990	U, D	µg/kg dry	1990	333	5	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 401	U, D	µg/kg dry	401	269	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1990	U, D	µg/kg dry	1990	234	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1000	U, D	µg/kg dry	1000	246	5	"	"	"	"	"	X
83-32-9	Acenaphthene	373	J, D	µg/kg dry	401	266	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1990	U, D	µg/kg dry	1990	357	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	391	J, D	µg/kg dry	1000	259	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1000	U, D	µg/kg dry	1000	302	5	"	"	"	"	"	X
86-73-7	Fluorene	411	D	µg/kg dry	401	249	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1990	U, D	µg/kg dry	1990	264	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1990	U, D	µg/kg dry	1990	242	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1000	U, D	µg/kg dry	1000	396	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1990	U, D	µg/kg dry	1990	276	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1990	U, D	µg/kg dry	1990	247	5	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 1990	U, D	µg/kg dry	1990	247	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 401	U, D	µg/kg dry	401	249	5	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 1000	U, D	µg/kg dry	1000	234	5	"	"	"	"	"	X
85-01-8	Phenanthrene	5,250	D	µg/kg dry	401	242	5	"	"	"	"	"	X
120-12-7	Anthracene	744	D	µg/kg dry	401	261	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1990	U, D	µg/kg dry	1990	246	5	"	"	"	"	"	X
206-44-0	Fluoranthene	6,030	D	µg/kg dry	401	225	5	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-9 (Surface)

SC29311-08

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 14:57

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 1990	U, D	µg/kg dry	1990	855	5	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	4,980	D	µg/kg dry	401	210	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1990	U, D	µg/kg dry	1990	249	5	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 1990	U, D	µg/kg dry	1990	291	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	2,570	D	µg/kg dry	401	224	5	"	"	"	"	"	X
218-01-9	Chrysene	2,870	D	µg/kg dry	401	206	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1000	U, D	µg/kg dry	1000	254	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1000	U, D	µg/kg dry	1000	235	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1990	U, D	µg/kg dry	1990	291	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	2,840	D	µg/kg dry	401	221	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	1,590	D	µg/kg dry	401	279	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	2,460	D	µg/kg dry	401	246	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	1,290	D	µg/kg dry	401	267	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	357	J, D	µg/kg dry	401	284	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	1,060	D	µg/kg dry	401	241	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1990	U, D	µg/kg dry	1990	251	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1990	U, D	µg/kg dry	1990	246	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 1990	U, D	µg/kg dry	1990	274	5	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	34			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	36			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	40			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	37			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	41			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	26	SAC		30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 24.1	U	µg/kg dry	24.1	13.6	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 24.1	U	µg/kg dry	24.1	17.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.1	U	µg/kg dry	24.1	17.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.1	U	µg/kg dry	24.1	14.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.1	U	µg/kg dry	24.1	14.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.1	U	µg/kg dry	24.1	10.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	15.7	J	µg/kg dry	24.1	10.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.1	U	µg/kg dry	24.1	18.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.1	U	µg/kg dry	24.1	14.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-9 (Surface)

SC29311-08

Client Project #

16-319

Matrix

Soil

Collection Date/Time

06-Dec-16 14:57

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.373	J	mg/kg dry	1.69	0.177	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	8.63		mg/kg dry	1.69	0.450	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.576		mg/kg dry	0.565	0.0339	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.548	J	mg/kg dry	0.565	0.0285	1	"	"	"	"	"	X
7440-47-3	Chromium	12.0		mg/kg dry	1.13	0.146	1	"	"	"	"	"	X
7440-50-8	Copper	27.9		mg/kg dry	1.13	0.209	1	"	"	"	"	"	X
7439-97-6	Mercury	0.178		mg/kg dry	0.0348	0.0109	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	14.8		mg/kg dry	1.13	0.208	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	124		mg/kg dry	1.69	0.522	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.65	U	mg/kg dry	5.65	0.457	1	"	"	"	"	"	X
7782-49-2	Selenium	0.988	J	mg/kg dry	1.69	0.451	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.39	U	mg/kg dry	3.39	0.764	1	"	"	"	"	"	X
7440-66-6	Zinc	100		mg/kg dry	1.13	1.03	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	82.3		%			1	SM2540 G (11) Mod.	12-Dec-16	12-Dec-16	EEM	1621693	

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
Blank (1621537-BLK1)					Prepared & Analyzed: 09-Dec-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
Blank (1621537-BLK1)	Prepared & Analyzed: 09-Dec-16									
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		µg/kg		<i>50.0</i>		<i>99</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		µg/kg		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.0</i>		µg/kg		<i>50.0</i>		<i>110</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>47.9</i>		µg/kg		<i>50.0</i>		<i>96</i>	<i>70-130</i>		
LCS (1621537-BS1)	Prepared & Analyzed: 09-Dec-16									
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.8		µg/kg		20.0		84	70-130		
Acetone	18.2		µg/kg		20.0		91	70-130		
Acrylonitrile	18.2		µg/kg		20.0		91	70-130		
Benzene	17.3		µg/kg		20.0		86	70-130		
Bromobenzene	19.0		µg/kg		20.0		95	70-130		
Bromochloromethane	20.3		µg/kg		20.0		101	70-130		
Bromodichloromethane	16.8		µg/kg		20.0		84	70-130		
Bromoform	18.7		µg/kg		20.0		94	70-130		
Bromomethane	16.1		µg/kg		20.0		81	70-130		
2-Butanone (MEK)	19.1		µg/kg		20.0		95	70-130		
n-Butylbenzene	18.2		µg/kg		20.0		91	70-130		
sec-Butylbenzene	19.6		µg/kg		20.0		98	70-130		
tert-Butylbenzene	20.0		µg/kg		20.0		100	70-130		
Carbon disulfide	23.9		µg/kg		20.0		119	70-130		
Carbon tetrachloride	17.5		µg/kg		20.0		88	70-130		
Chlorobenzene	18.4		µg/kg		20.0		92	70-130		
Chloroethane	17.6		µg/kg		20.0		88	70-130		
Chloroform	16.8		µg/kg		20.0		84	70-130		
Chloromethane	16.1		µg/kg		20.0		80	70-130		
2-Chlorotoluene	16.3		µg/kg		20.0		82	70-130		
4-Chlorotoluene	19.6		µg/kg		20.0		98	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS (1621537-BS1)</u>	<u>Prepared & Analyzed: 09-Dec-16</u>									
1,2-Dibromo-3-chloropropane	18.0		µg/kg		20.0		90	70-130		
Dibromochloromethane	16.7		µg/kg		20.0		84	70-130		
1,2-Dibromoethane (EDB)	18.6		µg/kg		20.0		93	70-130		
Dibromomethane	17.1		µg/kg		20.0		86	70-130		
1,2-Dichlorobenzene	18.5		µg/kg		20.0		92	70-130		
1,3-Dichlorobenzene	20.9		µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	18.3		µg/kg		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	23.0		µg/kg		20.0		115	70-130		
1,1-Dichloroethane	16.9		µg/kg		20.0		85	70-130		
1,2-Dichloroethane	16.6		µg/kg		20.0		83	70-130		
1,1-Dichloroethene	17.7		µg/kg		20.0		88	70-130		
cis-1,2-Dichloroethene	17.8		µg/kg		20.0		89	70-130		
trans-1,2-Dichloroethene	17.4		µg/kg		20.0		87	70-130		
1,2-Dichloropropane	16.3		µg/kg		20.0		81	70-130		
1,3-Dichloropropane	16.8		µg/kg		20.0		84	70-130		
2,2-Dichloropropane	19.6		µg/kg		20.0		98	70-130		
1,1-Dichloropropene	16.4		µg/kg		20.0		82	70-130		
cis-1,3-Dichloropropene	16.7		µg/kg		20.0		84	70-130		
trans-1,3-Dichloropropene	16.5		µg/kg		20.0		82	70-130		
Ethylbenzene	17.5		µg/kg		20.0		88	70-130		
Hexachlorobutadiene	18.8		µg/kg		20.0		94	70-130		
2-Hexanone (MBK)	16.7		µg/kg		20.0		84	70-130		
Isopropylbenzene	19.7		µg/kg		20.0		98	70-130		
4-Isopropyltoluene	23.1		µg/kg		20.0		115	70-130		
Methyl tert-butyl ether	17.9		µg/kg		20.0		89	70-130		
4-Methyl-2-pentanone (MIBK)	16.4		µg/kg		20.0		82	70-130		
Methylene chloride	20.4		µg/kg		20.0		102	70-130		
Naphthalene	23.0		µg/kg		20.0		115	70-130		
n-Propylbenzene	19.3		µg/kg		20.0		97	70-130		
Styrene	19.4		µg/kg		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	20.1		µg/kg		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	18.1		µg/kg		20.0		91	70-130		
Tetrachloroethene	18.0		µg/kg		20.0		90	70-130		
Toluene	17.0		µg/kg		20.0		85	70-130		
1,2,3-Trichlorobenzene	20.6		µg/kg		20.0		103	70-130		
1,2,4-Trichlorobenzene	20.3		µg/kg		20.0		101	70-130		
1,3,5-Trichlorobenzene	20.1		µg/kg		20.0		101	70-130		
1,1,1-Trichloroethane	16.6		µg/kg		20.0		83	70-130		
1,1,2-Trichloroethane	17.3		µg/kg		20.0		87	70-130		
Trichloroethene	17.7		µg/kg		20.0		89	70-130		
Trichlorofluoromethane (Freon 11)	16.2		µg/kg		20.0		81	70-130		
1,2,3-Trichloropropane	18.7		µg/kg		20.0		93	70-130		
1,2,4-Trimethylbenzene	20.1		µg/kg		20.0		100	70-130		
1,3,5-Trimethylbenzene	20.0		µg/kg		20.0		100	70-130		
Vinyl chloride	16.5		µg/kg		20.0		82	70-130		
m,p-Xylene	19.6		µg/kg		20.0		98	70-130		
o-Xylene	19.8		µg/kg		20.0		99	70-130		
Tetrahydrofuran	16.7		µg/kg		20.0		84	70-130		
Ethyl ether	16.2		µg/kg		20.0		81	70-130		
Tert-amyl methyl ether	14.9		µg/kg		20.0		75	70-130		
Ethyl tert-butyl ether	17.3		µg/kg		20.0		87	70-130		
Di-isopropyl ether	16.8		µg/kg		20.0		84	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS (1621537-BS1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
Tert-Butanol / butyl alcohol	163		µg/kg		200		81	70-130		
1,4-Dioxane	182		µg/kg		200		91	70-130		
trans-1,4-Dichloro-2-butene	20.4		µg/kg		20.0		102	70-130		
Ethanol	348		µg/kg		400		87	70-130		
Surrogate: 4-Bromofluorobenzene	53.2		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	50.1		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.4		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.2		µg/kg		50.0		98	70-130		
<u>LCS Dup (1621537-BSD1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.0		µg/kg		20.0		85	70-130	0.9	30
Acetone	17.7		µg/kg		20.0		89	70-130	2	30
Acrylonitrile	17.5		µg/kg		20.0		88	70-130	4	30
Benzene	18.1		µg/kg		20.0		91	70-130	5	30
Bromobenzene	20.4		µg/kg		20.0		102	70-130	7	30
Bromochloromethane	20.7		µg/kg		20.0		104	70-130	2	30
Bromodichloromethane	17.7		µg/kg		20.0		88	70-130	5	30
Bromoform	20.0		µg/kg		20.0		100	70-130	7	30
Bromomethane	17.0		µg/kg		20.0		85	70-130	5	30
2-Butanone (MEK)	20.3		µg/kg		20.0		101	70-130	6	30
n-Butylbenzene	22.3		µg/kg		20.0		112	70-130	20	30
sec-Butylbenzene	21.3		µg/kg		20.0		107	70-130	8	30
tert-Butylbenzene	21.8		µg/kg		20.0		109	70-130	8	30
Carbon disulfide	22.5		µg/kg		20.0		113	70-130	6	30
Carbon tetrachloride	18.0		µg/kg		20.0		90	70-130	3	30
Chlorobenzene	19.7		µg/kg		20.0		99	70-130	7	30
Chloroethane	16.4		µg/kg		20.0		82	70-130	7	30
Chloroform	17.3		µg/kg		20.0		86	70-130	3	30
Chloromethane	16.6		µg/kg		20.0		83	70-130	3	30
2-Chlorotoluene	17.6		µg/kg		20.0		88	70-130	7	30
4-Chlorotoluene	21.3		µg/kg		20.0		106	70-130	8	30
1,2-Dibromo-3-chloropropane	20.6		µg/kg		20.0		103	70-130	13	30
Dibromochloromethane	17.7		µg/kg		20.0		89	70-130	6	30
1,2-Dibromoethane (EDB)	19.2		µg/kg		20.0		96	70-130	3	30
Dibromomethane	17.3		µg/kg		20.0		86	70-130	1	30
1,2-Dichlorobenzene	23.1		µg/kg		20.0		116	70-130	22	30
1,3-Dichlorobenzene	22.6		µg/kg		20.0		113	70-130	8	30
1,4-Dichlorobenzene	22.4		µg/kg		20.0		112	70-130	20	30
Dichlorodifluoromethane (Freon12)	18.4		µg/kg		20.0		92	70-130	22	30
1,1-Dichloroethane	17.4		µg/kg		20.0		87	70-130	3	30
1,2-Dichloroethane	17.3		µg/kg		20.0		87	70-130	4	30
1,1-Dichloroethene	18.4		µg/kg		20.0		92	70-130	4	30
cis-1,2-Dichloroethene	18.3		µg/kg		20.0		91	70-130	3	30
trans-1,2-Dichloroethene	18.2		µg/kg		20.0		91	70-130	4	30
1,2-Dichloropropane	17.2		µg/kg		20.0		86	70-130	6	30
1,3-Dichloropropane	17.4		µg/kg		20.0		87	70-130	4	30
2,2-Dichloropropane	20.1		µg/kg		20.0		101	70-130	3	30
1,1-Dichloropropene	16.9		µg/kg		20.0		85	70-130	3	30
cis-1,3-Dichloropropene	17.7		µg/kg		20.0		89	70-130	6	30
trans-1,3-Dichloropropene	17.4		µg/kg		20.0		87	70-130	5	30
Ethylbenzene	18.9		µg/kg		20.0		95	70-130	8	30
Hexachlorobutadiene	22.9		µg/kg		20.0		114	70-130	19	30

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS Dup (1621537-BSD1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
2-Hexanone (MBK)	15.9		µg/kg		20.0		80	70-130	5	30
Isopropylbenzene	21.1		µg/kg		20.0		105	70-130	7	30
4-Isopropyltoluene	27.4	QM9	µg/kg		20.0		137	70-130	17	30
Methyl tert-butyl ether	18.8		µg/kg		20.0		94	70-130	5	30
4-Methyl-2-pentanone (MIBK)	15.9		µg/kg		20.0		80	70-130	3	30
Methylene chloride	19.0		µg/kg		20.0		95	70-130	7	30
Naphthalene	28.2	QM9	µg/kg		20.0		141	70-130	21	30
n-Propylbenzene	20.7		µg/kg		20.0		104	70-130	7	30
Styrene	21.0		µg/kg		20.0		105	70-130	8	30
1,1,1,2-Tetrachloroethane	21.4		µg/kg		20.0		107	70-130	6	30
1,1,2,2-Tetrachloroethane	19.3		µg/kg		20.0		96	70-130	6	30
Tetrachloroethene	18.8		µg/kg		20.0		94	70-130	4	30
Toluene	17.7		µg/kg		20.0		88	70-130	4	30
1,2,3-Trichlorobenzene	25.9		µg/kg		20.0		129	70-130	22	30
1,2,4-Trichlorobenzene	25.3		µg/kg		20.0		127	70-130	22	30
1,3,5-Trichlorobenzene	24.8		µg/kg		20.0		124	70-130	21	30
1,1,1-Trichloroethane	17.3		µg/kg		20.0		86	70-130	4	30
1,1,2-Trichloroethane	17.9		µg/kg		20.0		89	70-130	3	30
Trichloroethene	18.6		µg/kg		20.0		93	70-130	5	30
Trichlorofluoromethane (Freon 11)	16.8		µg/kg		20.0		84	70-130	4	30
1,2,3-Trichloropropane	19.5		µg/kg		20.0		98	70-130	5	30
1,2,4-Trimethylbenzene	21.7		µg/kg		20.0		109	70-130	8	30
1,3,5-Trimethylbenzene	21.8		µg/kg		20.0		109	70-130	9	30
Vinyl chloride	16.8		µg/kg		20.0		84	70-130	2	30
m,p-Xylene	21.5		µg/kg		20.0		108	70-130	9	30
o-Xylene	21.3		µg/kg		20.0		107	70-130	7	30
Tetrahydrofuran	16.6		µg/kg		20.0		83	70-130	0.8	30
Ethyl ether	16.8		µg/kg		20.0		84	70-130	4	30
Tert-amyl methyl ether	15.5		µg/kg		20.0		78	70-130	4	30
Ethyl tert-butyl ether	18.1		µg/kg		20.0		90	70-130	4	30
Di-isopropyl ether	17.6		µg/kg		20.0		88	70-130	4	30
Tert-Butanol / butyl alcohol	174		µg/kg		200		87	70-130	7	30
1,4-Dioxane	194		µg/kg		200		97	70-130	6	30
trans-1,4-Dichloro-2-butene	18.6		µg/kg		20.0		93	70-130	9	30
Ethanol	324		µg/kg		400		81	70-130	7	30
Surrogate: 4-Bromofluorobenzene	50.2		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	48.7		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.9		µg/kg		50.0		100	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
Blank (1621474-BLK1)	<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>									
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
Aniline	< 330	U	µg/kg wet	330						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
1,3-Dichlorobenzene	< 330	U	µg/kg wet	330						
1,4-Dichlorobenzene	< 330	U	µg/kg wet	330						
1,2-Dichlorobenzene	< 330	U	µg/kg wet	330						
Benzyl alcohol	< 330	U	µg/kg wet	330						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
Isophorone	< 167	U	µg/kg wet	167						
Bis(2-chloroethoxy)methane	< 330	U	µg/kg wet	330						
Carbazole	< 167	U	µg/kg wet	167						
Benzoic acid	< 330	U	µg/kg wet	330						
Naphthalene	< 66.7	U	µg/kg wet	66.7						
4-Chloroaniline	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
2-Methylnaphthalene	< 66.7	U	µg/kg wet	66.7						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 330	U	µg/kg wet	330						
2-Nitroaniline	< 330	U	µg/kg wet	330						
Acenaphthylene	< 66.7	U	µg/kg wet	66.7						
Dimethyl phthalate	< 330	U	µg/kg wet	330						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Acenaphthene	< 66.7	U	µg/kg wet	66.7						
3-Nitroaniline	< 330	U	µg/kg wet	330						
Dibenzofuran	< 167	U	µg/kg wet	167						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
Fluorene	< 66.7	U	µg/kg wet	66.7						
4-Chlorophenyl phenyl ether	< 330	U	µg/kg wet	330						
Diethyl phthalate	< 330	U	µg/kg wet	330						
4-Nitroaniline	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 330	U	µg/kg wet	330						
Azobenzene/Diphenyldiazene	< 330	U	µg/kg wet	330						
4-Bromophenyl phenyl ether	< 330	U	µg/kg wet	330						
1-Methylnaphthalene	< 66.7	U	µg/kg wet	66.7						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
Phenanthrene	< 66.7	U	µg/kg wet	66.7						
Anthracene	< 66.7	U	µg/kg wet	66.7						
Di-n-butyl phthalate	< 330	U	µg/kg wet	330						
Fluoranthene	< 66.7	U	µg/kg wet	66.7						
Benzidine	< 330	U	µg/kg wet	330						
Pyrene	< 66.7	U	µg/kg wet	66.7						
Butyl benzyl phthalate	< 330	U	µg/kg wet	330						
3,3'-Dichlorobenzidine	< 330	U	µg/kg wet	330						
Benzo (a) anthracene	< 66.7	U	µg/kg wet	66.7						
Chrysene	< 66.7	U	µg/kg wet	66.7						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 330	U	µg/kg wet	330						
Benzo (b) fluoranthene	< 66.7	U	µg/kg wet	66.7						
Benzo (k) fluoranthene	< 66.7	U	µg/kg wet	66.7						

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
Blank (1621474-BLK1)					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Benzo (a) pyrene	< 66.7	U	µg/kg wet	66.7						
Indeno (1,2,3-cd) pyrene	< 66.7	U	µg/kg wet	66.7						
Dibenzo (a,h) anthracene	< 66.7	U	µg/kg wet	66.7						
Benzo (g,h,i) perylene	< 66.7	U	µg/kg wet	66.7						
Pyridine	< 330	U	µg/kg wet	330						
1,2,4-Trichlorobenzene	< 330	U	µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	< 330	U	µg/kg wet	330						
Surrogate: 2-Fluorophenol	1130		µg/kg wet		1670		68	30-130		
Surrogate: 2-Fluorobiphenyl	1060		µg/kg wet		1670		64	30-130		
Surrogate: Nitrobenzene-d5	1270		µg/kg wet		1670		76	30-130		
Surrogate: Phenol-d5	1220		µg/kg wet		1670		73	30-130		
Surrogate: Terphenyl-dl4	1330		µg/kg wet		1670		80	30-130		
Surrogate: 2,4,6-Tribromophenol	747		µg/kg wet		1670		45	30-130		
LCS (1621474-BS1)					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
N-Nitrosodimethylamine	1010		µg/kg wet	167	1660		61	40-140		
Aniline	824		µg/kg wet	329	1660		50	40-140		
Bis(2-chloroethyl)ether	1010		µg/kg wet	167	1660		61	40-140		
1,3-Dichlorobenzene	846		µg/kg wet	329	1660		51	40-140		
1,4-Dichlorobenzene	886		µg/kg wet	329	1660		53	40-140		
1,2-Dichlorobenzene	923		µg/kg wet	329	1660		55	40-140		
Benzyl alcohol	974		µg/kg wet	329	1660		59	40-140		
Bis(2-chloroisopropyl)ether	1450		µg/kg wet	167	1660		87	40-140		
Hexachloroethane	1020		µg/kg wet	167	1660		61	40-140		
Nitrobenzene	1220		µg/kg wet	167	1660		73	40-140		
Isophorone	1010		µg/kg wet	167	1660		61	40-140		
Bis(2-chloroethoxy)methane	1060		µg/kg wet	329	1660		64	40-140		
Carbazole	1360		µg/kg wet	167	1660		82	40-140		
Naphthalene	978		µg/kg wet	66.6	1660		59	40-140		
4-Chloroaniline	711		µg/kg wet	167	1660		43	40-140		
Hexachlorobutadiene	758		µg/kg wet	167	1660		46	40-140		
2-Methylnaphthalene	1170		µg/kg wet	66.6	1660		70	40-140		
Hexachlorocyclopentadiene	486	QC2	µg/kg wet	167	1660		29	40-140		
2-Chloronaphthalene	998		µg/kg wet	329	1660		60	40-140		
2-Nitroaniline	1180		µg/kg wet	329	1660		71	40-140		
Acenaphthylene	1020		µg/kg wet	66.6	1660		61	40-140		
Dimethyl phthalate	978		µg/kg wet	329	1660		59	40-140		
2,6-Dinitrotoluene	1160		µg/kg wet	167	1660		70	40-140		
Acenaphthene	1030		µg/kg wet	66.6	1660		62	40-140		
3-Nitroaniline	1090		µg/kg wet	329	1660		65	40-140		
Dibenzofuran	1010		µg/kg wet	167	1660		61	40-140		
2,4-Dinitrotoluene	1250		µg/kg wet	167	1660		75	40-140		
Fluorene	981		µg/kg wet	66.6	1660		59	40-140		
4-Chlorophenyl phenyl ether	908		µg/kg wet	329	1660		55	40-140		
Diethyl phthalate	1050		µg/kg wet	329	1660		63	40-140		
4-Nitroaniline	1470		µg/kg wet	167	1660		89	40-140		
N-Nitrosodiphenylamine	1250		µg/kg wet	329	1660		75	40-140		
Azobenzene/Diphenyldiazene	1520		µg/kg wet	329	1660		91	40-140		
4-Bromophenyl phenyl ether	984		µg/kg wet	329	1660		59	40-140		
Hexachlorobenzene	1020		µg/kg wet	167	1660		61	40-140		
1-Methylnaphthalene	1090		µg/kg wet	66.6	1660		65	40-140		
Phenanthrene	1030		µg/kg wet	66.6	1660		62	40-140		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
<u>LCS (1621474-BS1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Anthracene	1130		µg/kg wet	66.6	1660		68	40-140		
Di-n-butyl phthalate	1300		µg/kg wet	329	1660		78	40-140		
Fluoranthene	1150		µg/kg wet	66.6	1660		69	40-140		
Benzidine	2990	QC2	µg/kg wet	329	1660		180	40-140		
Pyrene	1220		µg/kg wet	66.6	1660		73	40-140		
Butyl benzyl phthalate	1370		µg/kg wet	329	1660		82	40-140		
3,3'-Dichlorobenzidine	1280		µg/kg wet	329	1660		77	40-140		
Benzo (a) anthracene	1140		µg/kg wet	66.6	1660		68	40-140		
Chrysene	1210		µg/kg wet	66.6	1660		73	40-140		
N-Nitrosodi-n-propylamine	1300		µg/kg wet	167	1660		78	40-140		
Bis(2-ethylhexyl)phthalate	1490		µg/kg wet	167	1660		89	40-140		
Di-n-octyl phthalate	1460		µg/kg wet	329	1660		87	40-140		
Benzo (b) fluoranthene	1150		µg/kg wet	66.6	1660		69	40-140		
Benzo (k) fluoranthene	1310		µg/kg wet	66.6	1660		78	40-140		
Benzo (a) pyrene	1270		µg/kg wet	66.6	1660		77	40-140		
Indeno (1,2,3-cd) pyrene	1170		µg/kg wet	66.6	1660		70	40-140		
Dibenzo (a,h) anthracene	1230		µg/kg wet	66.6	1660		74	40-140		
Pyridine	692		µg/kg wet	329	1660		42	40-140		
Benzo (g,h,i) perylene	1150		µg/kg wet	66.6	1660		69	40-140		
1,2,4-Trichlorobenzene	882		µg/kg wet	329	1660		53	40-140		
1,2,4,5-Tetrachlorobenzene	940		µg/kg wet	329	1660		57	40-140		
Surrogate: 2-Fluorobiphenyl	952		µg/kg wet		1660		57	30-130		
Surrogate: 2-Fluorophenol	995		µg/kg wet		1660		60	30-130		
Surrogate: Nitrobenzene-d5	1110		µg/kg wet		1660		67	30-130		
Surrogate: Phenol-d5	1050		µg/kg wet		1660		63	30-130		
Surrogate: Terphenyl-d14	1160		µg/kg wet		1660		70	30-130		
Surrogate: 2,4,6-Tribromophenol	896		µg/kg wet		1660		54	30-130		
<u>LCS Dup (1621474-BSD1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
N-Nitrosodimethylamine	1020		µg/kg wet	167	1670		61	40-140	0.8	30
Aniline	792		µg/kg wet	330	1670		48	40-140	4	30
Bis(2-chloroethyl)ether	982		µg/kg wet	167	1670		59	40-140	3	30
1,3-Dichlorobenzene	901		µg/kg wet	330	1670		54	40-140	6	30
1,4-Dichlorobenzene	922		µg/kg wet	330	1670		55	40-140	4	30
1,2-Dichlorobenzene	954		µg/kg wet	330	1670		57	40-140	3	30
Benzyl alcohol	1050		µg/kg wet	330	1670		63	40-140	8	30
Bis(2-chloroisopropyl)ether	1450		µg/kg wet	167	1670		87	40-140	0.3	30
Hexachloroethane	1030		µg/kg wet	167	1670		62	40-140	0.9	30
Nitrobenzene	1260		µg/kg wet	167	1670		76	40-140	4	30
Isophorone	988		µg/kg wet	167	1670		59	40-140	3	30
Bis(2-chloroethoxy)methane	1010		µg/kg wet	330	1670		61	40-140	5	30
Carbazole	1250		µg/kg wet	167	1670		75	40-140	8	30
Naphthalene	1000		µg/kg wet	66.6	1670		60	40-140	2	30
4-Chloroaniline	669		µg/kg wet	167	1670		40	40-140	6	30
Hexachlorobutadiene	760		µg/kg wet	167	1670		46	40-140	0.2	30
2-Methylnaphthalene	1160		µg/kg wet	66.6	1670		70	40-140	0.8	30
Hexachlorocyclopentadiene	519	QC2	µg/kg wet	167	1670		31	40-140	7	30
2-Chloronaphthalene	972		µg/kg wet	330	1670		58	40-140	3	30
2-Nitroaniline	1160		µg/kg wet	330	1670		69	40-140	2	30
Acenaphthylene	1030		µg/kg wet	66.6	1670		62	40-140	1	30
Dimethyl phthalate	1010		µg/kg wet	330	1670		61	40-140	3	30
2,6-Dinitrotoluene	1170		µg/kg wet	167	1670		70	40-140	0.6	30

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
<u>LCS Dup (1621474-BSD1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Acenaphthene	986		µg/kg wet	66.6	1670		59	40-140	5	30
3-Nitroaniline	1010		µg/kg wet	330	1670		61	40-140	8	30
Dibenzofuran	977		µg/kg wet	167	1670		59	40-140	4	30
2,4-Dinitrotoluene	1180		µg/kg wet	167	1670		71	40-140	6	30
Fluorene	975		µg/kg wet	66.6	1670		59	40-140	0.6	30
4-Chlorophenyl phenyl ether	959		µg/kg wet	330	1670		58	40-140	5	30
Diethyl phthalate	1040		µg/kg wet	330	1670		63	40-140	0.8	30
4-Nitroaniline	1470		µg/kg wet	167	1670		88	40-140	0.4	30
N-Nitrosodiphenylamine	1170		µg/kg wet	330	1670		71	40-140	6	30
Azobenzene/Diphenyldiazene	1450		µg/kg wet	330	1670		87	40-140	5	30
4-Bromophenyl phenyl ether	911		µg/kg wet	330	1670		55	40-140	8	30
1-Methylnaphthalene	1090		µg/kg wet	66.6	1670		66	40-140	0.5	30
Hexachlorobenzene	951		µg/kg wet	167	1670		57	40-140	7	30
Phenanthrene	1040		µg/kg wet	66.6	1670		62	40-140	0.6	30
Anthracene	1130		µg/kg wet	66.6	1670		68	40-140	0.2	30
Di-n-butyl phthalate	1230		µg/kg wet	330	1670		74	40-140	6	30
Fluoranthene	1050		µg/kg wet	66.6	1670		63	40-140	9	30
Benzidine	2920	QC2	µg/kg wet	330	1670		175	40-140	2	30
Pyrene	1280		µg/kg wet	66.6	1670		77	40-140	5	30
Butyl benzyl phthalate	1480		µg/kg wet	330	1670		89	40-140	8	30
3,3'-Dichlorobenzidine	1350		µg/kg wet	330	1670		81	40-140	6	30
Benzo (a) anthracene	1080		µg/kg wet	66.6	1670		65	40-140	5	30
Chrysene	1320		µg/kg wet	66.6	1670		79	40-140	8	30
N-Nitrosodi-n-propylamine	1280		µg/kg wet	167	1670		77	40-140	2	30
Bis(2-ethylhexyl)phthalate	1510		µg/kg wet	167	1670		91	40-140	2	30
Di-n-octyl phthalate	1470		µg/kg wet	330	1670		88	40-140	0.7	30
Benzo (b) fluoranthene	1110		µg/kg wet	66.6	1670		67	40-140	3	30
Benzo (k) fluoranthene	1310		µg/kg wet	66.6	1670		78	40-140	0.08	30
Benzo (a) pyrene	1300		µg/kg wet	66.6	1670		78	40-140	2	30
Indeno (1,2,3-cd) pyrene	1140		µg/kg wet	66.6	1670		68	40-140	3	30
Dibenzo (a,h) anthracene	1200		µg/kg wet	66.6	1670		72	40-140	2	30
Benzo (g,h,i) perylene	1180		µg/kg wet	66.6	1670		71	40-140	2	30
Pyridine	747		µg/kg wet	330	1670		45	40-140	8	30
1,2,4-Trichlorobenzene	888		µg/kg wet	330	1670		53	40-140	0.6	30
1,2,4,5-Tetrachlorobenzene	907		µg/kg wet	330	1670		54	40-140	4	30
Surrogate: 2-Fluorobiphenyl	994		µg/kg wet		1670		60	30-130		
Surrogate: 2-Fluorophenol	1030		µg/kg wet		1670		62	30-130		
Surrogate: Nitrobenzene-d5	1130		µg/kg wet		1670		68	30-130		
Surrogate: Phenol-d5	1070		µg/kg wet		1670		64	30-130		
Surrogate: Terphenyl-dl4	1280		µg/kg wet		1670		77	30-130		
Surrogate: 2,4,6-Tribromophenol	871		µg/kg wet		1670		52	30-130		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621521 - SW846 3546										
<u>Blank (1621521-BLK1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	< 19.2	U	µg/kg wet	19.2						
Aroclor-1016 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1221	< 19.2	U	µg/kg wet	19.2						
Aroclor-1221 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1232	< 19.2	U	µg/kg wet	19.2						
Aroclor-1232 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1242	< 19.2	U	µg/kg wet	19.2						
Aroclor-1242 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1248	< 19.2	U	µg/kg wet	19.2						
Aroclor-1248 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1254	< 19.2	U	µg/kg wet	19.2						
Aroclor-1254 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1260	< 19.2	U	µg/kg wet	19.2						
Aroclor-1260 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1262	< 19.2	U	µg/kg wet	19.2						
Aroclor-1262 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1268	< 19.2	U	µg/kg wet	19.2						
Aroclor-1268 [2C]	< 19.2	U	µg/kg wet	19.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.3		µg/kg wet		19.2		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.3		µg/kg wet		19.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.0		µg/kg wet		19.2		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.2		µg/kg wet		19.2		100	30-150		
<u>LCS (1621521-BS1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	184		µg/kg wet	20.0	249		74	40-140		
Aroclor-1016 [2C]	169		µg/kg wet	20.0	249		68	40-140		
Aroclor-1260	197		µg/kg wet	20.0	249		79	40-140		
Aroclor-1260 [2C]	180		µg/kg wet	20.0	249		72	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.0		µg/kg wet		20.0		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.0		µg/kg wet		20.0		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.0		µg/kg wet		20.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.0		µg/kg wet		20.0		80	30-150		
<u>LCS Dup (1621521-BSD1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	181		µg/kg wet	19.8	248		73	40-140	2	30
Aroclor-1016 [2C]	160		µg/kg wet	19.8	248		64	40-140	5	30
Aroclor-1260	205		µg/kg wet	19.8	248		83	40-140	4	30
Aroclor-1260 [2C]	176		µg/kg wet	19.8	248		71	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.9		µg/kg wet		19.8		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.9		µg/kg wet		19.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.8		µg/kg wet		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.9		µg/kg wet		19.8		85	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621824 - SW846 3050B										
<u>Blank (1621824-BLK1)</u>					<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Thallium	< 2.77	U	mg/kg wet	2.77						
Selenium	< 1.38	U	mg/kg wet	1.38						
Antimony	< 4.62	U	mg/kg wet	4.62						
Lead	< 1.38	U	mg/kg wet	1.38						
Zinc	< 0.923	U	mg/kg wet	0.923						
Silver	< 1.38	U	mg/kg wet	1.38						
Copper	< 0.923	U	mg/kg wet	0.923						
Chromium	< 0.923	U	mg/kg wet	0.923						
Cadmium	< 0.462	U	mg/kg wet	0.462						
Beryllium	< 0.462	U	mg/kg wet	0.462						
Arsenic	< 1.38	U	mg/kg wet	1.38						
Nickel	< 0.923	U	mg/kg wet	0.923						
Barium	< 0.923	U	mg/kg wet	0.923						
<u>Duplicate (1621824-DUP1)</u>					<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Arsenic	10.2		mg/kg dry	1.73		9.73			5	20
Cadmium	0.860		mg/kg dry	0.576		0.751			13	20
Silver	0.623	J	mg/kg dry	1.73		0.618			0.8	20
Chromium	14.5		mg/kg dry	1.15		14.1			3	20
Lead	64.5		mg/kg dry	1.73		68.9			7	20
Selenium	0.680	J	mg/kg dry	1.73		0.629			8	20
Barium	56.4		mg/kg dry	1.15		56.4			0.01	20
<u>Matrix Spike (1621824-MS1)</u>					<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Lead	182	QM7	mg/kg dry	1.83	152	68.9	74	75-125		
Arsenic	135		mg/kg dry	1.83	152	9.73	82	75-125		
Silver	102	QM7	mg/kg dry	1.83	152	0.618	67	75-125		
Cadmium	113	QM7	mg/kg dry	0.609	152	0.751	74	75-125		
Chromium	142		mg/kg dry	1.22	152	14.1	84	75-125		
Selenium	122		mg/kg dry	1.83	152	0.629	80	75-125		
Barium	202		mg/kg dry	1.22	152	56.4	96	75-125		
<u>Matrix Spike Dup (1621824-MSD1)</u>					<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Lead	200		mg/kg dry	1.82	152	68.9	86	75-125	9	20
Selenium	126		mg/kg dry	1.82	152	0.629	83	75-125	3	20
Chromium	144		mg/kg dry	1.22	152	14.1	86	75-125	1	20
Cadmium	113	QM7	mg/kg dry	0.608	152	0.751	74	75-125	0.4	20
Arsenic	138		mg/kg dry	1.82	152	9.73	84	75-125	2	20
Silver	118		mg/kg dry	1.82	152	0.618	77	75-125	14	20
Barium	217		mg/kg dry	1.22	152	56.4	106	75-125	7	20
<u>Post Spike (1621824-PS1)</u>					<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Selenium	120		mg/kg dry	1.72	143	0.629	83	80-120		
Chromium	129		mg/kg dry	1.14	143	14.1	81	80-120		
Arsenic	127		mg/kg dry	1.72	143	9.73	82	80-120		
Barium	176		mg/kg dry	1.14	143	56.4	83	80-120		
<u>Reference (1621824-SRM1)</u>					<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Beryllium	48.6		mg/kg wet	0.500	50.3		97	82.6-117.2		
Selenium	84.0		mg/kg wet	1.50	92.1		91	78.7-121.3		
Silver	13.1		mg/kg wet	1.50	16.2		81	75.1-124.9		
Thallium	72.0		mg/kg wet	3.00	73.0		99	79.4-121.3		
Antimony	27.2		mg/kg wet	5.00	63.6		43	25-175		

This laboratory report is not valid without an authorized signature on the cover page.

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621824 - SW846 3050B										
<u>Reference (1621824-SRM1)</u>	<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>									
Lead	69.3		mg/kg wet	1.50	75.5		92	81.5-118.5		
Nickel	60.0		mg/kg wet	1.00	66.7		90	82.9-117.1		
Copper	87.4		mg/kg wet	1.00	89.5		98	81.5-117.9		
Chromium	68.1		mg/kg wet	1.00	74.0		92	79.7-119.6		
Cadmium	38.3		mg/kg wet	0.500	45.3		85	82.6-117.6		
Arsenic	69.2		mg/kg wet	1.50	75.0		92	79.3-121.4		
Zinc	83.6		mg/kg wet	1.00	100		83	82-118		
Barium	112		mg/kg wet	1.00	108		103	83.3-117.2		
<u>Reference (1621824-SRM2)</u>	<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>									
Beryllium	46.9		mg/kg wet	0.500	50.1		94	82.6-117.2		
Lead	63.4		mg/kg wet	1.50	75.1		84	81.5-118.5		
Zinc	81.4		mg/kg wet	1.00	99.8		82	82-118		
Thallium	69.0		mg/kg wet	3.00	72.5		95	79.4-121.3		
Selenium	83.0		mg/kg wet	1.50	91.6		91	78.7-121.3		
Antimony	27.7		mg/kg wet	5.00	63.3		44	25-175		
Nickel	59.6		mg/kg wet	1.00	66.4		90	82.9-117.1		
Copper	85.7		mg/kg wet	1.00	89.0		96	81.5-117.9		
Cadmium	37.9		mg/kg wet	0.500	45.1		84	82.6-117.6		
Arsenic	67.2		mg/kg wet	1.50	74.6		90	79.3-121.4		
Silver	12.8		mg/kg wet	1.50	16.1		80	75.1-124.9		
Chromium	66.1		mg/kg wet	1.00	73.6		90	79.7-119.6		
Barium	104		mg/kg wet	1.00	108		97	83.3-117.2		
Batch 1621825 - EPA200/SW7000 Series										
<u>Blank (1621825-BLK1)</u>	<u>Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	< 0.0274	U	mg/kg wet	0.0274						
<u>Duplicate (1621825-DUP1)</u>	<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	0.629		mg/kg dry	0.0341		0.658			4	20
<u>Matrix Spike (1621825-MS1)</u>	<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	1.19	QM5, D	mg/kg dry	0.0681	0.237	0.658	224	75-125		
<u>Matrix Spike Dup (1621825-MSD1)</u>	<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	1.09	QM5	mg/kg dry	0.0330	0.229	0.658	187	75-125	9	20
<u>Post Spike (1621825-PS1)</u>	<u>Source: SC29311-02 Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	1.04	QM5	mg/kg dry	0.0357	0.248	0.658	155	80-120		
<u>Reference (1621825-SRM1)</u>	<u>Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>									
Mercury	4.91	D	mg/kg wet	0.600	4.27		115	71.5-128.5		

This laboratory report is not valid without an authorized signature on the cover page.

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC29311-01	<i>SB-1</i>	12/7/2016 3:34 PM
SC29311-02	<i>SB-2</i>	12/7/2016 3:34 PM
SC29311-04	<i>SB-3</i>	12/7/2016 3:34 PM
SC29311-05	<i>SB-4</i>	12/7/2016 3:34 PM
SC29311-07	<i>SB-6</i>	12/7/2016 3:34 PM

Notes and Definitions

D	Data reported from a dilution
DC10	The internal standard recovery on the confirmation column was outside of the acceptance limits. The results from the primary column were used.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM5	The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Laboratory Report

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 1712 Erie St - Utica, NY
Project #: 16-319

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC29309-01	SB-11 (Surface)	Soil	07-Dec-16 09:06	07-Dec-16 15:34
SC29309-02	SB-16 (Surface)	Soil	07-Dec-16 11:14	07-Dec-16 15:34
SC29309-03	SB-16	Soil	07-Dec-16 11:32	07-Dec-16 15:34
SC29309-04	SP-01	Soil	07-Dec-16 13:14	07-Dec-16 15:34
SC29309-05	SP-02	Soil	07-Dec-16 13:25	07-Dec-16 15:34
SC29309-06	Trip Blank	Methanol/Deionized Water	07-Dec-16 00:00	07-Dec-16 15:34

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:



June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 63 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 8.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

All volatile soil/product/solid samples should be collected in accordance method SW846 5035/5035A. Any sample with a result below 200ug/Kg that has not been collected in accordance with method 5035/5035A must be evaluated as potentially biased low.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010C

Samples:

SC29309-01 *SB-11 (Surface)*

The Reporting Limit has been raised to account for matrix interference.

Antimony

SW846 8260C

Calibration:

1611066

SW846 8260C

Calibration:

1611066

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dioxane
2,2-Dichloropropane
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Isopropylbenzene
m,p-Xylene
Naphthalene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1621537-BLK1
1621537-BS1
1621537-BSD1
S610300-ICV1
S610586-CCV1
SB-16
SP-01
Trip Blank

1612031

SW846 8260C

Calibration:

1612031

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Chlorotoluene
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Propylbenzene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

S610589-ICV1

S610589-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

trans-1,2-Dichloroethene (129%)

This affected the following samples:

1621949-BLK1
1621949-BS1
1621949-BSD1
1622138-BLK1
1622138-BS1
1622138-BSD1
S610777-CCV1
S610868-CCV1
SP-02
Trip Blank

Laboratory Control Samples:

1621537 BS/BSD

4-Isopropyltoluene percent recoveries (115/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-16
SP-01
Trip Blank

SW846 8260C

Laboratory Control Samples:

1621537 BS/BSD

Naphthalene percent recoveries (115/141) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-16
SP-01
Trip Blank

1621949 BS/BSD

2,2-Dichloropropane percent recoveries (135/125) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Trip Blank

Acetone percent recoveries (79/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank

trans-1,2-Dichloroethene percent recoveries (121/155) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Trip Blank

1621949-BS1

LCS/LCSD were analyzed in place of MS/MSD.

1621949-BSD1

LCS/LCSD were analyzed in place of MS/MSD.

1622138 BS/BSD

Methyl tert-butyl ether percent recoveries (162/110) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SP-02

trans-1,2-Dichloroethene percent recoveries (179/174) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SP-02

1622138 BSD

Methyl tert-butyl ether RPD 38% (30%) is outside individual acceptance criteria.

Samples:

S610586-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Tert-amyl methyl ether (-25.4%)

SW846 8260C

Samples:

S610586-CCV1

This affected the following samples:

1621537-BLK1
1621537-BS1
1621537-BSD1
SB-16
SP-01
Trip Blank

S610777-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (30.9%)
Chloroethane (-21.6%)
Methyl tert-butyl ether (23.4%)
Vinyl chloride (-28.9%)

This affected the following samples:

1621949-BLK1
1621949-BS1
1621949-BSD1
Trip Blank

S610868-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3-Dichlorobenzene (25.4%)
2,2-Dichloropropane (23.5%)
Bromobenzene (25.5%)
Isopropylbenzene (24.5%)
m,p-Xylene (22.6%)
o-Xylene (20.7%)
trans-1,2-Dichloroethene (30.8%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,1,1,2-Tetrachloroethane (22.2%)
Bromoform (24.7%)

This affected the following samples:

1622138-BLK1
1622138-BS1
1622138-BSD1
SP-02

SC29309-05

SP-02

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SW846 8270D

Calibration:

1610112

SW846 8270D

Calibration:

1610112

Analyte quantified by quadratic equation type calibration.

Benzidine
Benzoic acid

This affected the following samples:

S609272-ICV1

Laboratory Control Samples:

1621474 BS

Benzidine percent recovery 180 (40-140) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-11 (Surface)
SB-16
SB-16 (Surface)
SP-01
SP-02

Hexachlorocyclopentadiene percent recovery 29 (40-140) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-11 (Surface)
SB-16
SB-16 (Surface)
SP-01
SP-02

Samples:

S610601-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

4-Nitroaniline (27.6%)
Azobenzene/Diphenyldiazene (44.8%)
Bis(2-chloroisopropyl)ether (55.5%)
Bis(2-ethylhexyl)phthalate (26.9%)
Butyl benzyl phthalate (22.3%)
Di-n-octyl phthalate (39.4%)
Hexachlorocyclopentadiene (-48.0%)
Nitrobenzene (29.9%)
N-Nitrosodi-n-propylamine (28.0%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (-38.8%)
Benzoic acid (-27.2%)

This affected the following samples:

1621474-BLK1
1621474-BS1
1621474-BSD1

S610688-CCV1

SW846 8270D

Samples:

S610688-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Nitroaniline (24.0%)
3-Nitroaniline (36.7%)
4-Chloroaniline (25.3%)
4-Nitroaniline (46.8%)
Azobenzene/Diphenyldiazene (51.3%)
Bis(2-chloroethoxy)methane (23.5%)
Bis(2-chloroisopropyl)ether (39.3%)
Bis(2-ethylhexyl)phthalate (31.2%)
Butyl benzyl phthalate (25.6%)
Di-n-octyl phthalate (31.2%)
Hexachlorocyclopentadiene (-40.7%)
Isophorone (28.1%)

This affected the following samples:

SB-11 (Surface)
SB-16 (Surface)
SP-01
SP-02

S610787-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Nitroaniline (23.5%)
4-Nitroaniline (27.2%)
Azobenzene/Diphenyldiazene (25.9%)
Benzo (b) fluoranthene (20.1%)
Bis(2-chloroisopropyl)ether (41.3%)
Hexachlorocyclopentadiene (-37.9%)
Nitrobenzene (28.2%)
N-Nitrosodi-n-propylamine (23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzoic acid (-31.0%)

This affected the following samples:

SB-16

SC29309-02 *SB-16 (Surface)*

The Reporting Limit has been raised to account for matrix interference.

SC29309-03 *SB-16*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client: AECC Environmental Consulting
 Project: 1712 Erie St - Utica, NY / 16-319
 Work Order: SC29309
 Sample(s) received on: 12/7/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were samples refrigerated upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC29309-01

Client ID: SB-11 (Surface)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	7.42		1.51	mg/kg	SW846 6010C
Beryllium	0.438	J	0.504	mg/kg	SW846 6010C
Cadmium	0.431	J	0.504	mg/kg	SW846 6010C
Chromium	11.4		1.01	mg/kg	SW846 6010C
Copper	27.6		1.01	mg/kg	SW846 6010C
Lead	14.8		1.51	mg/kg	SW846 6010C
Nickel	15.8		1.01	mg/kg	SW846 6010C
Selenium	1.34	J	1.51	mg/kg	SW846 6010C
Silver	0.629	J	1.51	mg/kg	SW846 6010C
Zinc	49.9		1.01	mg/kg	SW846 6010C
Mercury	0.137		0.0293	mg/kg	SW846 7471B
Benzo (a) anthracene	88.1		72.3	µg/kg	SW846 8270D
Benzo (a) pyrene	91.7		72.3	µg/kg	SW846 8270D
Benzo (b) fluoranthene	89.5		72.3	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	52.7	J	72.3	µg/kg	SW846 8270D
Benzo (k) fluoranthene	57.4	J	72.3	µg/kg	SW846 8270D
Chrysene	95.3		72.3	µg/kg	SW846 8270D
Fluoranthene	143		72.3	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	52.7	J	72.3	µg/kg	SW846 8270D
Phenanthrene	103		72.3	µg/kg	SW846 8270D
Pyrene	154		72.3	µg/kg	SW846 8270D

Lab ID: SC29309-02

Client ID: SB-16 (Surface)

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.60		1.60	mg/kg	SW846 6010C
Beryllium	0.281	J	0.535	mg/kg	SW846 6010C
Cadmium	0.181	J	0.535	mg/kg	SW846 6010C
Chromium	6.95		1.07	mg/kg	SW846 6010C
Copper	14.6		1.07	mg/kg	SW846 6010C
Lead	15.3		1.60	mg/kg	SW846 6010C
Nickel	8.08		1.07	mg/kg	SW846 6010C
Selenium	0.519	J	1.60	mg/kg	SW846 6010C
Zinc	28.2		1.07	mg/kg	SW846 6010C
Mercury	0.0698		0.0309	mg/kg	SW846 7471B

Lab ID: SC29309-03

Client ID: SB-16

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.49		1.69	mg/kg	SW846 6010C
Barium	59.4		1.13	mg/kg	SW846 6010C
Cadmium	0.391	J	0.565	mg/kg	SW846 6010C
Chromium	13.3		1.13	mg/kg	SW846 6010C
Lead	9.42		1.69	mg/kg	SW846 6010C
Selenium	1.28	J	1.69	mg/kg	SW846 6010C
Silver	0.650	J	1.69	mg/kg	SW846 6010C
Mercury	0.0408		0.0321	mg/kg	SW846 7471B
Acetone	31.0	J	50.1	µg/kg	SW846 8260C
Benzo (a) anthracene	458	J, D	797	µg/kg	SW846 8270D
Chrysene	534	J, D	797	µg/kg	SW846 8270D
Pyrene	613	J, D	797	µg/kg	SW846 8270D

Lab ID: SC29309-04

Client ID: SP-01

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.15		1.67	mg/kg	SW846 6010C
Beryllium	0.506	J	0.555	mg/kg	SW846 6010C
Cadmium	0.285	J	0.555	mg/kg	SW846 6010C
Chromium	12.7		1.11	mg/kg	SW846 6010C
Copper	25.7		1.11	mg/kg	SW846 6010C
Lead	13.5		1.67	mg/kg	SW846 6010C
Nickel	16.7		1.11	mg/kg	SW846 6010C
Selenium	0.611	J	1.67	mg/kg	SW846 6010C
Silver	0.311	J	1.67	mg/kg	SW846 6010C
Zinc	46.6		1.11	mg/kg	SW846 6010C
Mercury	0.0504		0.0335	mg/kg	SW846 7471B
Benzo (a) anthracene	61.9	J	80.4	µg/kg	SW846 8270D
Benzo (a) pyrene	75.5	J	80.4	µg/kg	SW846 8270D
Benzo (b) fluoranthene	102		80.4	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	61.9	J	80.4	µg/kg	SW846 8270D
Benzo (k) fluoranthene	59.1	J	80.4	µg/kg	SW846 8270D
Chrysene	71.9	J	80.4	µg/kg	SW846 8270D
Fluoranthene	104		80.4	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	62.3	J	80.4	µg/kg	SW846 8270D
Phenanthrene	63.1	J	80.4	µg/kg	SW846 8270D
Pyrene	103		80.4	µg/kg	SW846 8270D

Lab ID: SC29309-05

Client ID: SP-02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	2.64		1.59	mg/kg	SW846 6010C
Beryllium	0.387	J	0.530	mg/kg	SW846 6010C
Cadmium	0.156	J	0.530	mg/kg	SW846 6010C
Chromium	7.41		1.06	mg/kg	SW846 6010C
Copper	11.7		1.06	mg/kg	SW846 6010C
Lead	7.62		1.59	mg/kg	SW846 6010C
Nickel	8.52		1.06	mg/kg	SW846 6010C
Zinc	28.5		1.06	mg/kg	SW846 6010C
Mercury	0.0577		0.0305	mg/kg	SW846 7471B
1,2,4-Trimethylbenzene	17.6	UJL, J, 47.6		µg/kg	SW846 8260C
4-Isopropyltoluene	20.5	UJL, J, 47.6		µg/kg	SW846 8260C
Bromomethane	71.4	UJL, J, 95.2		µg/kg	SW846 8260C
sec-Butylbenzene	17.1	UJL, J, 47.6		µg/kg	SW846 8260C
tert-Butylbenzene	14.3	UJL, J, 47.6		µg/kg	SW846 8260C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

SB-11 (Surface)

SC29309-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 09:06

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
<u>Prepared by method SW846 3546</u>													
62-75-9	N-Nitrosodimethylamine	< 181	U	µg/kg dry	181	54.9	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 357	U	µg/kg dry	357	49.4	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 181	U	µg/kg dry	181	45.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 357	U	µg/kg dry	357	44.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 357	U	µg/kg dry	357	47.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 357	U	µg/kg dry	357	44.9	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 357	U	µg/kg dry	357	51.7	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 181	U	µg/kg dry	181	42.6	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 181	U	µg/kg dry	181	46.5	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 181	U	µg/kg dry	181	47.7	1	"	"	"	"	"	X
78-59-1	Isophorone	< 181	U	µg/kg dry	181	46.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 357	U	µg/kg dry	357	45.9	1	"	"	"	"	"	X
86-74-8	Carbazole	< 181	U	µg/kg dry	181	47.2	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 357	U	µg/kg dry	357	86.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 72.3	U	µg/kg dry	72.3	43.4	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 181	U	µg/kg dry	181	52.5	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 181	U	µg/kg dry	181	45.0	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 72.3	U	µg/kg dry	72.3	50.2	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 181	U	µg/kg dry	181	65.2	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 357	U	µg/kg dry	357	45.7	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 357	U	µg/kg dry	357	59.9	1	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 72.3	U	µg/kg dry	72.3	48.4	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 357	U	µg/kg dry	357	42.2	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 181	U	µg/kg dry	181	44.3	1	"	"	"	"	"	X
83-32-9	Acenaphthene	< 72.3	U	µg/kg dry	72.3	47.9	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 357	U	µg/kg dry	357	64.3	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 181	U	µg/kg dry	181	46.6	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 181	U	µg/kg dry	181	54.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.3	U	µg/kg dry	72.3	44.8	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 357	U	µg/kg dry	357	47.6	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 357	U	µg/kg dry	357	43.6	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 181	U	µg/kg dry	181	71.2	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 357	U	µg/kg dry	357	49.6	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 357	U	µg/kg dry	357	44.4	1	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 357	U	µg/kg dry	357	44.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 72.3	U	µg/kg dry	72.3	44.8	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 181	U	µg/kg dry	181	42.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	103		µg/kg dry	72.3	43.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.3	U	µg/kg dry	72.3	47.0	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 357	U	µg/kg dry	357	44.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	143		µg/kg dry	72.3	40.5	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-11 (Surface)

SC29309-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 09:06

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

92-87-5	Benzidine	< 357	U	µg/kg dry	357	154	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	154		µg/kg dry	72.3	37.9	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 357	U	µg/kg dry	357	44.8	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 357	U	µg/kg dry	357	52.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	88.1		µg/kg dry	72.3	40.4	1	"	"	"	"	"	X
218-01-9	Chrysene	95.3		µg/kg dry	72.3	37.2	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 181	U	µg/kg dry	181	45.7	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 181	U	µg/kg dry	181	42.4	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 357	U	µg/kg dry	357	52.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	89.5		µg/kg dry	72.3	39.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	57.4	J	µg/kg dry	72.3	50.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	91.7		µg/kg dry	72.3	44.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	52.7	J	µg/kg dry	72.3	48.1	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.3	U	µg/kg dry	72.3	51.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	52.7	J	µg/kg dry	72.3	43.4	1	"	"	"	"	"	X
110-86-1	Pyridine	< 357	U	µg/kg dry	357	45.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 357	U	µg/kg dry	357	44.3	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 357	U	µg/kg dry	357	49.4	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	62			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	67			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	77			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	69			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	74			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	48			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 20.2	U	µg/kg dry	20.2	11.4	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 20.2	U	µg/kg dry	20.2	14.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.2	U	µg/kg dry	20.2	15.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.2	U	µg/kg dry	20.2	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.2	U	µg/kg dry	20.2	12.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.2	U	µg/kg dry	20.2	9.13	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.2	U	µg/kg dry	20.2	9.11	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.2	U	µg/kg dry	20.2	15.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.2	U	µg/kg dry	20.2	11.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-11 (Surface)

SC29309-01

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 09:06

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.629	J	mg/kg dry	1.51	0.158	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	7.42		mg/kg dry	1.51	0.401	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.438	J	mg/kg dry	0.504	0.0302	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.431	J	mg/kg dry	0.504	0.0254	1	"	"	"	"	"	X
7440-47-3	Chromium	11.4		mg/kg dry	1.01	0.130	1	"	"	"	"	"	X
7440-50-8	Copper	27.6		mg/kg dry	1.01	0.186	1	"	"	"	"	"	X
7439-97-6	Mercury	0.137		mg/kg dry	0.0293	0.0092	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	15.8		mg/kg dry	1.01	0.185	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	14.8		mg/kg dry	1.51	0.465	1	"	"	"	"	"	X
7440-36-0	Antimony	< 25.2	R01, U, D	mg/kg dry	25.2	2.04	5	"	"	19-Dec-16	"	"	X
7782-49-2	Selenium	1.34	J	mg/kg dry	1.51	0.402	1	"	"	16-Dec-16	"	"	X
7440-28-0	Thallium	< 3.02	U	mg/kg dry	3.02	0.681	1	"	"	"	"	"	X
7440-66-6	Zinc	49.9		mg/kg dry	1.01	0.922	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	91.2		%			1	SM2540 G (11) Mod.	12-Dec-16	12-Dec-16	EEM	1621693	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16 (Surface)

SC29309-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:14

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals		R01											
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 1800	U, D	µg/kg dry	1800	545	10	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 3550	U, D	µg/kg dry	3550	491	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1800	U, D	µg/kg dry	1800	452	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3550	U, D	µg/kg dry	3550	440	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3550	U, D	µg/kg dry	3550	468	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3550	U, D	µg/kg dry	3550	446	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3550	U, D	µg/kg dry	3550	513	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1800	U, D	µg/kg dry	1800	423	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1800	U, D	µg/kg dry	1800	461	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1800	U, D	µg/kg dry	1800	473	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1800	U, D	µg/kg dry	1800	457	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3550	U, D	µg/kg dry	3550	456	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1800	U, D	µg/kg dry	1800	469	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3550	U, D	µg/kg dry	3550	853	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 717	U, D	µg/kg dry	717	431	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1800	U, D	µg/kg dry	1800	521	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1800	U, D	µg/kg dry	1800	446	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 717	U, D	µg/kg dry	717	498	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1800	U, D	µg/kg dry	1800	647	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3550	U, D	µg/kg dry	3550	454	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3550	U, D	µg/kg dry	3550	595	10	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 717	U, D	µg/kg dry	717	481	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3550	U, D	µg/kg dry	3550	419	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1800	U, D	µg/kg dry	1800	440	10	"	"	"	"	"	X
83-32-9	Acenaphthene	< 717	U, D	µg/kg dry	717	475	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3550	U, D	µg/kg dry	3550	639	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1800	U, D	µg/kg dry	1800	463	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1800	U, D	µg/kg dry	1800	540	10	"	"	"	"	"	X
86-73-7	Fluorene	< 717	U, D	µg/kg dry	717	444	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3550	U, D	µg/kg dry	3550	473	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3550	U, D	µg/kg dry	3550	433	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1800	U, D	µg/kg dry	1800	707	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3550	U, D	µg/kg dry	3550	493	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3550	U, D	µg/kg dry	3550	441	10	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 3550	U, D	µg/kg dry	3550	441	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 717	U, D	µg/kg dry	717	445	10	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 1800	U, D	µg/kg dry	1800	419	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 717	U, D	µg/kg dry	717	433	10	"	"	"	"	"	X
120-12-7	Anthracene	< 717	U, D	µg/kg dry	717	467	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3550	U, D	µg/kg dry	3550	440	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 717	U, D	µg/kg dry	717	402	10	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16 (Surface)

SC29309-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 3550	U, D	µg/kg dry	3550	1530	10	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	< 717	U, D	µg/kg dry	717	376	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3550	U, D	µg/kg dry	3550	444	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3550	U, D	µg/kg dry	3550	519	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 717	U, D	µg/kg dry	717	401	10	"	"	"	"	"	X
218-01-9	Chrysene	< 717	U, D	µg/kg dry	717	369	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1800	U, D	µg/kg dry	1800	454	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1800	U, D	µg/kg dry	1800	421	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3550	U, D	µg/kg dry	3550	521	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 717	U, D	µg/kg dry	717	395	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 717	U, D	µg/kg dry	717	499	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 717	U, D	µg/kg dry	717	439	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 717	U, D	µg/kg dry	717	477	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 717	U, D	µg/kg dry	717	509	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 717	U, D	µg/kg dry	717	431	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3550	U, D	µg/kg dry	3550	448	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3550	U, D	µg/kg dry	3550	440	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 3550	U, D	µg/kg dry	3550	491	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	86			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	87			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	96			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	87			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	97			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	64			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 20.3	U	µg/kg dry	20.3	11.5	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 20.3	U	µg/kg dry	20.3	14.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.3	U	µg/kg dry	20.3	15.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.3	U	µg/kg dry	20.3	12.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.3	U	µg/kg dry	20.3	12.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.3	U	µg/kg dry	20.3	9.18	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.3	U	µg/kg dry	20.3	9.15	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.3	U	µg/kg dry	20.3	15.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.3	U	µg/kg dry	20.3	11.8	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16 (Surface)

SC29309-02

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.60	U	mg/kg dry	1.60	0.168	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	4.60		mg/kg dry	1.60	0.426	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.281	J	mg/kg dry	0.535	0.0321	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.181	J	mg/kg dry	0.535	0.0270	1	"	"	"	"	"	X
7440-47-3	Chromium	6.95		mg/kg dry	1.07	0.138	1	"	"	"	"	"	X
7440-50-8	Copper	14.6		mg/kg dry	1.07	0.198	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0698		mg/kg dry	0.0309	0.0097	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	8.08		mg/kg dry	1.07	0.197	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	15.3		mg/kg dry	1.60	0.494	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.35	U	mg/kg dry	5.35	0.433	1	"	"	"	"	"	X
7782-49-2	Selenium	0.519	J	mg/kg dry	1.60	0.427	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.21	U	mg/kg dry	3.21	0.723	1	"	"	"	"	"	X
7440-66-6	Zinc	28.2		mg/kg dry	1.07	0.980	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	92.7		%			1	SM2540 G (11) Mod.	12-Dec-16	12-Dec-16	EEM	1621693	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16

SC29309-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:32

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

EEM

1621500

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)

Initial weight: 7.47 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.01	U	µg/kg dry	5.01	1.47	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	31.0	J	µg/kg dry	50.1	21.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.01	U	µg/kg dry	5.01	4.82	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.01	U	µg/kg dry	5.01	1.33	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.01	U	µg/kg dry	5.01	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.01	U	µg/kg dry	5.01	2.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.01	U	µg/kg dry	5.01	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.01	U	µg/kg dry	5.01	4.78	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg dry	10.0	4.53	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg dry	10.0	8.96	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.01	U	µg/kg dry	5.01	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.01	U	µg/kg dry	5.01	0.94	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.01	U	µg/kg dry	5.01	1.11	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg dry	10.0	3.21	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.01	U	µg/kg dry	5.01	4.10	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.01	U	µg/kg dry	5.01	0.79	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg dry	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.01	U	µg/kg dry	5.01	2.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg dry	10.0	3.30	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.01	U	µg/kg dry	5.01	1.17	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.01	U	µg/kg dry	5.01	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg dry	10.0	7.24	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.01	U	µg/kg dry	5.01	3.40	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.01	U	µg/kg dry	5.01	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.01	U	µg/kg dry	5.01	2.61	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.01	U	µg/kg dry	5.01	2.19	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg dry	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.01	U	µg/kg dry	5.01	1.13	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.01	U	µg/kg dry	5.01	1.68	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.01	U	µg/kg dry	5.01	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.01	U	µg/kg dry	5.01	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.01	U	µg/kg dry	5.01	2.66	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.63	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.60	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.01	U	µg/kg dry	5.01	2.37	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.01	U	µg/kg dry	5.01	1.37	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.01	U	µg/kg dry	5.01	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.01	U	µg/kg dry	5.01	2.63	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16

SC29309-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:32

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.47 g

100-41-4	Ethylbenzene	< 5.01	U	µg/kg dry	5.01	0.79	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 5.01	U	µg/kg dry	5.01	2.52	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg dry	10.0	7.97	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.01	U	µg/kg dry	5.01	0.99	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.01	U	µg/kg dry	5.01	1.03	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.01	U	µg/kg dry	5.01	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg dry	10.0	4.21	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg dry	10.0	2.23	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.01	U	µg/kg dry	5.01	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.01	U	µg/kg dry	5.01	0.68	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.01	U	µg/kg dry	5.01	1.01	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.01	U	µg/kg dry	5.01	4.26	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.01	U	µg/kg dry	5.01	4.24	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.01	U	µg/kg dry	5.01	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.01	U	µg/kg dry	5.01	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.87	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	3.69	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.01	U	µg/kg dry	5.01	1.57	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.01	U	µg/kg dry	5.01	1.56	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.01	U	µg/kg dry	5.01	3.63	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.01	U	µg/kg dry	5.01	1.37	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.01	U	µg/kg dry	5.01	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.01	U	µg/kg dry	5.01	3.76	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.01	U	µg/kg dry	5.01	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.01	U	µg/kg dry	5.01	0.83	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.01	U	µg/kg dry	5.01	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg dry	10.0	1.01	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.01	U	µg/kg dry	5.01	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg dry	10.0	5.75	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.01	U	µg/kg dry	5.01	4.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.01	U	µg/kg dry	5.01	1.67	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.01	U	µg/kg dry	5.01	2.70	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.01	U	µg/kg dry	5.01	0.93	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.1	U	µg/kg dry	50.1	32.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg dry	100	87.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.1	U	µg/kg dry	25.1	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg dry	1000	187	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	96		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	115		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	98		70-130 %		"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16

SC29309-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:32

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals			R01										
Prepared by method SW846 3546													
62-75-9	N-Nitrosodimethylamine	< 2000	U, D	µg/kg dry	2000	606	10	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 3940	U, D	µg/kg dry	3940	545	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2000	U, D	µg/kg dry	2000	502	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3940	U, D	µg/kg dry	3940	489	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3940	U, D	µg/kg dry	3940	520	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3940	U, D	µg/kg dry	3940	495	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3940	U, D	µg/kg dry	3940	570	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2000	U, D	µg/kg dry	2000	470	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2000	U, D	µg/kg dry	2000	513	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2000	U, D	µg/kg dry	2000	526	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2000	U, D	µg/kg dry	2000	508	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3940	U, D	µg/kg dry	3940	507	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2000	U, D	µg/kg dry	2000	521	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3940	U, D	µg/kg dry	3940	948	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 797	U, D	µg/kg dry	797	478	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2000	U, D	µg/kg dry	2000	579	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2000	U, D	µg/kg dry	2000	496	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 797	U, D	µg/kg dry	797	553	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2000	U, D	µg/kg dry	2000	719	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3940	U, D	µg/kg dry	3940	504	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3940	U, D	µg/kg dry	3940	661	10	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 797	U, D	µg/kg dry	797	534	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3940	U, D	µg/kg dry	3940	465	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2000	U, D	µg/kg dry	2000	489	10	"	"	"	"	"	X
83-32-9	Acenaphthene	< 797	U, D	µg/kg dry	797	528	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3940	U, D	µg/kg dry	3940	710	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2000	U, D	µg/kg dry	2000	514	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2000	U, D	µg/kg dry	2000	600	10	"	"	"	"	"	X
86-73-7	Fluorene	< 797	U, D	µg/kg dry	797	494	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3940	U, D	µg/kg dry	3940	525	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3940	U, D	µg/kg dry	3940	481	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2000	U, D	µg/kg dry	2000	786	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3940	U, D	µg/kg dry	3940	547	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3940	U, D	µg/kg dry	3940	490	10	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 3940	U, D	µg/kg dry	3940	490	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 797	U, D	µg/kg dry	797	494	10	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 2000	U, D	µg/kg dry	2000	466	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 797	U, D	µg/kg dry	797	481	10	"	"	"	"	"	X
120-12-7	Anthracene	< 797	U, D	µg/kg dry	797	519	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3940	U, D	µg/kg dry	3940	489	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 797	U, D	µg/kg dry	797	447	10	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16

SC29309-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:32

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

R01

92-87-5	Benzidine	< 3940	U, D	µg/kg dry	3940	1700	10	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	613	J, D	µg/kg dry	797	418	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3940	U, D	µg/kg dry	3940	494	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3940	U, D	µg/kg dry	3940	577	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	458	J, D	µg/kg dry	797	446	10	"	"	"	"	"	X
218-01-9	Chrysene	534	J, D	µg/kg dry	797	410	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2000	U, D	µg/kg dry	2000	504	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2000	U, D	µg/kg dry	2000	468	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3940	U, D	µg/kg dry	3940	579	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 797	U, D	µg/kg dry	797	439	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 797	U, D	µg/kg dry	797	555	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 797	U, D	µg/kg dry	797	488	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 797	U, D	µg/kg dry	797	530	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 797	U, D	µg/kg dry	797	565	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 797	U, D	µg/kg dry	797	479	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3940	U, D	µg/kg dry	3940	498	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3940	U, D	µg/kg dry	3940	489	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 3940	U, D	µg/kg dry	3940	545	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	85			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	93			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	93			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	90			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	87			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	63			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.2	U	µg/kg dry	23.2	13.1	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 23.2	U	µg/kg dry	23.2	17.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.2	U	µg/kg dry	23.2	17.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.2	U	µg/kg dry	23.2	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.2	U	µg/kg dry	23.2	14.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.2	U	µg/kg dry	23.2	10.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.2	U	µg/kg dry	23.2	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.2	U	µg/kg dry	23.2	17.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.2	U	µg/kg dry	23.2	13.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	125			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	125			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-16

SC29309-03

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 11:32

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	0.650	J	mg/kg dry	1.69	0.177	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	6.49		mg/kg dry	1.69	0.450	1	"	"	"	"	"	X
7440-39-3	Barium	59.4		mg/kg dry	1.13	0.167	1	"	"	19-Dec-16	"	"	X
7440-43-9	Cadmium	0.391	J	mg/kg dry	0.565	0.0285	1	"	"	16-Dec-16	"	"	X
7440-47-3	Chromium	13.3		mg/kg dry	1.13	0.146	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0408		mg/kg dry	0.0321	0.0101	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	9.42		mg/kg dry	1.69	0.522	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7782-49-2	Selenium	1.28	J	mg/kg dry	1.69	0.451	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	83.4		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-01

SC29309-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:14

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

EEM

1621500

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)Initial weight: 5.41 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.65	U	µg/kg dry	6.65	1.95	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	< 66.5	U	µg/kg dry	66.5	28.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.65	U	µg/kg dry	6.65	6.39	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.65	U	µg/kg dry	6.65	1.76	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.65	U	µg/kg dry	6.65	1.78	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.65	U	µg/kg dry	6.65	3.36	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.65	U	µg/kg dry	6.65	4.43	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.65	U	µg/kg dry	6.65	6.34	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.3	U	µg/kg dry	13.3	6.00	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.3	U	µg/kg dry	13.3	11.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.90	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.24	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.47	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.3	U	µg/kg dry	13.3	4.26	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.65	U	µg/kg dry	6.65	5.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.65	U	µg/kg dry	6.65	1.04	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.3	U	µg/kg dry	13.3	3.69	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.65	U	µg/kg dry	6.65	3.57	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.3	U	µg/kg dry	13.3	4.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.65	U	µg/kg dry	6.65	1.55	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.65	U	µg/kg dry	6.65	1.56	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.3	U	µg/kg dry	13.3	9.61	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.65	U	µg/kg dry	6.65	4.51	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.65	U	µg/kg dry	6.65	4.46	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.65	U	µg/kg dry	6.65	3.46	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	1.73	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	1.35	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	2.91	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.3	U	µg/kg dry	13.3	2.52	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.65	U	µg/kg dry	6.65	1.50	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.65	U	µg/kg dry	6.65	2.23	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.65	U	µg/kg dry	6.65	3.48	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.65	U	µg/kg dry	6.65	2.47	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.65	U	µg/kg dry	6.65	3.52	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.48	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.44	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.14	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.65	U	µg/kg dry	6.65	1.82	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.65	U	µg/kg dry	6.65	4.01	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.65	U	µg/kg dry	6.65	3.49	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-01

SC29309-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 5.41 g													
100-41-4	Ethylbenzene	< 6.65	U	µg/kg dry	6.65	1.04	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
87-68-3	Hexachlorobutadiene	< 6.65	U	µg/kg dry	6.65	3.34	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.3	U	µg/kg dry	13.3	10.6	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.65	U	µg/kg dry	6.65	1.31	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.65	U	µg/kg dry	6.65	1.37	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.65	U	µg/kg dry	6.65	2.45	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.3	U	µg/kg dry	13.3	5.58	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.3	U	µg/kg dry	13.3	2.96	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.65	U	µg/kg dry	6.65	3.96	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.65	U	µg/kg dry	6.65	0.90	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.65	U	µg/kg dry	6.65	1.34	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.65	U	µg/kg dry	6.65	5.65	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.65	U	µg/kg dry	6.65	5.62	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.65	U	µg/kg dry	6.65	2.27	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.65	U	µg/kg dry	6.65	2.15	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	2.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	4.90	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	2.09	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.65	U	µg/kg dry	6.65	2.07	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.65	U	µg/kg dry	6.65	4.82	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.65	U	µg/kg dry	6.65	1.82	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.65	U	µg/kg dry	6.65	3.58	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.65	U	µg/kg dry	6.65	4.99	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.65	U	µg/kg dry	6.65	1.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.65	U	µg/kg dry	6.65	1.10	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.65	U	µg/kg dry	6.65	2.25	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.3	U	µg/kg dry	13.3	1.34	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.65	U	µg/kg dry	6.65	1.86	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.3	U	µg/kg dry	13.3	7.63	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.65	U	µg/kg dry	6.65	6.02	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.65	U	µg/kg dry	6.65	2.22	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.65	U	µg/kg dry	6.65	3.58	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.65	U	µg/kg dry	6.65	1.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 66.5	U	µg/kg dry	66.5	43.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 133	U	µg/kg dry	133	115	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 33.2	U	µg/kg dry	33.2	15.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1330	U	µg/kg dry	1330	248	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96			70-130 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-01

SC29309-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
<u>Prepared by method SW846 3546</u>													
62-75-9	N-Nitrosodimethylamine	< 201	U	µg/kg dry	201	61.1	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 398	U	µg/kg dry	398	55.0	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 201	U	µg/kg dry	201	50.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 398	U	µg/kg dry	398	49.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 398	U	µg/kg dry	398	52.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 398	U	µg/kg dry	398	49.9	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 398	U	µg/kg dry	398	57.5	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 201	U	µg/kg dry	201	47.4	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 201	U	µg/kg dry	201	51.7	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 201	U	µg/kg dry	201	53.0	1	"	"	"	"	"	X
78-59-1	Isophorone	< 201	U	µg/kg dry	201	51.2	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 398	U	µg/kg dry	398	51.1	1	"	"	"	"	"	X
86-74-8	Carbazole	< 201	U	µg/kg dry	201	52.5	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 398	U	µg/kg dry	398	95.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 80.4	U	µg/kg dry	80.4	48.3	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 201	U	µg/kg dry	201	58.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 201	U	µg/kg dry	201	50.0	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 80.4	U	µg/kg dry	80.4	55.8	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 201	U	µg/kg dry	201	72.6	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 398	U	µg/kg dry	398	50.8	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 398	U	µg/kg dry	398	66.7	1	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 80.4	U	µg/kg dry	80.4	53.9	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 398	U	µg/kg dry	398	46.9	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 201	U	µg/kg dry	201	49.3	1	"	"	"	"	"	X
83-32-9	Acenaphthene	< 80.4	U	µg/kg dry	80.4	53.3	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 398	U	µg/kg dry	398	71.6	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 201	U	µg/kg dry	201	51.9	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 201	U	µg/kg dry	201	60.5	1	"	"	"	"	"	X
86-73-7	Fluorene	< 80.4	U	µg/kg dry	80.4	49.8	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 398	U	µg/kg dry	398	53.0	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 398	U	µg/kg dry	398	48.5	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 201	U	µg/kg dry	201	79.2	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 398	U	µg/kg dry	398	55.2	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 398	U	µg/kg dry	398	49.4	1	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 398	U	µg/kg dry	398	49.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 80.4	U	µg/kg dry	80.4	49.8	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 201	U	µg/kg dry	201	47.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	63.1	J	µg/kg dry	80.4	48.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 80.4	U	µg/kg dry	80.4	52.3	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 398	U	µg/kg dry	398	49.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	104		µg/kg dry	80.4	45.1	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-01

SC29309-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

92-87-5	Benzidine	< 398	U	µg/kg dry	398	171	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	103		µg/kg dry	80.4	42.1	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 398	U	µg/kg dry	398	49.8	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 398	U	µg/kg dry	398	58.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	61.9	J	µg/kg dry	80.4	45.0	1	"	"	"	"	"	X
218-01-9	Chrysene	71.9	J	µg/kg dry	80.4	41.3	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 201	U	µg/kg dry	201	50.9	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 201	U	µg/kg dry	201	47.2	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 398	U	µg/kg dry	398	58.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	102		µg/kg dry	80.4	44.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	59.1	J	µg/kg dry	80.4	55.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	75.5	J	µg/kg dry	80.4	49.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	62.3	J	µg/kg dry	80.4	53.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 80.4	U	µg/kg dry	80.4	57.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	61.9	J	µg/kg dry	80.4	48.3	1	"	"	"	"	"	X
110-86-1	Pyridine	< 398	U	µg/kg dry	398	50.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 398	U	µg/kg dry	398	49.3	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 398	U	µg/kg dry	398	55.0	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	51			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	56			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	58			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	58			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	61			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	51			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.4	U	µg/kg dry	23.4	13.2	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 23.4	U	µg/kg dry	23.4	17.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.4	U	µg/kg dry	23.4	17.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.4	U	µg/kg dry	23.4	14.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.4	U	µg/kg dry	23.4	14.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.4	U	µg/kg dry	23.4	10.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.4	U	µg/kg dry	23.4	10.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4	U	µg/kg dry	23.4	17.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4	U	µg/kg dry	23.4	13.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-01

SC29309-04

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:14

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	0.311	J	mg/kg dry	1.67	0.174	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	4.15		mg/kg dry	1.67	0.442	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.506	J	mg/kg dry	0.555	0.0333	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.285	J	mg/kg dry	0.555	0.0280	1	"	"	"	"	"	X
7440-47-3	Chromium	12.7		mg/kg dry	1.11	0.143	1	"	"	"	"	"	X
7440-50-8	Copper	25.7		mg/kg dry	1.11	0.206	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0504		mg/kg dry	0.0335	0.0105	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X

Prepared by method SW846 3050B

7440-02-0	Nickel	16.7		mg/kg dry	1.11	0.204	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	13.5		mg/kg dry	1.67	0.513	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.55	U	mg/kg dry	5.55	0.450	1	"	"	"	"	"	X
7782-49-2	Selenium	0.611	J	mg/kg dry	1.67	0.443	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.33	U	mg/kg dry	3.33	0.751	1	"	"	"	"	"	X
7440-66-6	Zinc	46.6		mg/kg dry	1.11	1.02	1	"	"	"	"	"	X

General Chemistry Parameters

% Solids	82.6			%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	
----------	------	--	--	---	--	--	---	-----------------------	-----------	-----------	-----	---------	--

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
VOC Extraction		Lab extracted		N/A			1	VOC Soil Extraction	16-Dec-16		EEM	1622070	
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 18.68 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 47.6	UJL, U, D	µg/kg dry	47.6	14.0	50	SW846 8260C	19-Dec-16	19-Dec-16	MP	1622138	X
67-64-1	Acetone	< 476	UJL, U, D	µg/kg dry	476	203	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 47.6	UJL, U, D	µg/kg dry	47.6	45.7	50	"	"	"	"	"	X
71-43-2	Benzene	< 47.6	UJL, U, D	µg/kg dry	47.6	12.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	12.7	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 47.6	UJL, U, D	µg/kg dry	47.6	24.0	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 47.6	UJL, U, D	µg/kg dry	47.6	31.7	50	"	"	"	"	"	X
75-25-2	Bromoform	< 47.6	UJL, U, D	µg/kg dry	47.6	45.4	50	"	"	"	"	"	X
74-83-9	Bromomethane	71.4	UJL, J, D	µg/kg dry	95.2	43.0	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 95.2	UJL, U, D	µg/kg dry	95.2	85.1	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	13.6	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	17.1	UJL, J, D	µg/kg dry	47.6	8.90	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	14.3	UJL, J, D	µg/kg dry	47.6	10.5	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 95.2	UJL, U, D	µg/kg dry	95.2	30.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 47.6	UJL, U, D	µg/kg dry	47.6	38.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	7.47	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 95.2	UJL, U, D	µg/kg dry	95.2	26.4	50	"	"	"	"	"	X
67-66-3	Chloroform	< 47.6	UJL, U, D	µg/kg dry	47.6	25.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 95.2	UJL, U, D	µg/kg dry	95.2	31.3	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 47.6	UJL, U, D	µg/kg dry	47.6	11.1	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 47.6	UJL, U, D	µg/kg dry	47.6	11.2	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 95.2	UJL, U, D	µg/kg dry	95.2	68.8	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 47.6	UJL, U, D	µg/kg dry	47.6	32.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 47.6	UJL, U, D	µg/kg dry	47.6	31.9	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 47.6	UJL, U, D	µg/kg dry	47.6	24.7	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	12.4	50	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8										
						Initial weight: 18.68 g							
541-73-1	1,3-Dichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	9.66	50	SW846 8260C	19-Dec-16	19-Dec-16	MP	1622138	X
106-46-7	1,4-Dichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	20.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 95.2	UJL, U, D	µg/kg dry	95.2	18.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	10.8	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	16.0	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 47.6	UJL, U, D	µg/kg dry	47.6	24.9	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 47.6	UJL, U, D	µg/kg dry	47.6	17.7	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 47.6	UJL, U, D	µg/kg dry	47.6	25.2	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 47.6	UJL, U, D	µg/kg dry	47.6	24.9	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 47.6	UJL, U, D	µg/kg dry	47.6	24.7	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 47.6	UJL, U, D	µg/kg dry	47.6	22.5	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 47.6	UJL, U, D	µg/kg dry	47.6	13.0	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 47.6	UJL, U, D	µg/kg dry	47.6	28.7	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 47.6	UJL, U, D	µg/kg dry	47.6	25.0	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	7.47	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 47.6	UJL, U, D	µg/kg dry	47.6	23.9	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 95.2	UJL, U, D	µg/kg dry	95.2	75.7	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	9.38	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	20.5	UJL, J, D	µg/kg dry	47.6	9.80	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 47.6	UJL, U, D	µg/kg dry	47.6	17.5	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 95.2	UJL, U, D	µg/kg dry	95.2	40.0	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 95.2	UJL, U, D	µg/kg dry	95.2	21.2	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 47.6	UJL, U, D	µg/kg dry	47.6	28.3	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	6.47	50	"	"	"	"	"	X
100-42-5	Styrene	< 47.6	UJL, U, D	µg/kg dry	47.6	9.57	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	40.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	40.3	50	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8				Initial weight: 18.68 g						
127-18-4	Tetrachloroethene	< 47.6	UJL, U, D	µg/kg dry	47.6	16.3	50	SW846 8260C	19-Dec-16	19-Dec-16	MP	1622138	X
108-88-3	Toluene	< 47.6	UJL, U, D	µg/kg dry	47.6	15.4	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	17.8	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	35.1	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	14.9	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	14.8	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 47.6	UJL, U, D	µg/kg dry	47.6	34.5	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 47.6	UJL, U, D	µg/kg dry	47.6	13.0	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 47.6	UJL, U, D	µg/kg dry	47.6	25.7	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 47.6	UJL, U, D	µg/kg dry	47.6	35.7	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	17.6	UJL, J, D	µg/kg dry	47.6	11.6	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 47.6	UJL, U, D	µg/kg dry	47.6	7.85	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 47.6	UJL, U, D	µg/kg dry	47.6	16.1	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 95.2	UJL, U, D	µg/kg dry	95.2	9.57	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 47.6	UJL, U, D	µg/kg dry	47.6	13.3	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 95.2	UJL, U, D	µg/kg dry	95.2	54.6	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 47.6	UJL, U, D	µg/kg dry	47.6	43.1	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 47.6	UJL, U, D	µg/kg dry	47.6	15.9	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 47.6	UJL, U, D	µg/kg dry	47.6	25.7	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 47.6	UJL, U, D	µg/kg dry	47.6	8.85	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 476	UJL, U, D	µg/kg dry	476	311	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 952	UJL, U, D	µg/kg dry	952	827	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 238	UJL, U, D	µg/kg dry	238	109	50	"	"	"	"	"	X
64-17-5	Ethanol	< 9520	UJL, U, D	µg/kg dry	9520	1780	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	94			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	90			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	95			70-130 %			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
<u>Prepared by method SW846 3546</u>													
62-75-9	N-Nitrosodimethylamine	< 179	U	µg/kg dry	179	54.3	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
62-53-3	Aniline	< 353	U	µg/kg dry	353	48.8	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 179	U	µg/kg dry	179	45.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 353	U	µg/kg dry	353	43.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 353	U	µg/kg dry	353	46.6	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 353	U	µg/kg dry	353	44.4	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 353	U	µg/kg dry	353	51.1	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 179	U	µg/kg dry	179	42.1	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 179	U	µg/kg dry	179	45.9	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 179	U	µg/kg dry	179	47.1	1	"	"	"	"	"	X
78-59-1	Isophorone	< 179	U	µg/kg dry	179	45.5	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 353	U	µg/kg dry	353	45.4	1	"	"	"	"	"	X
86-74-8	Carbazole	< 179	U	µg/kg dry	179	46.7	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 353	U	µg/kg dry	353	85.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.4	U	µg/kg dry	71.4	42.9	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 179	U	µg/kg dry	179	51.9	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 179	U	µg/kg dry	179	44.4	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 71.4	U	µg/kg dry	71.4	49.6	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 179	U	µg/kg dry	179	64.5	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 353	U	µg/kg dry	353	45.2	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 353	U	µg/kg dry	353	59.2	1	"	"	"	"	"	X
208-96-8	Acenaphthylene	< 71.4	U	µg/kg dry	71.4	47.9	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 353	U	µg/kg dry	353	41.7	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 179	U	µg/kg dry	179	43.8	1	"	"	"	"	"	X
83-32-9	Acenaphthene	< 71.4	U	µg/kg dry	71.4	47.3	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 353	U	µg/kg dry	353	63.6	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 179	U	µg/kg dry	179	46.1	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 179	U	µg/kg dry	179	53.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 71.4	U	µg/kg dry	71.4	44.2	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 353	U	µg/kg dry	353	47.1	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 353	U	µg/kg dry	353	43.1	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 179	U	µg/kg dry	179	70.4	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 353	U	µg/kg dry	353	49.0	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 353	U	µg/kg dry	353	43.9	1	"	"	"	"	"	
101-55-3	4-Bromophenyl phenyl ether	< 353	U	µg/kg dry	353	43.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 71.4	U	µg/kg dry	71.4	44.3	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 179	U	µg/kg dry	179	41.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 71.4	U	µg/kg dry	71.4	43.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 71.4	U	µg/kg dry	71.4	46.5	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 353	U	µg/kg dry	353	43.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 71.4	U	µg/kg dry	71.4	40.0	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

92-87-5	Benzidine	< 353	U	µg/kg dry	353	152	1	SW846 8270D	08-Dec-16	13-Dec-16	MSL	1621474	X
129-00-0	Pyrene	< 71.4	U	µg/kg dry	71.4	37.4	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 353	U	µg/kg dry	353	44.2	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 353	U	µg/kg dry	353	51.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 71.4	U	µg/kg dry	71.4	39.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 71.4	U	µg/kg dry	71.4	36.7	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 179	U	µg/kg dry	179	45.2	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 179	U	µg/kg dry	179	41.9	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 353	U	µg/kg dry	353	51.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 71.4	U	µg/kg dry	71.4	39.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 71.4	U	µg/kg dry	71.4	49.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 71.4	U	µg/kg dry	71.4	43.7	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 71.4	U	µg/kg dry	71.4	47.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.4	U	µg/kg dry	71.4	50.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 71.4	U	µg/kg dry	71.4	42.9	1	"	"	"	"	"	X
110-86-1	Pyridine	< 353	U	µg/kg dry	353	44.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 353	U	µg/kg dry	353	43.8	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 353	U	µg/kg dry	353	48.8	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	57			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	64			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	61			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	62			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	67			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	62			30-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 20.0	U	µg/kg dry	20.0	11.3	1	SW846 8082A	09-Dec-16	12-Dec-16	TG	1621521	X
11104-28-2	Aroclor-1221	< 20.0	U	µg/kg dry	20.0	14.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.0	U	µg/kg dry	20.0	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.0	U	µg/kg dry	20.0	12.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.0	U	µg/kg dry	20.0	12.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.0	U	µg/kg dry	20.0	9.04	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.0	U	µg/kg dry	20.0	9.02	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.0	U	µg/kg dry	20.0	15.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.0	U	µg/kg dry	20.0	11.7	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SP-02

SC29309-05

Client Project #

16-319

Matrix

Soil

Collection Date/Time

07-Dec-16 13:25

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.59	U	mg/kg dry	1.59	0.167	1	SW846 6010C	15-Dec-16	16-Dec-16	edt	1621824	X
7440-38-2	Arsenic	2.64		mg/kg dry	1.59	0.422	1	"	"	"	"	"	X
7440-41-7	Beryllium	0.387	J	mg/kg dry	0.530	0.0318	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.156	J	mg/kg dry	0.530	0.0267	1	"	"	"	"	"	X
7440-47-3	Chromium	7.41		mg/kg dry	1.06	0.137	1	"	"	"	"	"	X
7440-50-8	Copper	11.7		mg/kg dry	1.06	0.196	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0577		mg/kg dry	0.0305	0.0096	1	SW846 7471B	"	20-Dec-16	SMR	1621825	X
<u>Prepared by method SW846 3050B</u>													
7440-02-0	Nickel	8.52		mg/kg dry	1.06	0.195	1	SW846 6010C	"	16-Dec-16	edt	1621824	X
7439-92-1	Lead	7.62		mg/kg dry	1.59	0.490	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.30	U	mg/kg dry	5.30	0.430	1	"	"	"	"	"	X
7782-49-2	Selenium	< 1.59	U	mg/kg dry	1.59	0.423	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.18	U	mg/kg dry	3.18	0.717	1	"	"	"	"	"	X
7440-66-6	Zinc	28.5		mg/kg dry	1.06	0.972	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	92.4		%			1	SM2540 G (11) Mod.	08-Dec-16	08-Dec-16	EEM	1621495	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank

SC29309-06

Client Project #

16-319

MatrixMethanol/Deionized
WaterCollection Date/Time

07-Dec-16 00:00

Received

07-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	1.47	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	21.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.94	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.10	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	0.78	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	3.29	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.16	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.02	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	2.18	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.13	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.68	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.37	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.78	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	7.95	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank

SC29309-06

Client Project #

16-319

MatrixMethanol/Deionized
WaterCollection Date/Time

07-Dec-16 00:00

Received

07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
98-82-8	Isopropylbenzene	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	09-Dec-16	09-Dec-16	EK	1621537	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.03	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	4.20	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	2.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.68	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.87	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.82	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	1.00	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	5.74	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	106			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	92			70-130 %		"	"	"	"	"	"	

Re-analysis of Volatile Organic Compounds

by SW846 8260

Prepared by method SW846 5035A Soil (high level)

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0	14.7	50	SW846 8260C	15-Dec-16	15-Dec-16	GMA	1621949	X
---------	--	--------	------	-----------	------	------	----	-------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank
SC29309-06

Client Project #
16-319

Matrix
Methanol/Deionized
Water

Collection Date/Time
07-Dec-16 00:00

Received
07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u> <u>by SW846 8260</u>													
67-64-1	Acetone	< 500	U, D	µg/kg wet	500	213	50	SW846 8260C	15-Dec-16	15-Dec-16	GMA	1621949	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0	48.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 50.0	U, D	µg/kg wet	50.0	13.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 50.0	U, D	µg/kg wet	50.0	13.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0	25.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 100	U, D	µg/kg wet	100	89.4	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	14.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.35	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	11.0	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 100	U, D	µg/kg wet	100	32.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	7.85	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	32.9	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.8	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloroprop ane	< 100	U, D	µg/kg wet	100	72.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0	33.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 50.0	U, D	µg/kg wet	50.0	26.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.2	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	21.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	11.3	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.8	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	25.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	23.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	13.7	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0	7.85	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0	25.1	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100	79.5	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.85	50	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank
SC29309-06

Client Project #
16-319

Matrix
Methanol/Deionized
Water

Collection Date/Time
07-Dec-16 00:00

Received
07-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u> <u>by SW846 8260</u>													
99-87-6	4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0	10.3	50	SW846 8260C	15-Dec-16	15-Dec-16	GMA	1621949	X
1634-04-4	Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	18.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100	42.0	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	22.2	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.0	U, D	µg/kg wet	50.0	29.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0	6.80	50	"	"	"	"	"	X
100-42-5	Styrene	< 50.0	U, D	µg/kg wet	50.0	10.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 50.0	U, D	µg/kg wet	50.0	16.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	18.7	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	36.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.7	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0	37.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	12.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.25	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 100	U, D	µg/kg wet	100	10.0	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 50.0	U, D	µg/kg wet	50.0	14.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 100	U, D	µg/kg wet	100	57.4	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 50.0	U, D	µg/kg wet	50.0	45.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0	16.7	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0	9.30	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500	327	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1000	U, D	µg/kg wet	1000	868	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	U, D	µg/kg wet	250	114	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	U, D	µg/kg wet	10000	1860	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	101		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	98		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	105		70-130 %		"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
Blank (1621537-BLK1)					Prepared & Analyzed: 09-Dec-16					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
Blank (1621537-BLK1)	Prepared & Analyzed: 09-Dec-16									
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.4</i>		<i>µg/kg</i>		<i>50.0</i>		<i>99</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55.0</i>		<i>µg/kg</i>		<i>50.0</i>		<i>110</i>	<i>70-130</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>47.9</i>		<i>µg/kg</i>		<i>50.0</i>		<i>96</i>	<i>70-130</i>		
LCS (1621537-BS1)	Prepared & Analyzed: 09-Dec-16									
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.8		<i>µg/kg</i>		20.0		84	70-130		
Acetone	18.2		<i>µg/kg</i>		20.0		91	70-130		
Acrylonitrile	18.2		<i>µg/kg</i>		20.0		91	70-130		
Benzene	17.3		<i>µg/kg</i>		20.0		86	70-130		
Bromobenzene	19.0		<i>µg/kg</i>		20.0		95	70-130		
Bromochloromethane	20.3		<i>µg/kg</i>		20.0		101	70-130		
Bromodichloromethane	16.8		<i>µg/kg</i>		20.0		84	70-130		
Bromoform	18.7		<i>µg/kg</i>		20.0		94	70-130		
Bromomethane	16.1		<i>µg/kg</i>		20.0		81	70-130		
2-Butanone (MEK)	19.1		<i>µg/kg</i>		20.0		95	70-130		
n-Butylbenzene	18.2		<i>µg/kg</i>		20.0		91	70-130		
sec-Butylbenzene	19.6		<i>µg/kg</i>		20.0		98	70-130		
tert-Butylbenzene	20.0		<i>µg/kg</i>		20.0		100	70-130		
Carbon disulfide	23.9		<i>µg/kg</i>		20.0		119	70-130		
Carbon tetrachloride	17.5		<i>µg/kg</i>		20.0		88	70-130		
Chlorobenzene	18.4		<i>µg/kg</i>		20.0		92	70-130		
Chloroethane	17.6		<i>µg/kg</i>		20.0		88	70-130		
Chloroform	16.8		<i>µg/kg</i>		20.0		84	70-130		
Chloromethane	16.1		<i>µg/kg</i>		20.0		80	70-130		
2-Chlorotoluene	16.3		<i>µg/kg</i>		20.0		82	70-130		
4-Chlorotoluene	19.6		<i>µg/kg</i>		20.0		98	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS (1621537-BS1)</u>	<u>Prepared & Analyzed: 09-Dec-16</u>									
1,2-Dibromo-3-chloropropane	18.0		µg/kg		20.0		90	70-130		
Dibromochloromethane	16.7		µg/kg		20.0		84	70-130		
1,2-Dibromoethane (EDB)	18.6		µg/kg		20.0		93	70-130		
Dibromomethane	17.1		µg/kg		20.0		86	70-130		
1,2-Dichlorobenzene	18.5		µg/kg		20.0		92	70-130		
1,3-Dichlorobenzene	20.9		µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	18.3		µg/kg		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	23.0		µg/kg		20.0		115	70-130		
1,1-Dichloroethane	16.9		µg/kg		20.0		85	70-130		
1,2-Dichloroethane	16.6		µg/kg		20.0		83	70-130		
1,1-Dichloroethene	17.7		µg/kg		20.0		88	70-130		
cis-1,2-Dichloroethene	17.8		µg/kg		20.0		89	70-130		
trans-1,2-Dichloroethene	17.4		µg/kg		20.0		87	70-130		
1,2-Dichloropropane	16.3		µg/kg		20.0		81	70-130		
1,3-Dichloropropane	16.8		µg/kg		20.0		84	70-130		
2,2-Dichloropropane	19.6		µg/kg		20.0		98	70-130		
1,1-Dichloropropene	16.4		µg/kg		20.0		82	70-130		
cis-1,3-Dichloropropene	16.7		µg/kg		20.0		84	70-130		
trans-1,3-Dichloropropene	16.5		µg/kg		20.0		82	70-130		
Ethylbenzene	17.5		µg/kg		20.0		88	70-130		
Hexachlorobutadiene	18.8		µg/kg		20.0		94	70-130		
2-Hexanone (MBK)	16.7		µg/kg		20.0		84	70-130		
Isopropylbenzene	19.7		µg/kg		20.0		98	70-130		
4-Isopropyltoluene	23.1		µg/kg		20.0		115	70-130		
Methyl tert-butyl ether	17.9		µg/kg		20.0		89	70-130		
4-Methyl-2-pentanone (MIBK)	16.4		µg/kg		20.0		82	70-130		
Methylene chloride	20.4		µg/kg		20.0		102	70-130		
Naphthalene	23.0		µg/kg		20.0		115	70-130		
n-Propylbenzene	19.3		µg/kg		20.0		97	70-130		
Styrene	19.4		µg/kg		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	20.1		µg/kg		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	18.1		µg/kg		20.0		91	70-130		
Tetrachloroethene	18.0		µg/kg		20.0		90	70-130		
Toluene	17.0		µg/kg		20.0		85	70-130		
1,2,3-Trichlorobenzene	20.6		µg/kg		20.0		103	70-130		
1,2,4-Trichlorobenzene	20.3		µg/kg		20.0		101	70-130		
1,3,5-Trichlorobenzene	20.1		µg/kg		20.0		101	70-130		
1,1,1-Trichloroethane	16.6		µg/kg		20.0		83	70-130		
1,1,2-Trichloroethane	17.3		µg/kg		20.0		87	70-130		
Trichloroethene	17.7		µg/kg		20.0		89	70-130		
Trichlorofluoromethane (Freon 11)	16.2		µg/kg		20.0		81	70-130		
1,2,3-Trichloropropane	18.7		µg/kg		20.0		93	70-130		
1,2,4-Trimethylbenzene	20.1		µg/kg		20.0		100	70-130		
1,3,5-Trimethylbenzene	20.0		µg/kg		20.0		100	70-130		
Vinyl chloride	16.5		µg/kg		20.0		82	70-130		
m,p-Xylene	19.6		µg/kg		20.0		98	70-130		
o-Xylene	19.8		µg/kg		20.0		99	70-130		
Tetrahydrofuran	16.7		µg/kg		20.0		84	70-130		
Ethyl ether	16.2		µg/kg		20.0		81	70-130		
Tert-amyl methyl ether	14.9		µg/kg		20.0		75	70-130		
Ethyl tert-butyl ether	17.3		µg/kg		20.0		87	70-130		
Di-isopropyl ether	16.8		µg/kg		20.0		84	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS (1621537-BS1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
Tert-Butanol / butyl alcohol	163		µg/kg		200		81	70-130		
1,4-Dioxane	182		µg/kg		200		91	70-130		
trans-1,4-Dichloro-2-butene	20.4		µg/kg		20.0		102	70-130		
Ethanol	348		µg/kg		400		87	70-130		
Surrogate: 4-Bromofluorobenzene	53.2		µg/kg		50.0		106	70-130		
Surrogate: Toluene-d8	50.1		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.4		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.2		µg/kg		50.0		98	70-130		
<u>LCS Dup (1621537-BSD1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.0		µg/kg		20.0		85	70-130	0.9	30
Acetone	17.7		µg/kg		20.0		89	70-130	2	30
Acrylonitrile	17.5		µg/kg		20.0		88	70-130	4	30
Benzene	18.1		µg/kg		20.0		91	70-130	5	30
Bromobenzene	20.4		µg/kg		20.0		102	70-130	7	30
Bromochloromethane	20.7		µg/kg		20.0		104	70-130	2	30
Bromodichloromethane	17.7		µg/kg		20.0		88	70-130	5	30
Bromoform	20.0		µg/kg		20.0		100	70-130	7	30
Bromomethane	17.0		µg/kg		20.0		85	70-130	5	30
2-Butanone (MEK)	20.3		µg/kg		20.0		101	70-130	6	30
n-Butylbenzene	22.3		µg/kg		20.0		112	70-130	20	30
sec-Butylbenzene	21.3		µg/kg		20.0		107	70-130	8	30
tert-Butylbenzene	21.8		µg/kg		20.0		109	70-130	8	30
Carbon disulfide	22.5		µg/kg		20.0		113	70-130	6	30
Carbon tetrachloride	18.0		µg/kg		20.0		90	70-130	3	30
Chlorobenzene	19.7		µg/kg		20.0		99	70-130	7	30
Chloroethane	16.4		µg/kg		20.0		82	70-130	7	30
Chloroform	17.3		µg/kg		20.0		86	70-130	3	30
Chloromethane	16.6		µg/kg		20.0		83	70-130	3	30
2-Chlorotoluene	17.6		µg/kg		20.0		88	70-130	7	30
4-Chlorotoluene	21.3		µg/kg		20.0		106	70-130	8	30
1,2-Dibromo-3-chloropropane	20.6		µg/kg		20.0		103	70-130	13	30
Dibromochloromethane	17.7		µg/kg		20.0		89	70-130	6	30
1,2-Dibromoethane (EDB)	19.2		µg/kg		20.0		96	70-130	3	30
Dibromomethane	17.3		µg/kg		20.0		86	70-130	1	30
1,2-Dichlorobenzene	23.1		µg/kg		20.0		116	70-130	22	30
1,3-Dichlorobenzene	22.6		µg/kg		20.0		113	70-130	8	30
1,4-Dichlorobenzene	22.4		µg/kg		20.0		112	70-130	20	30
Dichlorodifluoromethane (Freon12)	18.4		µg/kg		20.0		92	70-130	22	30
1,1-Dichloroethane	17.4		µg/kg		20.0		87	70-130	3	30
1,2-Dichloroethane	17.3		µg/kg		20.0		87	70-130	4	30
1,1-Dichloroethene	18.4		µg/kg		20.0		92	70-130	4	30
cis-1,2-Dichloroethene	18.3		µg/kg		20.0		91	70-130	3	30
trans-1,2-Dichloroethene	18.2		µg/kg		20.0		91	70-130	4	30
1,2-Dichloropropane	17.2		µg/kg		20.0		86	70-130	6	30
1,3-Dichloropropane	17.4		µg/kg		20.0		87	70-130	4	30
2,2-Dichloropropane	20.1		µg/kg		20.0		101	70-130	3	30
1,1-Dichloropropene	16.9		µg/kg		20.0		85	70-130	3	30
cis-1,3-Dichloropropene	17.7		µg/kg		20.0		89	70-130	6	30
trans-1,3-Dichloropropene	17.4		µg/kg		20.0		87	70-130	5	30
Ethylbenzene	18.9		µg/kg		20.0		95	70-130	8	30
Hexachlorobutadiene	22.9		µg/kg		20.0		114	70-130	19	30

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621537 - SW846 5035A Soil (low level)										
<u>LCS Dup (1621537-BSD1)</u>					<u>Prepared & Analyzed: 09-Dec-16</u>					
2-Hexanone (MBK)	15.9		µg/kg		20.0		80	70-130	5	30
Isopropylbenzene	21.1		µg/kg		20.0		105	70-130	7	30
4-Isopropyltoluene	27.4	QM9	µg/kg		20.0		137	70-130	17	30
Methyl tert-butyl ether	18.8		µg/kg		20.0		94	70-130	5	30
4-Methyl-2-pentanone (MIBK)	15.9		µg/kg		20.0		80	70-130	3	30
Methylene chloride	19.0		µg/kg		20.0		95	70-130	7	30
Naphthalene	28.2	QM9	µg/kg		20.0		141	70-130	21	30
n-Propylbenzene	20.7		µg/kg		20.0		104	70-130	7	30
Styrene	21.0		µg/kg		20.0		105	70-130	8	30
1,1,1,2-Tetrachloroethane	21.4		µg/kg		20.0		107	70-130	6	30
1,1,2,2-Tetrachloroethane	19.3		µg/kg		20.0		96	70-130	6	30
Tetrachloroethene	18.8		µg/kg		20.0		94	70-130	4	30
Toluene	17.7		µg/kg		20.0		88	70-130	4	30
1,2,3-Trichlorobenzene	25.9		µg/kg		20.0		129	70-130	22	30
1,2,4-Trichlorobenzene	25.3		µg/kg		20.0		127	70-130	22	30
1,3,5-Trichlorobenzene	24.8		µg/kg		20.0		124	70-130	21	30
1,1,1-Trichloroethane	17.3		µg/kg		20.0		86	70-130	4	30
1,1,2-Trichloroethane	17.9		µg/kg		20.0		89	70-130	3	30
Trichloroethene	18.6		µg/kg		20.0		93	70-130	5	30
Trichlorofluoromethane (Freon 11)	16.8		µg/kg		20.0		84	70-130	4	30
1,2,3-Trichloropropane	19.5		µg/kg		20.0		98	70-130	5	30
1,2,4-Trimethylbenzene	21.7		µg/kg		20.0		109	70-130	8	30
1,3,5-Trimethylbenzene	21.8		µg/kg		20.0		109	70-130	9	30
Vinyl chloride	16.8		µg/kg		20.0		84	70-130	2	30
m,p-Xylene	21.5		µg/kg		20.0		108	70-130	9	30
o-Xylene	21.3		µg/kg		20.0		107	70-130	7	30
Tetrahydrofuran	16.6		µg/kg		20.0		83	70-130	0.8	30
Ethyl ether	16.8		µg/kg		20.0		84	70-130	4	30
Tert-amyl methyl ether	15.5		µg/kg		20.0		78	70-130	4	30
Ethyl tert-butyl ether	18.1		µg/kg		20.0		90	70-130	4	30
Di-isopropyl ether	17.6		µg/kg		20.0		88	70-130	4	30
Tert-Butanol / butyl alcohol	174		µg/kg		200		87	70-130	7	30
1,4-Dioxane	194		µg/kg		200		97	70-130	6	30
trans-1,4-Dichloro-2-butene	18.6		µg/kg		20.0		93	70-130	9	30
Ethanol	324		µg/kg		400		81	70-130	7	30
Surrogate: 4-Bromofluorobenzene	50.2		µg/kg		50.0		100	70-130		
Surrogate: Toluene-d8	48.7		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.7		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	49.9		µg/kg		50.0		100	70-130		
Batch 1621949 - SW846 5035A Soil (high level)										
<u>Blank (1621949-BLK1)</u>					<u>Prepared & Analyzed: 15-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621949 - SW846 5035A Soil (high level)										
<u>Blank (1621949-BLK1)</u>	<u>Prepared & Analyzed: 15-Dec-16</u>									
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621949 - SW846 5035A Soil (high level)										
Blank (1621949-BLK1)					<u>Prepared & Analyzed: 15-Dec-16</u>					
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.3		µg/kg		50.0		99	70-130		
<i>Surrogate: Toluene-d8</i>	49.2		µg/kg		50.0		98	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.7		µg/kg		50.0		95	70-130		
<i>Surrogate: Dibromofluoromethane</i>	53.8		µg/kg		50.0		108	70-130		
LCS (1621949-BS1)					<u>Prepared & Analyzed: 15-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.9	D	µg/kg		20.0		105	70-130		
Acetone	15.7	D	µg/kg		20.0		79	70-130		
Acrylonitrile	16.6	D	µg/kg		20.0		83	70-130		
Benzene	20.4	D	µg/kg		20.0		102	70-130		
Bromobenzene	25.7	D	µg/kg		20.0		128	70-130		
Bromochloromethane	22.5	D	µg/kg		20.0		113	70-130		
Bromodichloromethane	21.0	D	µg/kg		20.0		105	70-130		
Bromoform	24.6	D	µg/kg		20.0		123	70-130		
Bromomethane	16.9	D	µg/kg		20.0		84	70-130		
2-Butanone (MEK)	21.4	D	µg/kg		20.0		107	70-130		
n-Butylbenzene	20.8	D	µg/kg		20.0		104	70-130		
sec-Butylbenzene	22.5	D	µg/kg		20.0		112	70-130		
tert-Butylbenzene	23.8	D	µg/kg		20.0		119	70-130		
Carbon disulfide	20.8	D	µg/kg		20.0		104	70-130		
Carbon tetrachloride	22.9	D	µg/kg		20.0		115	70-130		
Chlorobenzene	23.3	D	µg/kg		20.0		116	70-130		
Chloroethane	16.5	D	µg/kg		20.0		82	70-130		
Chloroform	20.0	D	µg/kg		20.0		100	70-130		
Chloromethane	16.2	D	µg/kg		20.0		81	70-130		
2-Chlorotoluene	22.6	D	µg/kg		20.0		113	70-130		
4-Chlorotoluene	21.1	D	µg/kg		20.0		105	70-130		
1,2-Dibromo-3-chloropropane	18.4	D	µg/kg		20.0		92	70-130		
Dibromochloromethane	22.4	D	µg/kg		20.0		112	70-130		
1,2-Dibromoethane (EDB)	22.1	D	µg/kg		20.0		111	70-130		
Dibromomethane	20.9	D	µg/kg		20.0		105	70-130		
1,2-Dichlorobenzene	20.9	D	µg/kg		20.0		105	70-130		
1,3-Dichlorobenzene	25.2	D	µg/kg		20.0		126	70-130		
1,4-Dichlorobenzene	20.3	D	µg/kg		20.0		102	70-130		
Dichlorodifluoromethane (Freon12)	17.9	D	µg/kg		20.0		90	70-130		
1,1-Dichloroethane	21.8	D	µg/kg		20.0		109	70-130		
1,2-Dichloroethane	19.4	D	µg/kg		20.0		97	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621949 - SW846 5035A Soil (high level)										
<u>LCS (1621949-BS1)</u>			QM10					<u>Prepared & Analyzed: 15-Dec-16</u>		
1,1-Dichloroethene	20.1	D	µg/kg		20.0		101	70-130		
cis-1,2-Dichloroethene	22.2	D	µg/kg		20.0		111	70-130		
trans-1,2-Dichloroethene	24.2	D	µg/kg		20.0		121	70-130		
1,2-Dichloropropane	18.8	D	µg/kg		20.0		94	70-130		
1,3-Dichloropropane	18.9	D	µg/kg		20.0		94	70-130		
2,2-Dichloropropane	27.0	QM9, D	µg/kg		20.0		135	70-130		
1,1-Dichloropropene	22.0	D	µg/kg		20.0		110	70-130		
cis-1,3-Dichloropropene	20.9	D	µg/kg		20.0		104	70-130		
trans-1,3-Dichloropropene	20.9	D	µg/kg		20.0		105	70-130		
Ethylbenzene	24.0	D	µg/kg		20.0		120	70-130		
Hexachlorobutadiene	25.4	D	µg/kg		20.0		127	70-130		
2-Hexanone (MBK)	18.1	D	µg/kg		20.0		91	70-130		
Isopropylbenzene	24.3	D	µg/kg		20.0		121	70-130		
4-Isopropyltoluene	22.0	D	µg/kg		20.0		110	70-130		
Methyl tert-butyl ether	24.6	D	µg/kg		20.0		123	70-130		
4-Methyl-2-pentanone (MIBK)	19.1	D	µg/kg		20.0		95	70-130		
Methylene chloride	17.8	D	µg/kg		20.0		89	70-130		
Naphthalene	20.5	D	µg/kg		20.0		103	70-130		
n-Propylbenzene	22.0	D	µg/kg		20.0		110	70-130		
Styrene	23.1	D	µg/kg		20.0		116	70-130		
1,1,1,2-Tetrachloroethane	24.6	D	µg/kg		20.0		123	70-130		
1,1,2,2-Tetrachloroethane	18.8	D	µg/kg		20.0		94	70-130		
Tetrachloroethene	23.9	D	µg/kg		20.0		119	70-130		
Toluene	20.0	D	µg/kg		20.0		100	70-130		
1,2,3-Trichlorobenzene	22.3	D	µg/kg		20.0		111	70-130		
1,2,4-Trichlorobenzene	24.2	D	µg/kg		20.0		121	70-130		
1,3,5-Trichlorobenzene	23.3	D	µg/kg		20.0		117	70-130		
1,1,1-Trichloroethane	22.6	D	µg/kg		20.0		113	70-130		
1,1,2-Trichloroethane	20.2	D	µg/kg		20.0		101	70-130		
Trichloroethene	21.3	D	µg/kg		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	20.9	D	µg/kg		20.0		104	70-130		
1,2,3-Trichloropropane	21.5	D	µg/kg		20.0		107	70-130		
1,2,4-Trimethylbenzene	22.1	D	µg/kg		20.0		111	70-130		
1,3,5-Trimethylbenzene	22.5	D	µg/kg		20.0		113	70-130		
Vinyl chloride	14.8	D	µg/kg		20.0		74	70-130		
m,p-Xylene	24.6	D	µg/kg		20.0		123	70-130		
o-Xylene	23.6	D	µg/kg		20.0		118	70-130		
Tetrahydrofuran	18.1	D	µg/kg		20.0		90	70-130		
Ethyl ether	18.8	D	µg/kg		20.0		94	70-130		
Tert-amyl methyl ether	17.5	D	µg/kg		20.0		88	70-130		
Ethyl tert-butyl ether	20.8	D	µg/kg		20.0		104	70-130		
Di-isopropyl ether	20.7	D	µg/kg		20.0		103	70-130		
Tert-Butanol / butyl alcohol	178	D	µg/kg		200		89	70-130		
1,4-Dioxane	181	D	µg/kg		200		91	70-130		
trans-1,4-Dichloro-2-butene	21.9	D	µg/kg		20.0		109	70-130		
Ethanol	374	D	µg/kg		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	52.5		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	48.3		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	45.5		µg/kg		50.0		91	70-130		
Surrogate: Dibromofluoromethane	54.6		µg/kg		50.0		109	70-130		
<u>LCS Dup (1621949-BSD1)</u>			QM10					<u>Prepared & Analyzed: 15-Dec-16</u>		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621949 - SW846 5035A Soil (high level)										
<u>LCS Dup (1621949-BSD1)</u>										
			QM10							
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.4	D	µg/kg		20.0		97	70-130	8	30
Acetone	13.6	D	µg/kg		20.0		68	70-130	15	30
Acrylonitrile	16.0	D	µg/kg		20.0		80	70-130	4	30
Benzene	19.9	D	µg/kg		20.0		100	70-130	3	30
Bromobenzene	23.2	D	µg/kg		20.0		116	70-130	10	30
Bromochloromethane	22.1	D	µg/kg		20.0		110	70-130	2	30
Bromodichloromethane	20.4	D	µg/kg		20.0		102	70-130	3	30
Bromoform	24.6	D	µg/kg		20.0		123	70-130	0.2	30
Bromomethane	16.4	D	µg/kg		20.0		82	70-130	3	30
2-Butanone (MEK)	21.5	D	µg/kg		20.0		108	70-130	0.5	30
n-Butylbenzene	19.6	D	µg/kg		20.0		98	70-130	6	30
sec-Butylbenzene	20.3	D	µg/kg		20.0		102	70-130	10	30
tert-Butylbenzene	21.3	D	µg/kg		20.0		107	70-130	11	30
Carbon disulfide	19.9	D	µg/kg		20.0		100	70-130	4	30
Carbon tetrachloride	21.4	D	µg/kg		20.0		107	70-130	7	30
Chlorobenzene	21.9	D	µg/kg		20.0		110	70-130	6	30
Chloroethane	15.8	D	µg/kg		20.0		79	70-130	4	30
Chloroform	19.1	D	µg/kg		20.0		95	70-130	5	30
Chloromethane	15.7	D	µg/kg		20.0		78	70-130	3	30
2-Chlorotoluene	21.2	D	µg/kg		20.0		106	70-130	6	30
4-Chlorotoluene	19.8	D	µg/kg		20.0		99	70-130	6	30
1,2-Dibromo-3-chloropropane	18.8	D	µg/kg		20.0		94	70-130	2	30
Dibromochloromethane	22.7	D	µg/kg		20.0		113	70-130	1	30
1,2-Dibromoethane (EDB)	21.9	D	µg/kg		20.0		110	70-130	0.9	30
Dibromomethane	20.6	D	µg/kg		20.0		103	70-130	1	30
1,2-Dichlorobenzene	20.4	D	µg/kg		20.0		102	70-130	3	30
1,3-Dichlorobenzene	22.7	D	µg/kg		20.0		113	70-130	11	30
1,4-Dichlorobenzene	19.5	D	µg/kg		20.0		98	70-130	4	30
Dichlorodifluoromethane (Freon12)	16.7	D	µg/kg		20.0		83	70-130	7	30
1,1-Dichloroethane	20.4	D	µg/kg		20.0		102	70-130	7	30
1,2-Dichloroethane	19.7	D	µg/kg		20.0		98	70-130	2	30
1,1-Dichloroethene	18.2	D	µg/kg		20.0		91	70-130	10	30
cis-1,2-Dichloroethene	21.1	D	µg/kg		20.0		106	70-130	5	30
trans-1,2-Dichloroethene	30.9	QM9, D	µg/kg		20.0		155	70-130	25	30
1,2-Dichloropropane	18.5	D	µg/kg		20.0		93	70-130	1	30
1,3-Dichloropropane	18.9	D	µg/kg		20.0		95	70-130	0.3	30
2,2-Dichloropropane	25.0	D	µg/kg		20.0		125	70-130	8	30
1,1-Dichloropropene	20.3	D	µg/kg		20.0		102	70-130	8	30
cis-1,3-Dichloropropene	20.9	D	µg/kg		20.0		105	70-130	0.3	30
trans-1,3-Dichloropropene	21.7	D	µg/kg		20.0		108	70-130	4	30
Ethylbenzene	22.1	D	µg/kg		20.0		111	70-130	8	30
Hexachlorobutadiene	23.2	D	µg/kg		20.0		116	70-130	9	30
2-Hexanone (MBK)	19.2	D	µg/kg		20.0		96	70-130	6	30
Isopropylbenzene	22.4	D	µg/kg		20.0		112	70-130	8	30
4-Isopropyltoluene	20.7	D	µg/kg		20.0		104	70-130	6	30
Methyl tert-butyl ether	24.2	D	µg/kg		20.0		121	70-130	2	30
4-Methyl-2-pentanone (MIBK)	20.4	D	µg/kg		20.0		102	70-130	6	30
Methylene chloride	17.5	D	µg/kg		20.0		87	70-130	2	30
Naphthalene	20.2	D	µg/kg		20.0		101	70-130	2	30
n-Propylbenzene	20.3	D	µg/kg		20.0		102	70-130	8	30
Styrene	21.5	D	µg/kg		20.0		107	70-130	7	30
1,1,1,2-Tetrachloroethane	23.3	D	µg/kg		20.0		117	70-130	5	30

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621949 - SW846 5035A Soil (high level)										
<u>LCS Dup (1621949-BSD1)</u>			QM10					<u>Prepared & Analyzed: 15-Dec-16</u>		
1,1,2,2-Tetrachloroethane	20.4	D	µg/kg		20.0		102	70-130	9	30
Tetrachloroethene	21.5	D	µg/kg		20.0		107	70-130	11	30
Toluene	18.8	D	µg/kg		20.0		94	70-130	6	30
1,2,3-Trichlorobenzene	21.0	D	µg/kg		20.0		105	70-130	6	30
1,2,4-Trichlorobenzene	23.0	D	µg/kg		20.0		115	70-130	5	30
1,3,5-Trichlorobenzene	21.9	D	µg/kg		20.0		110	70-130	6	30
1,1,1-Trichloroethane	21.6	D	µg/kg		20.0		108	70-130	5	30
1,1,2-Trichloroethane	20.4	D	µg/kg		20.0		102	70-130	1	30
Trichloroethene	19.6	D	µg/kg		20.0		98	70-130	8	30
Trichlorofluoromethane (Freon 11)	19.4	D	µg/kg		20.0		97	70-130	8	30
1,2,3-Trichloropropane	21.7	D	µg/kg		20.0		109	70-130	1	30
1,2,4-Trimethylbenzene	20.3	D	µg/kg		20.0		102	70-130	8	30
1,3,5-Trimethylbenzene	20.6	D	µg/kg		20.0		103	70-130	9	30
Vinyl chloride	14.6	D	µg/kg		20.0		73	70-130	1	30
m,p-Xylene	22.5	D	µg/kg		20.0		113	70-130	9	30
o-Xylene	21.8	D	µg/kg		20.0		109	70-130	8	30
Tetrahydrofuran	18.4	D	µg/kg		20.0		92	70-130	2	30
Ethyl ether	18.4	D	µg/kg		20.0		92	70-130	2	30
Tert-amyl methyl ether	17.8	D	µg/kg		20.0		89	70-130	2	30
Ethyl tert-butyl ether	20.5	D	µg/kg		20.0		103	70-130	1	30
Di-isopropyl ether	20.7	D	µg/kg		20.0		103	70-130	0	30
Tert-Butanol / butyl alcohol	157	D	µg/kg		200		78	70-130	13	30
1,4-Dioxane	151	D	µg/kg		200		75	70-130	18	30
trans-1,4-Dichloro-2-butene	23.0	D	µg/kg		20.0		115	70-130	5	30
Ethanol	331	D	µg/kg		400		83	70-130	12	30
Surrogate: 4-Bromofluorobenzene	51.9		µg/kg		50.0		104	70-130		
Surrogate: Toluene-d8	48.3		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.3		µg/kg		50.0		93	70-130		
Surrogate: Dibromofluoromethane	55.5		µg/kg		50.0		111	70-130		
Batch 1622138 - SW846 5035A Soil (high level)										
<u>Blank (1622138-BLK1)</u>								<u>Prepared & Analyzed: 19-Dec-16</u>		
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1622138 - SW846 5035A Soil (high level)										
Blank (1622138-BLK1)					Prepared & Analyzed: 19-Dec-16					
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1622138 - SW846 5035A Soil (high level)										
Blank (1622138-BLK1)					<u>Prepared & Analyzed: 19-Dec-16</u>					
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	47.4		µg/kg		50.0		95	70-130		
Surrogate: Toluene-d8	51.0		µg/kg		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.9		µg/kg		50.0		98	70-130		
Surrogate: Dibromofluoromethane	51.2		µg/kg		50.0		102	70-130		
LCS (1622138-BS1)					<u>Prepared & Analyzed: 19-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.9	D	µg/kg		20.0		110	70-130		
Acetone	17.6	D	µg/kg		20.0		88	70-130		
Acrylonitrile	18.6	D	µg/kg		20.0		93	70-130		
Benzene	20.9	D	µg/kg		20.0		104	70-130		
Bromobenzene	23.6	D	µg/kg		20.0		118	70-130		
Bromochloromethane	20.5	D	µg/kg		20.0		103	70-130		
Bromodichloromethane	21.4	D	µg/kg		20.0		107	70-130		
Bromoform	24.2	D	µg/kg		20.0		121	70-130		
Bromomethane	20.0	D	µg/kg		20.0		100	70-130		
2-Butanone (MEK)	18.3	D	µg/kg		20.0		92	70-130		
n-Butylbenzene	21.1	D	µg/kg		20.0		105	70-130		
sec-Butylbenzene	22.2	D	µg/kg		20.0		111	70-130		
tert-Butylbenzene	22.7	D	µg/kg		20.0		114	70-130		
Carbon disulfide	23.3	D	µg/kg		20.0		116	70-130		
Carbon tetrachloride	22.7	D	µg/kg		20.0		114	70-130		
Chlorobenzene	22.4	D	µg/kg		20.0		112	70-130		
Chloroethane	19.9	D	µg/kg		20.0		100	70-130		
Chloroform	18.6	D	µg/kg		20.0		93	70-130		
Chloromethane	18.8	D	µg/kg		20.0		94	70-130		
2-Chlorotoluene	22.5	D	µg/kg		20.0		113	70-130		
4-Chlorotoluene	21.2	D	µg/kg		20.0		106	70-130		
1,2-Dibromo-3-chloropropane	19.5	D	µg/kg		20.0		98	70-130		
Dibromochloromethane	23.1	D	µg/kg		20.0		116	70-130		
1,2-Dibromoethane (EDB)	22.4	D	µg/kg		20.0		112	70-130		
Dibromomethane	21.1	D	µg/kg		20.0		105	70-130		
1,2-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130		
1,3-Dichlorobenzene	24.0	D	µg/kg		20.0		120	70-130		
1,4-Dichlorobenzene	20.2	D	µg/kg		20.0		101	70-130		
Dichlorodifluoromethane (Freon12)	19.5	D	µg/kg		20.0		97	70-130		
1,1-Dichloroethane	19.6	D	µg/kg		20.0		98	70-130		
1,2-Dichloroethane	20.6	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	21.6	D	µg/kg		20.0		108	70-130		
cis-1,2-Dichloroethene	21.0	D	µg/kg		20.0		105	70-130		
trans-1,2-Dichloroethene	35.9	QC2, D	µg/kg		20.0		179	70-130		
1,2-Dichloropropane	20.3	D	µg/kg		20.0		101	70-130		
1,3-Dichloropropane	19.9	D	µg/kg		20.0		100	70-130		
2,2-Dichloropropane	23.7	D	µg/kg		20.0		119	70-130		
1,1-Dichloropropene	22.1	D	µg/kg		20.0		110	70-130		
cis-1,3-Dichloropropene	21.2	D	µg/kg		20.0		106	70-130		
trans-1,3-Dichloropropene	22.0	D	µg/kg		20.0		110	70-130		
Ethylbenzene	23.3	D	µg/kg		20.0		117	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1622138 - SW846 5035A Soil (high level)										
<u>LCS (1622138-BS1)</u>					<u>Prepared & Analyzed: 19-Dec-16</u>					
Hexachlorobutadiene	23.5	D	µg/kg		20.0		118	70-130		
2-Hexanone (MBK)	19.9	D	µg/kg		20.0		99	70-130		
Isopropylbenzene	24.1	D	µg/kg		20.0		121	70-130		
4-Isopropyltoluene	22.4	D	µg/kg		20.0		112	70-130		
Methyl tert-butyl ether	32.3	QM9, D	µg/kg		20.0		162	70-130		
4-Methyl-2-pentanone (MIBK)	21.6	D	µg/kg		20.0		108	70-130		
Methylene chloride	19.7	D	µg/kg		20.0		98	70-130		
Naphthalene	20.1	D	µg/kg		20.0		100	70-130		
n-Propylbenzene	21.8	D	µg/kg		20.0		109	70-130		
Styrene	22.0	D	µg/kg		20.0		110	70-130		
1,1,1,2-Tetrachloroethane	23.4	D	µg/kg		20.0		117	70-130		
1,1,2,2-Tetrachloroethane	21.0	D	µg/kg		20.0		105	70-130		
Tetrachloroethene	22.4	D	µg/kg		20.0		112	70-130		
Toluene	20.7	D	µg/kg		20.0		103	70-130		
1,2,3-Trichlorobenzene	20.8	D	µg/kg		20.0		104	70-130		
1,2,4-Trichlorobenzene	22.3	D	µg/kg		20.0		112	70-130		
1,3,5-Trichlorobenzene	21.2	D	µg/kg		20.0		106	70-130		
1,1,1-Trichloroethane	21.9	D	µg/kg		20.0		109	70-130		
1,1,2-Trichloroethane	20.8	D	µg/kg		20.0		104	70-130		
Trichloroethene	20.5	D	µg/kg		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	22.7	D	µg/kg		20.0		113	70-130		
1,2,3-Trichloropropane	20.9	D	µg/kg		20.0		105	70-130		
1,2,4-Trimethylbenzene	21.6	D	µg/kg		20.0		108	70-130		
1,3,5-Trimethylbenzene	22.1	D	µg/kg		20.0		110	70-130		
Vinyl chloride	18.9	D	µg/kg		20.0		94	70-130		
m,p-Xylene	24.1	D	µg/kg		20.0		121	70-130		
o-Xylene	23.0	D	µg/kg		20.0		115	70-130		
Tetrahydrofuran	18.8	D	µg/kg		20.0		94	70-130		
Ethyl ether	21.2	D	µg/kg		20.0		106	70-130		
Tert-amyl methyl ether	19.6	D	µg/kg		20.0		98	70-130		
Ethyl tert-butyl ether	21.5	D	µg/kg		20.0		108	70-130		
Di-isopropyl ether	21.9	D	µg/kg		20.0		110	70-130		
Tert-Butanol / butyl alcohol	175	D	µg/kg		200		87	70-130		
1,4-Dioxane	150	D	µg/kg		200		75	70-130		
trans-1,4-Dichloro-2-butene	23.9	D	µg/kg		20.0		119	70-130		
Ethanol	351	D	µg/kg		400		88	70-130		
Surrogate: 4-Bromofluorobenzene	52.6		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	49.0		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.2		µg/kg		50.0		94	70-130		
Surrogate: Dibromofluoromethane	53.6		µg/kg		50.0		107	70-130		
<u>LCS Dup (1622138-BS1)</u>					<u>Prepared & Analyzed: 19-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.7	D	µg/kg		20.0		108	70-130	1	30
Acetone	18.4	D	µg/kg		20.0		92	70-130	4	30
Acrylonitrile	19.7	D	µg/kg		20.0		99	70-130	6	30
Benzene	21.2	D	µg/kg		20.0		106	70-130	1	30
Bromobenzene	23.2	D	µg/kg		20.0		116	70-130	2	30
Bromochloromethane	20.9	D	µg/kg		20.0		105	70-130	2	30
Bromodichloromethane	21.4	D	µg/kg		20.0		107	70-130	0.5	30
Bromoform	23.4	D	µg/kg		20.0		117	70-130	3	30
Bromomethane	20.4	D	µg/kg		20.0		102	70-130	2	30
2-Butanone (MEK)	21.8	D	µg/kg		20.0		109	70-130	17	30

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1622138 - SW846 5035A Soil (high level)										
<u>LCS Dup (1622138-BSD1)</u>					<u>Prepared & Analyzed: 19-Dec-16</u>					
n-Butylbenzene	21.6	D	µg/kg		20.0		108	70-130	2	30
sec-Butylbenzene	22.0	D	µg/kg		20.0		110	70-130	0.5	30
tert-Butylbenzene	22.5	D	µg/kg		20.0		113	70-130	0.9	30
Carbon disulfide	22.8	D	µg/kg		20.0		114	70-130	2	30
Carbon tetrachloride	22.3	D	µg/kg		20.0		111	70-130	2	30
Chlorobenzene	22.3	D	µg/kg		20.0		112	70-130	0.5	30
Chloroethane	20.4	D	µg/kg		20.0		102	70-130	2	30
Chloroform	19.1	D	µg/kg		20.0		96	70-130	3	30
Chloromethane	19.0	D	µg/kg		20.0		95	70-130	1	30
2-Chlorotoluene	22.7	D	µg/kg		20.0		113	70-130	0.6	30
4-Chlorotoluene	21.0	D	µg/kg		20.0		105	70-130	1	30
1,2-Dibromo-3-chloropropane	20.0	D	µg/kg		20.0		100	70-130	2	30
Dibromochloromethane	22.5	D	µg/kg		20.0		112	70-130	3	30
1,2-Dibromoethane (EDB)	23.0	D	µg/kg		20.0		115	70-130	3	30
Dibromomethane	21.4	D	µg/kg		20.0		107	70-130	1	30
1,2-Dichlorobenzene	21.5	D	µg/kg		20.0		107	70-130	2	30
1,3-Dichlorobenzene	23.5	D	µg/kg		20.0		118	70-130	2	30
1,4-Dichlorobenzene	20.4	D	µg/kg		20.0		102	70-130	1	30
Dichlorodifluoromethane (Freon12)	19.8	D	µg/kg		20.0		99	70-130	2	30
1,1-Dichloroethane	20.3	D	µg/kg		20.0		102	70-130	4	30
1,2-Dichloroethane	21.5	D	µg/kg		20.0		108	70-130	4	30
1,1-Dichloroethene	21.8	D	µg/kg		20.0		109	70-130	1	30
cis-1,2-Dichloroethene	21.7	D	µg/kg		20.0		109	70-130	3	30
trans-1,2-Dichloroethene	34.7	QC2, D	µg/kg		20.0		174	70-130	3	30
1,2-Dichloropropane	20.6	D	µg/kg		20.0		103	70-130	2	30
1,3-Dichloropropane	20.2	D	µg/kg		20.0		101	70-130	1	30
2,2-Dichloropropane	22.8	D	µg/kg		20.0		114	70-130	4	30
1,1-Dichloropropene	22.2	D	µg/kg		20.0		111	70-130	0.4	30
cis-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130	2	30
trans-1,3-Dichloropropene	22.0	D	µg/kg		20.0		110	70-130	0.2	30
Ethylbenzene	23.2	D	µg/kg		20.0		116	70-130	0.4	30
Hexachlorobutadiene	23.9	D	µg/kg		20.0		119	70-130	1	30
2-Hexanone (MBK)	22.3	D	µg/kg		20.0		111	70-130	11	30
Isopropylbenzene	23.7	D	µg/kg		20.0		119	70-130	2	30
4-Isopropyltoluene	22.8	D	µg/kg		20.0		114	70-130	2	30
Methyl tert-butyl ether	22.0	QR5, D	µg/kg		20.0		110	70-130	38	30
4-Methyl-2-pentanone (MIBK)	22.8	D	µg/kg		20.0		114	70-130	5	30
Methylene chloride	20.5	D	µg/kg		20.0		103	70-130	4	30
Naphthalene	20.9	D	µg/kg		20.0		105	70-130	4	30
n-Propylbenzene	21.6	D	µg/kg		20.0		108	70-130	0.9	30
Styrene	22.0	D	µg/kg		20.0		110	70-130	0.2	30
1,1,1,2-Tetrachloroethane	23.0	D	µg/kg		20.0		115	70-130	2	30
1,1,2,2-Tetrachloroethane	20.2	D	µg/kg		20.0		101	70-130	4	30
Tetrachloroethene	21.7	D	µg/kg		20.0		109	70-130	3	30
Toluene	20.7	D	µg/kg		20.0		104	70-130	0.2	30
1,2,3-Trichlorobenzene	21.2	D	µg/kg		20.0		106	70-130	2	30
1,2,4-Trichlorobenzene	22.3	D	µg/kg		20.0		112	70-130	0.1	30
1,3,5-Trichlorobenzene	21.9	D	µg/kg		20.0		110	70-130	3	30
1,1,1-Trichloroethane	22.0	D	µg/kg		20.0		110	70-130	0.4	30
1,1,2-Trichloroethane	21.2	D	µg/kg		20.0		106	70-130	2	30
Trichloroethene	21.3	D	µg/kg		20.0		107	70-130	4	30
Trichlorofluoromethane (Freon 11)	22.4	D	µg/kg		20.0		112	70-130	1	30

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1622138 - SW846 5035A Soil (high level)										
<u>LCS Dup (1622138-BSD1)</u>					<u>Prepared & Analyzed: 19-Dec-16</u>					
1,2,3-Trichloropropane	22.6	D	µg/kg		20.0		113	70-130	8	30
1,2,4-Trimethylbenzene	21.8	D	µg/kg		20.0		109	70-130	0.7	30
1,3,5-Trimethylbenzene	21.8	D	µg/kg		20.0		109	70-130	1	30
Vinyl chloride	19.0	D	µg/kg		20.0		95	70-130	0.9	30
m,p-Xylene	23.2	D	µg/kg		20.0		116	70-130	4	30
o-Xylene	23.1	D	µg/kg		20.0		115	70-130	0.5	30
Tetrahydrofuran	21.2	D	µg/kg		20.0		106	70-130	12	30
Ethyl ether	20.9	D	µg/kg		20.0		105	70-130	1	30
Tert-amyl methyl ether	21.2	D	µg/kg		20.0		106	70-130	8	30
Ethyl tert-butyl ether	22.1	D	µg/kg		20.0		110	70-130	3	30
Di-isopropyl ether	22.6	D	µg/kg		20.0		113	70-130	3	30
Tert-Butanol / butyl alcohol	184	D	µg/kg		200		92	70-130	5	30
1,4-Dioxane	179	D	µg/kg		200		89	70-130	18	30
trans-1,4-Dichloro-2-butene	21.7	D	µg/kg		20.0		109	70-130	9	30
Ethanol	410	D	µg/kg		400		102	70-130	15	30
Surrogate: 4-Bromofluorobenzene	51.6		µg/kg		50.0		103	70-130		
Surrogate: Toluene-d8	48.9		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.8		µg/kg		50.0		94	70-130		
Surrogate: Dibromofluoromethane	52.2		µg/kg		50.0		104	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
Blank (1621474-BLK1)	<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>									
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
Aniline	< 330	U	µg/kg wet	330						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
1,3-Dichlorobenzene	< 330	U	µg/kg wet	330						
1,4-Dichlorobenzene	< 330	U	µg/kg wet	330						
1,2-Dichlorobenzene	< 330	U	µg/kg wet	330						
Benzyl alcohol	< 330	U	µg/kg wet	330						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
Isophorone	< 167	U	µg/kg wet	167						
Bis(2-chloroethoxy)methane	< 330	U	µg/kg wet	330						
Carbazole	< 167	U	µg/kg wet	167						
Benzoic acid	< 330	U	µg/kg wet	330						
Naphthalene	< 66.7	U	µg/kg wet	66.7						
4-Chloroaniline	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
2-Methylnaphthalene	< 66.7	U	µg/kg wet	66.7						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 330	U	µg/kg wet	330						
2-Nitroaniline	< 330	U	µg/kg wet	330						
Acenaphthylene	< 66.7	U	µg/kg wet	66.7						
Dimethyl phthalate	< 330	U	µg/kg wet	330						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Acenaphthene	< 66.7	U	µg/kg wet	66.7						
3-Nitroaniline	< 330	U	µg/kg wet	330						
Dibenzofuran	< 167	U	µg/kg wet	167						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
Fluorene	< 66.7	U	µg/kg wet	66.7						
4-Chlorophenyl phenyl ether	< 330	U	µg/kg wet	330						
Diethyl phthalate	< 330	U	µg/kg wet	330						
4-Nitroaniline	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 330	U	µg/kg wet	330						
Azobenzene/Diphenyldiazene	< 330	U	µg/kg wet	330						
4-Bromophenyl phenyl ether	< 330	U	µg/kg wet	330						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
1-Methylnaphthalene	< 66.7	U	µg/kg wet	66.7						
Phenanthrene	< 66.7	U	µg/kg wet	66.7						
Anthracene	< 66.7	U	µg/kg wet	66.7						
Di-n-butyl phthalate	< 330	U	µg/kg wet	330						
Fluoranthene	< 66.7	U	µg/kg wet	66.7						
Benzidine	< 330	U	µg/kg wet	330						
Pyrene	< 66.7	U	µg/kg wet	66.7						
Butyl benzyl phthalate	< 330	U	µg/kg wet	330						
3,3'-Dichlorobenzidine	< 330	U	µg/kg wet	330						
Benzo (a) anthracene	< 66.7	U	µg/kg wet	66.7						
Chrysene	< 66.7	U	µg/kg wet	66.7						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 330	U	µg/kg wet	330						
Benzo (b) fluoranthene	< 66.7	U	µg/kg wet	66.7						
Benzo (k) fluoranthene	< 66.7	U	µg/kg wet	66.7						

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
Blank (1621474-BLK1)					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Benzo (a) pyrene	< 66.7	U	µg/kg wet	66.7						
Indeno (1,2,3-cd) pyrene	< 66.7	U	µg/kg wet	66.7						
Dibenzo (a,h) anthracene	< 66.7	U	µg/kg wet	66.7						
Pyridine	< 330	U	µg/kg wet	330						
Benzo (g,h,i) perylene	< 66.7	U	µg/kg wet	66.7						
1,2,4-Trichlorobenzene	< 330	U	µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	< 330	U	µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	1060		µg/kg wet		1670		64	30-130		
Surrogate: 2-Fluorophenol	1130		µg/kg wet		1670		68	30-130		
Surrogate: Nitrobenzene-d5	1270		µg/kg wet		1670		76	30-130		
Surrogate: Phenol-d5	1220		µg/kg wet		1670		73	30-130		
Surrogate: Terphenyl-dl4	1330		µg/kg wet		1670		80	30-130		
Surrogate: 2,4,6-Tribromophenol	747		µg/kg wet		1670		45	30-130		
LCS (1621474-BS1)					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
N-Nitrosodimethylamine	1010		µg/kg wet	167	1660		61	40-140		
Aniline	824		µg/kg wet	329	1660		50	40-140		
Bis(2-chloroethyl)ether	1010		µg/kg wet	167	1660		61	40-140		
1,3-Dichlorobenzene	846		µg/kg wet	329	1660		51	40-140		
1,4-Dichlorobenzene	886		µg/kg wet	329	1660		53	40-140		
1,2-Dichlorobenzene	923		µg/kg wet	329	1660		55	40-140		
Benzyl alcohol	974		µg/kg wet	329	1660		59	40-140		
Bis(2-chloroisopropyl)ether	1450		µg/kg wet	167	1660		87	40-140		
Hexachloroethane	1020		µg/kg wet	167	1660		61	40-140		
Nitrobenzene	1220		µg/kg wet	167	1660		73	40-140		
Isophorone	1010		µg/kg wet	167	1660		61	40-140		
Bis(2-chloroethoxy)methane	1060		µg/kg wet	329	1660		64	40-140		
Carbazole	1360		µg/kg wet	167	1660		82	40-140		
Naphthalene	978		µg/kg wet	66.6	1660		59	40-140		
4-Chloroaniline	711		µg/kg wet	167	1660		43	40-140		
Hexachlorobutadiene	758		µg/kg wet	167	1660		46	40-140		
2-Methylnaphthalene	1170		µg/kg wet	66.6	1660		70	40-140		
Hexachlorocyclopentadiene	486	QC2	µg/kg wet	167	1660		29	40-140		
2-Chloronaphthalene	998		µg/kg wet	329	1660		60	40-140		
2-Nitroaniline	1180		µg/kg wet	329	1660		71	40-140		
Acenaphthylene	1020		µg/kg wet	66.6	1660		61	40-140		
Dimethyl phthalate	978		µg/kg wet	329	1660		59	40-140		
2,6-Dinitrotoluene	1160		µg/kg wet	167	1660		70	40-140		
Acenaphthene	1030		µg/kg wet	66.6	1660		62	40-140		
3-Nitroaniline	1090		µg/kg wet	329	1660		65	40-140		
Dibenzofuran	1010		µg/kg wet	167	1660		61	40-140		
2,4-Dinitrotoluene	1250		µg/kg wet	167	1660		75	40-140		
Fluorene	981		µg/kg wet	66.6	1660		59	40-140		
4-Chlorophenyl phenyl ether	908		µg/kg wet	329	1660		55	40-140		
Diethyl phthalate	1050		µg/kg wet	329	1660		63	40-140		
4-Nitroaniline	1470		µg/kg wet	167	1660		89	40-140		
N-Nitrosodiphenylamine	1250		µg/kg wet	329	1660		75	40-140		
Azobenzene/Diphenyldiazene	1520		µg/kg wet	329	1660		91	40-140		
4-Bromophenyl phenyl ether	984		µg/kg wet	329	1660		59	40-140		
Hexachlorobenzene	1020		µg/kg wet	167	1660		61	40-140		
1-Methylnaphthalene	1090		µg/kg wet	66.6	1660		65	40-140		
Phenanthrene	1030		µg/kg wet	66.6	1660		62	40-140		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
<u>LCS (1621474-BS1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Anthracene	1130		µg/kg wet	66.6	1660		68	40-140		
Di-n-butyl phthalate	1300		µg/kg wet	329	1660		78	40-140		
Fluoranthene	1150		µg/kg wet	66.6	1660		69	40-140		
Benzidine	2990	QC2	µg/kg wet	329	1660		180	40-140		
Pyrene	1220		µg/kg wet	66.6	1660		73	40-140		
Butyl benzyl phthalate	1370		µg/kg wet	329	1660		82	40-140		
3,3'-Dichlorobenzidine	1280		µg/kg wet	329	1660		77	40-140		
Benzo (a) anthracene	1140		µg/kg wet	66.6	1660		68	40-140		
Chrysene	1210		µg/kg wet	66.6	1660		73	40-140		
Bis(2-ethylhexyl)phthalate	1490		µg/kg wet	167	1660		89	40-140		
N-Nitrosodi-n-propylamine	1300		µg/kg wet	167	1660		78	40-140		
Di-n-octyl phthalate	1460		µg/kg wet	329	1660		87	40-140		
Benzo (b) fluoranthene	1150		µg/kg wet	66.6	1660		69	40-140		
Benzo (k) fluoranthene	1310		µg/kg wet	66.6	1660		78	40-140		
Benzo (a) pyrene	1270		µg/kg wet	66.6	1660		77	40-140		
Indeno (1,2,3-cd) pyrene	1170		µg/kg wet	66.6	1660		70	40-140		
Dibenzo (a,h) anthracene	1230		µg/kg wet	66.6	1660		74	40-140		
Pyridine	692		µg/kg wet	329	1660		42	40-140		
Benzo (g,h,i) perylene	1150		µg/kg wet	66.6	1660		69	40-140		
1,2,4-Trichlorobenzene	882		µg/kg wet	329	1660		53	40-140		
1,2,4,5-Tetrachlorobenzene	940		µg/kg wet	329	1660		57	40-140		
Surrogate: 2-Fluorophenol	995		µg/kg wet		1660		60	30-130		
Surrogate: 2-Fluorobiphenyl	952		µg/kg wet		1660		57	30-130		
Surrogate: Nitrobenzene-d5	1110		µg/kg wet		1660		67	30-130		
Surrogate: Phenol-d5	1050		µg/kg wet		1660		63	30-130		
Surrogate: Terphenyl-d14	1160		µg/kg wet		1660		70	30-130		
Surrogate: 2,4,6-Tribromophenol	896		µg/kg wet		1660		54	30-130		
<u>LCS Dup (1621474-BSD1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
N-Nitrosodimethylamine	1020		µg/kg wet	167	1670		61	40-140	0.8	30
Aniline	792		µg/kg wet	330	1670		48	40-140	4	30
Bis(2-chloroethyl)ether	982		µg/kg wet	167	1670		59	40-140	3	30
1,3-Dichlorobenzene	901		µg/kg wet	330	1670		54	40-140	6	30
1,4-Dichlorobenzene	922		µg/kg wet	330	1670		55	40-140	4	30
1,2-Dichlorobenzene	954		µg/kg wet	330	1670		57	40-140	3	30
Benzyl alcohol	1050		µg/kg wet	330	1670		63	40-140	8	30
Bis(2-chloroisopropyl)ether	1450		µg/kg wet	167	1670		87	40-140	0.3	30
Hexachloroethane	1030		µg/kg wet	167	1670		62	40-140	0.9	30
Nitrobenzene	1260		µg/kg wet	167	1670		76	40-140	4	30
Isophorone	988		µg/kg wet	167	1670		59	40-140	3	30
Bis(2-chloroethoxy)methane	1010		µg/kg wet	330	1670		61	40-140	5	30
Carbazole	1250		µg/kg wet	167	1670		75	40-140	8	30
Naphthalene	1000		µg/kg wet	66.6	1670		60	40-140	2	30
4-Chloroaniline	669		µg/kg wet	167	1670		40	40-140	6	30
Hexachlorobutadiene	760		µg/kg wet	167	1670		46	40-140	0.2	30
2-Methylnaphthalene	1160		µg/kg wet	66.6	1670		70	40-140	0.8	30
Hexachlorocyclopentadiene	519	QC2	µg/kg wet	167	1670		31	40-140	7	30
2-Chloronaphthalene	972		µg/kg wet	330	1670		58	40-140	3	30
2-Nitroaniline	1160		µg/kg wet	330	1670		69	40-140	2	30
Acenaphthylene	1030		µg/kg wet	66.6	1670		62	40-140	1	30
Dimethyl phthalate	1010		µg/kg wet	330	1670		61	40-140	3	30
2,6-Dinitrotoluene	1170		µg/kg wet	167	1670		70	40-140	0.6	30

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621474 - SW846 3546										
<u>LCS Dup (1621474-BSD1)</u>					<u>Prepared: 08-Dec-16 Analyzed: 09-Dec-16</u>					
Acenaphthene	986		µg/kg wet	66.6	1670		59	40-140	5	30
3-Nitroaniline	1010		µg/kg wet	330	1670		61	40-140	8	30
Dibenzofuran	977		µg/kg wet	167	1670		59	40-140	4	30
2,4-Dinitrotoluene	1180		µg/kg wet	167	1670		71	40-140	6	30
Fluorene	975		µg/kg wet	66.6	1670		59	40-140	0.6	30
4-Chlorophenyl phenyl ether	959		µg/kg wet	330	1670		58	40-140	5	30
Diethyl phthalate	1040		µg/kg wet	330	1670		63	40-140	0.8	30
4-Nitroaniline	1470		µg/kg wet	167	1670		88	40-140	0.4	30
N-Nitrosodiphenylamine	1170		µg/kg wet	330	1670		71	40-140	6	30
Azobenzene/Diphenyldiazene	1450		µg/kg wet	330	1670		87	40-140	5	30
4-Bromophenyl phenyl ether	911		µg/kg wet	330	1670		55	40-140	8	30
1-Methylnaphthalene	1090		µg/kg wet	66.6	1670		66	40-140	0.5	30
Hexachlorobenzene	951		µg/kg wet	167	1670		57	40-140	7	30
Phenanthrene	1040		µg/kg wet	66.6	1670		62	40-140	0.6	30
Anthracene	1130		µg/kg wet	66.6	1670		68	40-140	0.2	30
Di-n-butyl phthalate	1230		µg/kg wet	330	1670		74	40-140	6	30
Fluoranthene	1050		µg/kg wet	66.6	1670		63	40-140	9	30
Benzidine	2920	QC2	µg/kg wet	330	1670		175	40-140	2	30
Pyrene	1280		µg/kg wet	66.6	1670		77	40-140	5	30
Butyl benzyl phthalate	1480		µg/kg wet	330	1670		89	40-140	8	30
3,3'-Dichlorobenzidine	1350		µg/kg wet	330	1670		81	40-140	6	30
Benzo (a) anthracene	1080		µg/kg wet	66.6	1670		65	40-140	5	30
Chrysene	1320		µg/kg wet	66.6	1670		79	40-140	8	30
N-Nitrosodi-n-propylamine	1280		µg/kg wet	167	1670		77	40-140	2	30
Bis(2-ethylhexyl)phthalate	1510		µg/kg wet	167	1670		91	40-140	2	30
Di-n-octyl phthalate	1470		µg/kg wet	330	1670		88	40-140	0.7	30
Benzo (b) fluoranthene	1110		µg/kg wet	66.6	1670		67	40-140	3	30
Benzo (k) fluoranthene	1310		µg/kg wet	66.6	1670		78	40-140	0.08	30
Benzo (a) pyrene	1300		µg/kg wet	66.6	1670		78	40-140	2	30
Indeno (1,2,3-cd) pyrene	1140		µg/kg wet	66.6	1670		68	40-140	3	30
Dibenzo (a,h) anthracene	1200		µg/kg wet	66.6	1670		72	40-140	2	30
Benzo (g,h,i) perylene	1180		µg/kg wet	66.6	1670		71	40-140	2	30
Pyridine	747		µg/kg wet	330	1670		45	40-140	8	30
1,2,4-Trichlorobenzene	888		µg/kg wet	330	1670		53	40-140	0.6	30
1,2,4,5-Tetrachlorobenzene	907		µg/kg wet	330	1670		54	40-140	4	30
Surrogate: 2-Fluorobiphenyl	994		µg/kg wet		1670		60	30-130		
Surrogate: 2-Fluorophenol	1030		µg/kg wet		1670		62	30-130		
Surrogate: Nitrobenzene-d5	1130		µg/kg wet		1670		68	30-130		
Surrogate: Phenol-d5	1070		µg/kg wet		1670		64	30-130		
Surrogate: Terphenyl-dl4	1280		µg/kg wet		1670		77	30-130		
Surrogate: 2,4,6-Tribromophenol	871		µg/kg wet		1670		52	30-130		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621521 - SW846 3546										
<u>Blank (1621521-BLK1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	< 19.2	U	µg/kg wet	19.2						
Aroclor-1016 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1221	< 19.2	U	µg/kg wet	19.2						
Aroclor-1221 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1232	< 19.2	U	µg/kg wet	19.2						
Aroclor-1232 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1242	< 19.2	U	µg/kg wet	19.2						
Aroclor-1242 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1248	< 19.2	U	µg/kg wet	19.2						
Aroclor-1248 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1254	< 19.2	U	µg/kg wet	19.2						
Aroclor-1254 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1260	< 19.2	U	µg/kg wet	19.2						
Aroclor-1260 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1262	< 19.2	U	µg/kg wet	19.2						
Aroclor-1262 [2C]	< 19.2	U	µg/kg wet	19.2						
Aroclor-1268	< 19.2	U	µg/kg wet	19.2						
Aroclor-1268 [2C]	< 19.2	U	µg/kg wet	19.2						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.3		µg/kg wet		19.2		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.3		µg/kg wet		19.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.0		µg/kg wet		19.2		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.2		µg/kg wet		19.2		100	30-150		
<u>LCS (1621521-BS1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	184		µg/kg wet	20.0	249		74	40-140		
Aroclor-1016 [2C]	169		µg/kg wet	20.0	249		68	40-140		
Aroclor-1260	197		µg/kg wet	20.0	249		79	40-140		
Aroclor-1260 [2C]	180		µg/kg wet	20.0	249		72	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.0		µg/kg wet		20.0		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.0		µg/kg wet		20.0		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	19.0		µg/kg wet		20.0		95	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.0		µg/kg wet		20.0		80	30-150		
<u>LCS Dup (1621521-BSD1)</u>					<u>Prepared: 09-Dec-16 Analyzed: 12-Dec-16</u>					
Aroclor-1016	181		µg/kg wet	19.8	248		73	40-140	2	30
Aroclor-1016 [2C]	160		µg/kg wet	19.8	248		64	40-140	5	30
Aroclor-1260	205		µg/kg wet	19.8	248		83	40-140	4	30
Aroclor-1260 [2C]	176		µg/kg wet	19.8	248		71	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.9		µg/kg wet		19.8		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.9		µg/kg wet		19.8		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.8		µg/kg wet		19.8		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.9		µg/kg wet		19.8		85	30-150		

This laboratory report is not valid without an authorized signature on the cover page.

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621824 - SW846 3050B										
<u>Blank (1621824-BLK1)</u>					<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Antimony	< 4.62	U	mg/kg wet	4.62						
Arsenic	< 1.38	U	mg/kg wet	1.38						
Silver	< 1.38	U	mg/kg wet	1.38						
Zinc	< 0.923	U	mg/kg wet	0.923						
Selenium	< 1.38	U	mg/kg wet	1.38						
Lead	< 1.38	U	mg/kg wet	1.38						
Nickel	< 0.923	U	mg/kg wet	0.923						
Copper	< 0.923	U	mg/kg wet	0.923						
Chromium	< 0.923	U	mg/kg wet	0.923						
Cadmium	< 0.462	U	mg/kg wet	0.462						
Beryllium	< 0.462	U	mg/kg wet	0.462						
Thallium	< 2.77	U	mg/kg wet	2.77						
Barium	< 0.923	U	mg/kg wet	0.923						
<u>Reference (1621824-SRM1)</u>					<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Antimony	27.2		mg/kg wet	5.00	63.6		43	25-175		
Nickel	60.0		mg/kg wet	1.00	66.7		90	82.9-117.		
								1		
Zinc	83.6		mg/kg wet	1.00	100		83	82-118		
Selenium	84.0		mg/kg wet	1.50	92.1		91	78.7-121.		
								3		
Lead	69.3		mg/kg wet	1.50	75.5		92	81.5-118.		
								5		
Chromium	68.1		mg/kg wet	1.00	74.0		92	79.7-119.		
								6		
Cadmium	38.3		mg/kg wet	0.500	45.3		85	82.6-117.		
								6		
Beryllium	48.6		mg/kg wet	0.500	50.3		97	82.6-117.		
								2		
Arsenic	69.2		mg/kg wet	1.50	75.0		92	79.3-121.		
								4		
Silver	13.1		mg/kg wet	1.50	16.2		81	75.1-124.		
								9		
Copper	87.4		mg/kg wet	1.00	89.5		98	81.5-117.		
								9		
Thallium	72.0		mg/kg wet	3.00	73.0		99	79.4-121.		
								3		
Barium	112		mg/kg wet	1.00	108		103	83.3-117.		
								2		
<u>Reference (1621824-SRM2)</u>					<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>					
Chromium	66.1		mg/kg wet	1.00	73.6		90	79.7-119.		
								6		
Zinc	81.4		mg/kg wet	1.00	99.8		82	82-118		
Thallium	69.0		mg/kg wet	3.00	72.5		95	79.4-121.		
								3		
Selenium	83.0		mg/kg wet	1.50	91.6		91	78.7-121.		
								3		
Antimony	27.7		mg/kg wet	5.00	63.3		44	25-175		
Lead	63.4		mg/kg wet	1.50	75.1		84	81.5-118.		
								5		
Copper	85.7		mg/kg wet	1.00	89.0		96	81.5-117.		
								9		
Cadmium	37.9		mg/kg wet	0.500	45.1		84	82.6-117.		
								6		
Beryllium	46.9		mg/kg wet	0.500	50.1		94	82.6-117.		
								2		
Arsenic	67.2		mg/kg wet	1.50	74.6		90	79.3-121.		
								4		

This laboratory report is not valid without an authorized signature on the cover page.

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621824 - SW846 3050B										
<u>Reference (1621824-SRM2)</u>								<u>Prepared: 15-Dec-16 Analyzed: 16-Dec-16</u>		
Silver	12.8		mg/kg wet	1.50	16.1		80	75.1-124.9		
Nickel	59.6		mg/kg wet	1.00	66.4		90	82.9-117.1		
Barium	104		mg/kg wet	1.00	108		97	83.3-117.2		
Batch 1621825 - EPA200/SW7000 Series										
<u>Blank (1621825-BLK1)</u>								<u>Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>		
Mercury	< 0.0274	U	mg/kg wet	0.0274						
<u>Reference (1621825-SRM1)</u>								<u>Prepared: 15-Dec-16 Analyzed: 20-Dec-16</u>		
Mercury	4.91	D	mg/kg wet	0.600	4.27		115	71.5-128.5		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621495 - General Preparation										
<u>Duplicate (1621495-DUP1)</u>				<u>Source: SC29309-03</u>		<u>Prepared & Analyzed: 08-Dec-16</u>				
% Solids	84.7		%			83.4			2	5
Batch 1621693 - General Preparation										
<u>Duplicate (1621693-DUP1)</u>				<u>Source: SC29309-01</u>		<u>Prepared & Analyzed: 12-Dec-16</u>				
% Solids	90.3		%			91.2			0.9	5
<u>Duplicate (1621693-DUP2)</u>				<u>Source: SC29309-02</u>		<u>Prepared & Analyzed: 12-Dec-16</u>				
% Solids	92.9		%			92.7			0.2	5

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC29309-03	<i>SB-16</i>	12/7/2016 3:34 PM
SC29309-04	<i>SP-01</i>	12/7/2016 3:34 PM
SC29309-05	<i>SP-02</i>	12/16/2016 2:28 PM

Notes and Definitions

D	Data reported from a dilution
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM10	LCS/LCSD were analyzed in place of MS/MSD.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR5	RPD out of acceptance range.
R01	The Reporting Limit has been raised to account for matrix interference.
U	Analyte included in the analysis, but not detected at or above the MDL.
UJL	Non-detect is potentially biased low (per NYSDEC).
VOC8	Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed

Special Handling:

Sc 29309

Report To: <u>AECC</u>		Invoice To: <u>AECC</u>		Project No: <u>16-319</u>	
<u>6308 Fly Road</u> <u>East Syracuse, NY 13057</u>		<u>Acids Payable</u>		Site Name: <u>1712 Erie St.</u>	
Telephone #: <u>(315) 432-9400</u>		P.O. No.: <u>116-319</u>		Location: <u>Utica</u>	
Project Mgr: <u>Rick McKenna + James Seaton</u>		Quote #:		Sample(s): <u>Pres Brantner</u>	
State: <u>NY</u>					
F=Field Filtered 1=N ₂ S ₂ O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ OH 8=NaHSO ₄ 9=Deionized Water 10=H ₃ PO ₄ 11= 12=					
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water					
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas					
X1= X2= X3=					
G=Grab C=Composite					
Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
29385-01	SB-11 (Surface)	12/7/16	0900	G	SO
1-02	SB-110 (Surface)		1114	G	SO
1-03	SB-110		1132	G	SO
1-04	SP-01		1314	5/6	SO
1-05	SP-02		1325	5/6	SO
1-06	Top Blank	12/7/16	-	-	SO
[Large diagonal line across the table]					
Relinquished by: _____ Received by: _____					
Date: <u>12/7/16</u>		Time: <u>1534</u>		Temp °C: <u>1.0</u>	
Observed: <u>1.0</u>		Corrected Factor: <u>0</u>		Condition upon receipt: <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> Ice <input type="checkbox"/> Refrigerated <input type="checkbox"/> DI VOA Frozen <input type="checkbox"/> Soil Jar Frozen	
Custody Seals: <input type="checkbox"/> Present <input type="checkbox"/> Intact <input type="checkbox"/> Broken		PDF and Excel: <u>smckenna@aecc.ny.gov</u>		E-mail to: <u>abrantner@aecc.ny.gov</u>	
MA DEP MCP CAM Report? <input type="checkbox"/> Yes <input type="checkbox"/> No CT DEP RCP Report? <input checked="" type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> ASP A* <input type="checkbox"/> ASP B* <input type="checkbox"/> NJ Reduced* <input type="checkbox"/> NJ Full* <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* Other: _____ State-specific reporting standards: _____					
Q/A/QC Reporting Notes: * additional charges may apply					

- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
21-Dec-16 17:14

Laboratory Report

AECC Environmental Consulting
6308 Fly Road
East Syracuse, NY 13057
Attn: Rich McKenna

Project: 1712 Erie St - Utica, NY
Project #: 16-319

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC29456-01	TW-1	Ground Water	08-Dec-16 10:04	08-Dec-16 15:45
SC29456-02	TW-2	Ground Water	08-Dec-16 10:39	08-Dec-16 15:45
SC29456-03	TW-3	Ground Water	08-Dec-16 11:15	08-Dec-16 15:45
SC29456-04	TW-4	Ground Water	08-Dec-16 12:27	08-Dec-16 15:45
SC29456-05	Trip Blank	Aqueous	08-Dec-16 00:00	08-Dec-16 15:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:



June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 36 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 7.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260C

Calibration:

1612010

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Isopropylbenzene
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1621841-BLK1
1621841-BS1
1621841-BSD1
S610283-ICV1
S610734-CCV1
Trip Blank
TW-1
TW-2
TW-3
TW-4

SW846 8260C

Laboratory Control Samples:

1621841 BS/BSD

Bromomethane percent recoveries (63/63) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank
TW-1
TW-2
TW-3
TW-4

Ethanol percent recoveries (72/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank
TW-1
TW-2
TW-3
TW-4

Samples:

S610734-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1-Dichloroethene (-21.9%)
2,2-Dichloropropane (27.1%)
Bromomethane (-38.6%)
Vinyl chloride (-22.6%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,1,1,2-Tetrachloroethane (23.5%)
Bromoform (22.8%)
Carbon tetrachloride (22.4%)
Dibromochloromethane (22.8%)
Ethanol (-27.3%)
trans-1,4-Dichloro-2-butene (21.3%)

This affected the following samples:

1621841-BLK1
1621841-BS1
1621841-BSD1
Trip Blank
TW-1
TW-2
TW-3
TW-4

SC29456-02 TW-2

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D

Samples:

S610752-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (108%)

SW846 8270D

Samples:

S610752-CCV1

This affected the following samples:

1621804-BLK1

1621804-BS1

1621804-BSD1

Sample Acceptance Check Form

Client: AECC Environmental Consulting
Project: 1712 Erie St - Utica, NY / 16-319
Work Order: SC29456
Sample(s) received on: 12/8/2016

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were samples refrigerated upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Hits

Lab ID: SC29456-01

Client ID: TW-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Mercury	0.00009	J	0.00020	mg/l	EPA 245.1/7470A
Arsenic	0.0076		0.0040	mg/l	SW846 6010C
Barium	0.0926		0.0050	mg/l	SW846 6010C
Cadmium	0.0003	J	0.0025	mg/l	SW846 6010C
Chromium	0.0222		0.0050	mg/l	SW846 6010C
Lead	0.0400		0.0075	mg/l	SW846 6010C
1-Methylnaphthalene	2.63	J	5.10	µg/l	SW846 8270D
2-Methylnaphthalene	1.81	J	5.10	µg/l	SW846 8270D

Lab ID: SC29456-02

Client ID: TW-2

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0018	J	0.0040	mg/l	SW846 6010C
Barium	0.117		0.0050	mg/l	SW846 6010C
Chromium	0.0014	J	0.0050	mg/l	SW846 6010C
1,1,1-Trichloroethane	14.2	J, D	20.0	µg/l	SW846 8260C
cis-1,2-Dichloroethene	1250	D	20.0	µg/l	SW846 8260C
trans-1,2-Dichloroethene	9.00	J, D	20.0	µg/l	SW846 8260C
Trichloroethene	896	D	20.0	µg/l	SW846 8260C
Vinyl chloride	27.6	D	20.0	µg/l	SW846 8260C

Lab ID: SC29456-03

Client ID: TW-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Mercury	0.00056		0.00020	mg/l	EPA 245.1/7470A
Arsenic	0.0153		0.0040	mg/l	SW846 6010C
Barium	0.389		0.0050	mg/l	SW846 6010C
Cadmium	0.0009	J	0.0025	mg/l	SW846 6010C
Chromium	0.0301		0.0050	mg/l	SW846 6010C
Lead	0.339		0.0075	mg/l	SW846 6010C
1,1-Dichloroethane	1.95		1.00	µg/l	SW846 8260C
trans-1,2-Dichloroethene	1.10		1.00	µg/l	SW846 8260C
Vinyl chloride	3.30		1.00	µg/l	SW846 8260C

Lab ID: SC29456-04

Client ID: TW-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.0036	J	0.0040	mg/l	SW846 6010C
Barium	0.204		0.0050	mg/l	SW846 6010C
Cadmium	0.0002	J	0.0025	mg/l	SW846 6010C
Chromium	0.0020	J	0.0050	mg/l	SW846 6010C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

TW-1

SC29456-01

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:04

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.89	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.44	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.20	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.60	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.22	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.83	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.49	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.43	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	1.22	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-1

SC29456-01

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:04

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.87	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.79	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.61	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.98	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	12.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	3.11	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	23.6	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	89			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	119			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	118			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMSBase NeutralsPrepared by method SW846 3510C

83-32-9	Acenaphthene	< 5.10	U	µg/l	5.10	1.20	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
---------	--------------	--------	---	------	------	------	---	-------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-1

SC29456-01

Client Project

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:04

Received

08-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
208-96-8	Acenaphthylene	< 5.10	U	µg/l	5.10	1.11	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
62-53-3	Aniline	< 5.10	U	µg/l	5.10	1.44	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.10	U	µg/l	5.10	1.18	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.10	U	µg/l	5.10	1.05	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.10	U	µg/l	5.10	2.92	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.10	U	µg/l	5.10	1.15	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.10	U	µg/l	5.10	1.03	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.10	U	µg/l	5.10	1.04	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.10	U	µg/l	5.10	1.36	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.10	U	µg/l	5.10	1.38	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.10	U	µg/l	5.10	2.03	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.10	U	µg/l	5.10	1.78	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.10	U	µg/l	5.10	1.01	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.10	U	µg/l	5.10	1.14	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.10	U	µg/l	5.10	1.22	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.10	U	µg/l	5.10	1.43	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.10	U	µg/l	5.10	1.20	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.10	U	µg/l	5.10	1.35	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.10	U	µg/l	5.10	1.27	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.10	U	µg/l	5.10	1.34	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.10	U	µg/l	5.10	1.21	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.10	U	µg/l	5.10	1.17	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.10	U	µg/l	5.10	1.06	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.10	U	µg/l	5.10	1.21	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.10	U	µg/l	5.10	1.10	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.10	U	µg/l	5.10	1.62	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.10	U	µg/l	5.10	1.22	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.10	U	µg/l	5.10	1.15	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 5.10	U	µg/l	5.10	1.58	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 5.10	U	µg/l	5.10	1.55	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 5.10	U	µg/l	5.10	1.51	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.10	U	µg/l	5.10	1.13	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.10	U	µg/l	5.10	1.87	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.10	U	µg/l	5.10	1.67	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.10	U	µg/l	5.10	1.30	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.10	U	µg/l	5.10	1.21	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.10	U	µg/l	5.10	1.21	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.10	U	µg/l	5.10	1.07	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.10	U	µg/l	5.10	1.20	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.10	U	µg/l	5.10	2.12	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.10	U	µg/l	5.10	1.54	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.10	U	µg/l	5.10	1.32	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-1

SC29456-01

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:04

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

78-59-1	Isophorone	< 5.10	U	µg/l	5.10	1.08	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
91-57-6	2-Methylnaphthalene	1.81	J	µg/l	5.10	1.23	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.10	U	µg/l	5.10	1.07	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.10	U	µg/l	5.10	1.42	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.10	U	µg/l	5.10	1.57	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.10	U	µg/l	5.10	2.18	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.10	U	µg/l	5.10	1.04	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.10	U	µg/l	5.10	1.41	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.10	U	µg/l	5.10	1.34	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.10	U	µg/l	5.10	1.49	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.10	U	µg/l	5.10	1.27	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.10	U	µg/l	5.10	1.46	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.10	U	µg/l	5.10	1.57	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.10	U	µg/l	5.10	1.30	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	2.63	J	µg/l	5.10	1.11	1	"	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.10	U	µg/l	5.10	1.06	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	45			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	30			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	45			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	21			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	52			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	47			15-110 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

Preservation	Field Preserved; pH<2 confirmed		N/A				1	EPA 200/6000 methods	13-Dec-16		BK	1621765	
--------------	---------------------------------	--	-----	--	--	--	---	----------------------	-----------	--	----	---------	--

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0008	1	SW846 6010C	16-Dec-16	19-Dec-16	EDT	1621871	X
7440-38-2	Arsenic	0.0076		mg/l	0.0040	0.0016	1	"	"	"	"	"	X
7440-39-3	Barium	0.0926		mg/l	0.0050	0.0004	1	"	"	20-Dec-16	"	"	X
7440-43-9	Cadmium	0.0003	J	mg/l	0.0025	0.0002	1	"	"	19-Dec-16	"	"	X
7440-47-3	Chromium	0.0222		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7439-92-1	Lead	0.0400		mg/l	0.0075	0.0022	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0036	1	"	"	20-Dec-16	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	0.00009	J	mg/l	0.00020	0.00009	1	EPA 245.1/7470A	16-Dec-16	20-Dec-16	JLC	1621873	X
-----------	---------	---------	---	------	---------	---------	---	-----------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-2

SC29456-02

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:39

Received

08-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 20.0	U, D	µg/l	20.0	17.8	20	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
67-64-1	Acetone	< 200	U, D	µg/l	200	68.8	20	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 10.0	U, D	µg/l	10.0	9.32	20	"	"	"	"	"	X
71-43-2	Benzene	< 20.0	U, D	µg/l	20.0	5.68	20	"	"	"	"	"	X
108-86-1	Bromobenzene	< 20.0	U, D	µg/l	20.0	4.18	20	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 20.0	U, D	µg/l	20.0	10.6	20	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 10.0	U, D	µg/l	10.0	5.34	20	"	"	"	"	"	X
75-25-2	Bromoform	< 20.0	U, D	µg/l	20.0	7.28	20	"	"	"	"	"	X
74-83-9	Bromomethane	< 40.0	U, D	µg/l	40.0	17.9	20	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 40.0	U, D	µg/l	40.0	23.9	20	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 20.0	U, D	µg/l	20.0	5.64	20	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 20.0	U, D	µg/l	20.0	6.72	20	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 20.0	U, D	µg/l	20.0	6.00	20	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 40.0	U, D	µg/l	40.0	8.26	20	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 20.0	U, D	µg/l	20.0	12.0	20	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 20.0	U, D	µg/l	20.0	4.34	20	"	"	"	"	"	X
75-00-3	Chloroethane	< 40.0	U, D	µg/l	40.0	11.8	20	"	"	"	"	"	X
67-66-3	Chloroform	< 20.0	U, D	µg/l	20.0	8.14	20	"	"	"	"	"	X
74-87-3	Chloromethane	< 40.0	U, D	µg/l	40.0	8.06	20	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 20.0	U, D	µg/l	20.0	6.32	20	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 20.0	U, D	µg/l	20.0	5.16	20	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 40.0	U, D	µg/l	40.0	17.3	20	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 10.0	U, D	µg/l	10.0	4.46	20	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 10.0	U, D	µg/l	10.0	5.34	20	"	"	"	"	"	X
74-95-3	Dibromomethane	< 20.0	U, D	µg/l	20.0	3.78	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 20.0	U, D	µg/l	20.0	4.94	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 20.0	U, D	µg/l	20.0	4.12	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 20.0	U, D	µg/l	20.0	4.92	20	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 40.0	U, D	µg/l	40.0	16.6	20	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 20.0	U, D	µg/l	20.0	6.48	20	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 20.0	U, D	µg/l	20.0	5.74	20	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 20.0	U, D	µg/l	20.0	13.9	20	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	1,250	D	µg/l	20.0	5.14	20	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	9.00	J, D	µg/l	20.0	6.34	20	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 20.0	U, D	µg/l	20.0	6.18	20	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 20.0	U, D	µg/l	20.0	4.50	20	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 20.0	U, D	µg/l	20.0	13.4	20	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 20.0	U, D	µg/l	20.0	9.64	20	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 10.0	U, D	µg/l	10.0	5.46	20	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 10.0	U, D	µg/l	10.0	9.82	20	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 20.0	U, D	µg/l	20.0	6.08	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 10.0	U, D	µg/l	10.0	8.66	20	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 40.0	U, D	µg/l	40.0	24.4	20	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-2

SC29456-02

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:39

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260				GS1									
98-82-8	Isopropylbenzene	< 20.0	U, D	µg/l	20.0	7.20	20	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
99-87-6	4-Isopropyltoluene	< 20.0	U, D	µg/l	20.0	8.22	20	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 20.0	U, D	µg/l	20.0	5.56	20	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 40.0	U, D	µg/l	40.0	17.4	20	"	"	"	"	"	X
75-09-2	Methylene chloride	< 40.0	U, D	µg/l	40.0	15.7	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 20.0	U, D	µg/l	20.0	6.92	20	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 20.0	U, D	µg/l	20.0	6.34	20	"	"	"	"	"	X
100-42-5	Styrene	< 20.0	U, D	µg/l	20.0	8.04	20	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 20.0	U, D	µg/l	20.0	11.8	20	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 10.0	U, D	µg/l	10.0	6.20	20	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 20.0	U, D	µg/l	20.0	11.4	20	"	"	"	"	"	X
108-88-3	Toluene	< 20.0	U, D	µg/l	20.0	5.66	20	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 20.0	U, D	µg/l	20.0	9.82	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 20.0	U, D	µg/l	20.0	9.00	20	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 20.0	U, D	µg/l	20.0	5.56	20	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	14.2	J, D	µg/l	20.0	9.66	20	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 20.0	U, D	µg/l	20.0	7.28	20	"	"	"	"	"	X
79-01-6	Trichloroethene	896	D	µg/l	20.0	7.60	20	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 20.0	U, D	µg/l	20.0	12.2	20	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 20.0	U, D	µg/l	20.0	5.10	20	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 20.0	U, D	µg/l	20.0	5.34	20	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 20.0	U, D	µg/l	20.0	5.16	20	"	"	"	"	"	X
75-01-4	Vinyl chloride	27.6	D	µg/l	20.0	10.3	20	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 40.0	U, D	µg/l	40.0	7.60	20	"	"	"	"	"	X
95-47-6	o-Xylene	< 20.0	U, D	µg/l	20.0	9.40	20	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 40.0	U, D	µg/l	40.0	21.2	20	"	"	"	"	"	
60-29-7	Ethyl ether	< 20.0	U, D	µg/l	20.0	8.60	20	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 20.0	U, D	µg/l	20.0	9.88	20	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 20.0	U, D	µg/l	20.0	4.82	20	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 20.0	U, D	µg/l	20.0	4.70	20	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 200	U, D	µg/l	200	120	20	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 400	U, D	µg/l	400	254	20	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 100	U, D	µg/l	100	62.2	20	"	"	"	"	"	X
64-17-5	Ethanol	< 4000	U, D	µg/l	4000	473	20	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	86			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	118			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	118			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMSBase NeutralsPrepared by method SW846 3510C

83-32-9	Acenaphthene	< 5.32	U	µg/l	5.32	1.26	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
---------	--------------	--------	---	------	------	------	---	-------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-2

SC29456-02

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:39

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
208-96-8	Acenaphthylene	< 5.32	U	µg/l	5.32	1.16	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
62-53-3	Aniline	< 5.32	U	µg/l	5.32	1.50	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.32	U	µg/l	5.32	1.23	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.32	U	µg/l	5.32	1.10	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.32	U	µg/l	5.32	3.04	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.32	U	µg/l	5.32	1.20	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.32	U	µg/l	5.32	1.07	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.32	U	µg/l	5.32	1.09	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.32	U	µg/l	5.32	1.41	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.32	U	µg/l	5.32	1.44	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.32	U	µg/l	5.32	2.12	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.32	U	µg/l	5.32	1.85	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.32	U	µg/l	5.32	1.05	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.32	U	µg/l	5.32	1.19	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.32	U	µg/l	5.32	1.28	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.32	U	µg/l	5.32	1.49	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.32	U	µg/l	5.32	1.26	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.32	U	µg/l	5.32	1.40	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.32	U	µg/l	5.32	1.32	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.32	U	µg/l	5.32	1.39	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.32	U	µg/l	5.32	1.27	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.32	U	µg/l	5.32	1.22	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.32	U	µg/l	5.32	1.11	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.32	U	µg/l	5.32	1.27	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.32	U	µg/l	5.32	1.15	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.32	U	µg/l	5.32	1.69	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.32	U	µg/l	5.32	1.28	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.32	U	µg/l	5.32	1.20	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 5.32	U	µg/l	5.32	1.65	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 5.32	U	µg/l	5.32	1.62	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 5.32	U	µg/l	5.32	1.57	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.32	U	µg/l	5.32	1.18	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.32	U	µg/l	5.32	1.95	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.32	U	µg/l	5.32	1.74	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.32	U	µg/l	5.32	1.35	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.32	U	µg/l	5.32	1.27	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.32	U	µg/l	5.32	1.27	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.32	U	µg/l	5.32	1.12	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.32	U	µg/l	5.32	1.26	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.32	U	µg/l	5.32	2.21	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.32	U	µg/l	5.32	1.61	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.32	U	µg/l	5.32	1.37	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-2

SC29456-02

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 10:39

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

78-59-1	Isophorone	< 5.32	U	µg/l	5.32	1.13	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
91-57-6	2-Methylnaphthalene	< 5.32	U	µg/l	5.32	1.29	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.32	U	µg/l	5.32	1.12	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.32	U	µg/l	5.32	1.48	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.32	U	µg/l	5.32	1.64	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.32	U	µg/l	5.32	2.28	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.32	U	µg/l	5.32	1.09	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.32	U	µg/l	5.32	1.47	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.32	U	µg/l	5.32	1.39	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.32	U	µg/l	5.32	1.55	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.32	U	µg/l	5.32	1.32	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.32	U	µg/l	5.32	1.52	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.32	U	µg/l	5.32	1.64	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.32	U	µg/l	5.32	1.35	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.32	U	µg/l	5.32	1.16	1	"	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 5.32	U	µg/l	5.32	1.11	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	37			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	8			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	37			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	7			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	47			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	12			15-110 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

Preservation	Field Preserved; pH<2 confirmed		N/A				1	EPA 200/6000 methods	13-Dec-16		BK	1621765	
--------------	---------------------------------------	--	-----	--	--	--	---	-------------------------	-----------	--	----	---------	--

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0008	1	SW846 6010C	16-Dec-16	19-Dec-16	EDT	1621871	X
7440-38-2	Arsenic	0.0018	J	mg/l	0.0040	0.0016	1	"	"	"	"	"	X
7440-39-3	Barium	0.117		mg/l	0.0050	0.0004	1	"	"	20-Dec-16	"	"	X
7440-43-9	Cadmium	< 0.0025	U	mg/l	0.0025	0.0002	1	"	"	19-Dec-16	"	"	X
7440-47-3	Chromium	0.0014	J	mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0022	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0036	1	"	"	20-Dec-16	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00009	1	EPA 245.1/7470A	16-Dec-16	20-Dec-16	JLC	1621873	X
-----------	---------	-----------	---	------	---------	---------	---	--------------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-3

SC29456-03

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 11:15

Received

08-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.89	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.44	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.20	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.60	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.22	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.83	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	1.95		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	1.10		µg/l	1.00	0.32	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.49	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.43	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	1.22	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-3

SC29456-03

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 11:15

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.87	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.79	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.61	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	3.30		µg/l	1.00	0.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.98	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	12.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	3.11	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	23.6	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	86			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	105			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	120			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	120			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMSBase NeutralsPrepared by method SW846 3510C

83-32-9	Acenaphthene	< 5.15	U	µg/l	5.15	1.22	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
---------	--------------	--------	---	------	------	------	---	-------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-3

SC29456-03

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 11:15

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
208-96-8	Acenaphthylene	< 5.15	U	µg/l	5.15	1.12	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
62-53-3	Aniline	< 5.15	U	µg/l	5.15	1.45	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.15	U	µg/l	5.15	1.20	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.15	U	µg/l	5.15	1.06	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.15	U	µg/l	5.15	2.95	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.15	U	µg/l	5.15	1.16	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.15	U	µg/l	5.15	1.04	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.15	U	µg/l	5.15	1.05	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.15	U	µg/l	5.15	1.37	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.15	U	µg/l	5.15	1.39	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.15	U	µg/l	5.15	2.05	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.15	U	µg/l	5.15	1.79	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.15	U	µg/l	5.15	1.02	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.15	U	µg/l	5.15	1.15	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.15	U	µg/l	5.15	1.24	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.15	U	µg/l	5.15	1.44	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.15	U	µg/l	5.15	1.22	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.15	U	µg/l	5.15	1.36	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.15	U	µg/l	5.15	1.28	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.15	U	µg/l	5.15	1.35	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.15	U	µg/l	5.15	1.19	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.15	U	µg/l	5.15	1.07	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.15	U	µg/l	5.15	1.11	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.64	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.24	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.16	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 5.15	U	µg/l	5.15	1.60	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 5.15	U	µg/l	5.15	1.57	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 5.15	U	µg/l	5.15	1.53	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.15	U	µg/l	5.15	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.15	U	µg/l	5.15	1.89	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.15	U	µg/l	5.15	1.69	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.15	U	µg/l	5.15	1.31	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.15	U	µg/l	5.15	1.08	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.15	U	µg/l	5.15	1.22	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.15	U	µg/l	5.15	2.14	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.15	U	µg/l	5.15	1.56	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.15	U	µg/l	5.15	1.33	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-3

SC29456-03

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 11:15

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

78-59-1	Isophorone	< 5.15	U	µg/l	5.15	1.09	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
91-57-6	2-Methylnaphthalene	< 5.15	U	µg/l	5.15	1.25	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.15	U	µg/l	5.15	1.08	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.15	U	µg/l	5.15	1.43	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.15	U	µg/l	5.15	1.59	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.15	U	µg/l	5.15	2.21	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.15	U	µg/l	5.15	1.05	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.15	U	µg/l	5.15	1.42	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.15	U	µg/l	5.15	1.35	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.15	U	µg/l	5.15	1.51	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.15	U	µg/l	5.15	1.28	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.15	U	µg/l	5.15	1.47	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.15	U	µg/l	5.15	1.59	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.15	U	µg/l	5.15	1.31	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.15	U	µg/l	5.15	1.12	1	"	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.15	U	µg/l	5.15	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	36			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	23			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	34			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	18			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	46			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	41			15-110 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

Preservation	Field Preserved; pH<2 confirmed	N/A					1	EPA 200/6000 methods	13-Dec-16		BK	1621765	
--------------	---------------------------------	-----	--	--	--	--	---	----------------------	-----------	--	----	---------	--

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0008	1	SW846 6010C	16-Dec-16	19-Dec-16	EDT	1621871	X
7440-38-2	Arsenic	0.0153		mg/l	0.0040	0.0016	1	"	"	"	"	"	X
7440-39-3	Barium	0.389		mg/l	0.0050	0.0004	1	"	"	20-Dec-16	"	"	X
7440-43-9	Cadmium	0.0009	J	mg/l	0.0025	0.0002	1	"	"	19-Dec-16	"	"	X
7440-47-3	Chromium	0.0301		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7439-92-1	Lead	0.339		mg/l	0.0075	0.0022	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0036	1	"	"	20-Dec-16	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	0.00056		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	16-Dec-16	20-Dec-16	JLC	1621873	X
-----------	---------	---------	--	------	---------	---------	---	-----------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-4

SC29456-04

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 12:27

Received

08-Dec-16

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.89	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.44	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.20	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.60	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.22	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.83	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.49	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.43	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	1.22	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-4

SC29456-04

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 12:27

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.87	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.79	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.61	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.98	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	12.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00	3.11	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	23.6	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	86			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	103			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	122			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	123			70-130 %		"	"	"	"	"	"	

Semivolatile Organic Compounds by GCMSBase NeutralsPrepared by method SW846 3510C

83-32-9	Acenaphthene	< 5.15	U	µg/l	5.15	1.22	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
---------	--------------	--------	---	------	------	------	---	-------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-4

SC29456-04

Client Project

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 12:27

Received

08-Dec-16

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Base Neutrals													
208-96-8	Acenaphthylene	< 5.15	U	µg/l	5.15	1.12	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
62-53-3	Aniline	< 5.15	U	µg/l	5.15	1.45	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.15	U	µg/l	5.15	1.20	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.15	U	µg/l	5.15	1.06	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.15	U	µg/l	5.15	2.95	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.15	U	µg/l	5.15	1.16	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.15	U	µg/l	5.15	1.04	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.15	U	µg/l	5.15	1.05	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.15	U	µg/l	5.15	1.37	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.15	U	µg/l	5.15	1.39	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.15	U	µg/l	5.15	2.05	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.15	U	µg/l	5.15	1.79	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.15	U	µg/l	5.15	1.02	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.15	U	µg/l	5.15	1.15	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.15	U	µg/l	5.15	1.24	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.15	U	µg/l	5.15	1.44	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.15	U	µg/l	5.15	1.22	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.15	U	µg/l	5.15	1.36	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.15	U	µg/l	5.15	1.28	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.15	U	µg/l	5.15	1.35	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.15	U	µg/l	5.15	1.19	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.15	U	µg/l	5.15	1.07	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.15	U	µg/l	5.15	1.11	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.64	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.24	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.15	U	µg/l	5.15	1.16	1	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 5.15	U	µg/l	5.15	1.60	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 5.15	U	µg/l	5.15	1.57	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 5.15	U	µg/l	5.15	1.53	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.15	U	µg/l	5.15	1.14	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.15	U	µg/l	5.15	1.89	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.15	U	µg/l	5.15	1.69	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.15	U	µg/l	5.15	1.31	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.15	U	µg/l	5.15	1.23	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.15	U	µg/l	5.15	1.08	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.15	U	µg/l	5.15	1.22	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.15	U	µg/l	5.15	2.14	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.15	U	µg/l	5.15	1.56	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.15	U	µg/l	5.15	1.33	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TW-4

SC29456-04

Client Project #

16-319

Matrix

Ground Water

Collection Date/Time

08-Dec-16 12:27

Received

08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Semivolatile Organic Compounds by GCMSBase Neutrals

78-59-1	Isophorone	< 5.15	U	µg/l	5.15	1.09	1	SW846 8270D	14-Dec-16	20-Dec-16	MSL	1621804	X
91-57-6	2-Methylnaphthalene	< 5.15	U	µg/l	5.15	1.25	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.15	U	µg/l	5.15	1.08	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.15	U	µg/l	5.15	1.43	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.15	U	µg/l	5.15	1.59	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.15	U	µg/l	5.15	2.21	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.15	U	µg/l	5.15	1.05	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.15	U	µg/l	5.15	1.42	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.15	U	µg/l	5.15	1.35	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.15	U	µg/l	5.15	1.51	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.15	U	µg/l	5.15	1.28	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.15	U	µg/l	5.15	1.47	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.15	U	µg/l	5.15	1.59	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.15	U	µg/l	5.15	1.31	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.15	U	µg/l	5.15	1.12	1	"	"	"	"	"	
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.15	U	µg/l	5.15	1.07	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	45			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	33			15-110 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	45			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	25			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	60			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	55			15-110 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series MethodsPrepared by method General Prep-Metal

Preservation	Field Preserved; pH<2 confirmed	N/A					1	EPA 200/6000 methods	13-Dec-16		BK	1621765	
--------------	---------------------------------	-----	--	--	--	--	---	----------------------	-----------	--	----	---------	--

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3005A

7440-22-4	Silver	< 0.0050	U	mg/l	0.0050	0.0008	1	SW846 6010C	16-Dec-16	19-Dec-16	EDT	1621871	X
7440-38-2	Arsenic	0.0036	J	mg/l	0.0040	0.0016	1	"	"	"	"	"	X
7440-39-3	Barium	0.204		mg/l	0.0050	0.0004	1	"	"	20-Dec-16	"	"	X
7440-43-9	Cadmium	0.0002	J	mg/l	0.0025	0.0002	1	"	"	19-Dec-16	"	"	X
7440-47-3	Chromium	0.0020	J	mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0075	U	mg/l	0.0075	0.0022	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150	U	mg/l	0.0150	0.0036	1	"	"	20-Dec-16	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00020	U	mg/l	0.00020	0.00009	1	EPA 245.1/7470A	16-Dec-16	20-Dec-16	JLC	1621873	X
-----------	---------	-----------	---	------	---------	---------	---	-----------------	-----------	-----------	-----	---------	---

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank
SC29456-05

Client Project #
16-319

Matrix
Aqueous

Collection Date/Time
08-Dec-16 00:00

Received
08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00	0.89	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
67-64-1	Acetone	< 10.0	U	µg/l	10.0	3.44	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50	U	µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00	U	µg/l	1.00	0.53	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00	U	µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00	U	µg/l	2.00	1.20	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00	U	µg/l	1.00	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00	U	µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00	U	µg/l	1.00	0.60	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00	U	µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00	U	µg/l	2.00	0.40	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50	U	µg/l	0.50	0.22	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00	U	µg/l	1.00	0.19	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.21	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00	0.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00	0.83	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00	U	µg/l	1.00	0.29	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.31	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00	U	µg/l	1.00	0.22	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.27	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.49	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00	U	µg/l	1.00	0.30	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50	U	µg/l	0.50	0.43	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00	U	µg/l	2.00	1.22	1	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

Trip Blank
SC29456-05

Client Project #
16-319

Matrix
Aqueous

Collection Date/Time
08-Dec-16 00:00

Received
08-Dec-16

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 1.00	U	µg/l	1.00	0.36	1	SW846 8260C	14-Dec-16	14-Dec-16	GMA	1621841	X
99-87-6	4-Isopropyltoluene	< 1.00	U	µg/l	1.00	0.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00	0.87	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00	U	µg/l	2.00	0.79	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00	U	µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00	U	µg/l	1.00	0.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00	U	µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00	0.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50	0.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00	U	µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.45	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00	0.28	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00	0.48	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00	0.61	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.27	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00	0.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00	U	µg/l	1.00	0.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00	U	µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00	U	µg/l	1.00	0.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00	U	µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00	U	µg/l	1.00	0.43	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00	U	µg/l	1.00	0.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0	5.98	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0	U	µg/l	20.0	12.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00	U	µg/l	5.00	3.11	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200	U	µg/l	200	23.6	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	84		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	123		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	122		70-130 %		"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621841 - SW846 5030 Water MS										
Blank (1621841-BLK1)	Prepared & Analyzed: 14-Dec-16									
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00	U	µg/l	1.00						
Acetone	< 10.0	U	µg/l	10.0						
Acrylonitrile	< 0.50	U	µg/l	0.50						
Benzene	< 1.00	U	µg/l	1.00						
Bromobenzene	< 1.00	U	µg/l	1.00						
Bromochloromethane	< 1.00	U	µg/l	1.00						
Bromodichloromethane	< 0.50	U	µg/l	0.50						
Bromoform	< 1.00	U	µg/l	1.00						
Bromomethane	< 2.00	U	µg/l	2.00						
2-Butanone (MEK)	< 2.00	U	µg/l	2.00						
n-Butylbenzene	< 1.00	U	µg/l	1.00						
sec-Butylbenzene	< 1.00	U	µg/l	1.00						
tert-Butylbenzene	< 1.00	U	µg/l	1.00						
Carbon disulfide	< 2.00	U	µg/l	2.00						
Carbon tetrachloride	< 1.00	U	µg/l	1.00						
Chlorobenzene	< 1.00	U	µg/l	1.00						
Chloroethane	< 2.00	U	µg/l	2.00						
Chloroform	< 1.00	U	µg/l	1.00						
Chloromethane	< 2.00	U	µg/l	2.00						
2-Chlorotoluene	< 1.00	U	µg/l	1.00						
4-Chlorotoluene	< 1.00	U	µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00	U	µg/l	2.00						
Dibromochloromethane	< 0.50	U	µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50	U	µg/l	0.50						
Dibromomethane	< 1.00	U	µg/l	1.00						
1,2-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,3-Dichlorobenzene	< 1.00	U	µg/l	1.00						
1,4-Dichlorobenzene	< 1.00	U	µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00	U	µg/l	2.00						
1,1-Dichloroethane	< 1.00	U	µg/l	1.00						
1,2-Dichloroethane	< 1.00	U	µg/l	1.00						
1,1-Dichloroethene	< 1.00	U	µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00	U	µg/l	1.00						
1,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,3-Dichloropropane	< 1.00	U	µg/l	1.00						
2,2-Dichloropropane	< 1.00	U	µg/l	1.00						
1,1-Dichloropropene	< 1.00	U	µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 1.00	U	µg/l	1.00						
Hexachlorobutadiene	< 0.50	U	µg/l	0.50						
2-Hexanone (MBK)	< 2.00	U	µg/l	2.00						
Isopropylbenzene	< 1.00	U	µg/l	1.00						
4-Isopropyltoluene	< 1.00	U	µg/l	1.00						
Methyl tert-butyl ether	< 1.00	U	µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00	U	µg/l	2.00						
Methylene chloride	< 2.00	U	µg/l	2.00						
Naphthalene	< 1.00	U	µg/l	1.00						
n-Propylbenzene	< 1.00	U	µg/l	1.00						
Styrene	< 1.00	U	µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00	U	µg/l	1.00						

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621841 - SW846 5030 Water MS										
Blank (1621841-BLK1)					<u>Prepared & Analyzed: 14-Dec-16</u>					
1,1,2,2-Tetrachloroethane	< 0.50	U	µg/l	0.50						
Tetrachloroethene	< 1.00	U	µg/l	1.00						
Toluene	< 1.00	U	µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00	U	µg/l	1.00						
1,1,1-Trichloroethane	< 1.00	U	µg/l	1.00						
1,1,2-Trichloroethane	< 1.00	U	µg/l	1.00						
Trichloroethene	< 1.00	U	µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00	U	µg/l	1.00						
1,2,3-Trichloropropane	< 1.00	U	µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00	U	µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00	U	µg/l	1.00						
Vinyl chloride	< 1.00	U	µg/l	1.00						
m,p-Xylene	< 2.00	U	µg/l	2.00						
o-Xylene	< 1.00	U	µg/l	1.00						
Tetrahydrofuran	< 2.00	U	µg/l	2.00						
Ethyl ether	< 1.00	U	µg/l	1.00						
Tert-amyl methyl ether	< 1.00	U	µg/l	1.00						
Ethyl tert-butyl ether	< 1.00	U	µg/l	1.00						
Di-isopropyl ether	< 1.00	U	µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0	U	µg/l	10.0						
1,4-Dioxane	< 20.0	U	µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00	U	µg/l	5.00						
Ethanol	< 200	U	µg/l	200						
<hr/>										
Surrogate: 4-Bromofluorobenzene	41.2		µg/l		50.0		82	70-130		
Surrogate: Toluene-d8	51.2		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	61.6		µg/l		50.0		123	70-130		
Surrogate: Dibromofluoromethane	61.2		µg/l		50.0		122	70-130		
LCS (1621841-BS1)					<u>Prepared & Analyzed: 14-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.5		µg/l		20.0		78	70-130		
Acetone	17.3		µg/l		20.0		86	70-130		
Acrylonitrile	15.8		µg/l		20.0		79	70-130		
Benzene	20.3		µg/l		20.0		102	70-130		
Bromobenzene	20.9		µg/l		20.0		104	70-130		
Bromochloromethane	21.6		µg/l		20.0		108	70-130		
Bromodichloromethane	21.6		µg/l		20.0		108	70-130		
Bromoform	22.9		µg/l		20.0		115	70-130		
Bromomethane	12.7		µg/l		20.0		63	70-130		
2-Butanone (MEK)	17.5		µg/l		20.0		88	70-130		
n-Butylbenzene	17.4		µg/l		20.0		87	70-130		
sec-Butylbenzene	19.9		µg/l		20.0		100	70-130		
tert-Butylbenzene	19.4		µg/l		20.0		97	70-130		
Carbon disulfide	15.5		µg/l		20.0		77	70-130		
Carbon tetrachloride	22.6		µg/l		20.0		113	70-130		
Chlorobenzene	19.8		µg/l		20.0		99	70-130		
Chloroethane	15.2		µg/l		20.0		76	70-130		
Chloroform	18.0		µg/l		20.0		90	70-130		
Chloromethane	14.5		µg/l		20.0		72	70-130		
2-Chlorotoluene	18.3		µg/l		20.0		91	70-130		
4-Chlorotoluene	19.2		µg/l		20.0		96	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621841 - SW846 5030 Water MS										
<u>LCS (1621841-BS1)</u>	<u>Prepared & Analyzed: 14-Dec-16</u>									
1,2-Dibromo-3-chloropropane	20.8		µg/l		20.0		104	70-130		
Dibromochloromethane	22.6		µg/l		20.0		113	70-130		
1,2-Dibromoethane (EDB)	20.7		µg/l		20.0		103	70-130		
Dibromomethane	22.0		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	19.6		µg/l		20.0		98	70-130		
1,3-Dichlorobenzene	20.2		µg/l		20.0		101	70-130		
1,4-Dichlorobenzene	17.8		µg/l		20.0		89	70-130		
Dichlorodifluoromethane (Freon12)	18.4		µg/l		20.0		92	70-130		
1,1-Dichloroethane	20.4		µg/l		20.0		102	70-130		
1,2-Dichloroethane	21.3		µg/l		20.0		107	70-130		
1,1-Dichloroethene	14.6		µg/l		20.0		73	70-130		
cis-1,2-Dichloroethene	20.7		µg/l		20.0		103	70-130		
trans-1,2-Dichloroethene	20.5		µg/l		20.0		103	70-130		
1,2-Dichloropropane	19.9		µg/l		20.0		100	70-130		
1,3-Dichloropropane	20.4		µg/l		20.0		102	70-130		
2,2-Dichloropropane	23.6		µg/l		20.0		118	70-130		
1,1-Dichloropropene	18.8		µg/l		20.0		94	70-130		
cis-1,3-Dichloropropene	19.9		µg/l		20.0		99	70-130		
trans-1,3-Dichloropropene	21.1		µg/l		20.0		106	70-130		
Ethylbenzene	18.0		µg/l		20.0		90	70-130		
Hexachlorobutadiene	17.1		µg/l		20.0		85	70-130		
2-Hexanone (MBK)	18.9		µg/l		20.0		94	70-130		
Isopropylbenzene	19.5		µg/l		20.0		98	70-130		
4-Isopropyltoluene	18.4		µg/l		20.0		92	70-130		
Methyl tert-butyl ether	20.9		µg/l		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	18.3		µg/l		20.0		92	70-130		
Methylene chloride	15.2		µg/l		20.0		76	70-130		
Naphthalene	19.2		µg/l		20.0		96	70-130		
n-Propylbenzene	18.3		µg/l		20.0		91	70-130		
Styrene	18.6		µg/l		20.0		93	70-130		
1,1,1,2-Tetrachloroethane	22.4		µg/l		20.0		112	70-130		
1,1,2,2-Tetrachloroethane	21.7		µg/l		20.0		109	70-130		
Tetrachloroethene	18.8		µg/l		20.0		94	70-130		
Toluene	19.3		µg/l		20.0		97	70-130		
1,2,3-Trichlorobenzene	18.9		µg/l		20.0		95	70-130		
1,2,4-Trichlorobenzene	17.0		µg/l		20.0		85	70-130		
1,3,5-Trichlorobenzene	17.2		µg/l		20.0		86	70-130		
1,1,1-Trichloroethane	21.8		µg/l		20.0		109	70-130		
1,1,2-Trichloroethane	19.7		µg/l		20.0		98	70-130		
Trichloroethene	18.1		µg/l		20.0		90	70-130		
Trichlorofluoromethane (Freon 11)	18.9		µg/l		20.0		94	70-130		
1,2,3-Trichloropropane	21.9		µg/l		20.0		109	70-130		
1,2,4-Trimethylbenzene	19.1		µg/l		20.0		95	70-130		
1,3,5-Trimethylbenzene	19.3		µg/l		20.0		97	70-130		
Vinyl chloride	14.6		µg/l		20.0		73	70-130		
m,p-Xylene	18.8		µg/l		20.0		94	70-130		
o-Xylene	19.0		µg/l		20.0		95	70-130		
Tetrahydrofuran	19.4		µg/l		20.0		97	70-130		
Ethyl ether	14.5		µg/l		20.0		73	70-130		
Tert-amyl methyl ether	17.4		µg/l		20.0		87	70-130		
Ethyl tert-butyl ether	21.0		µg/l		20.0		105	70-130		
Di-isopropyl ether	20.2		µg/l		20.0		101	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621841 - SW846 5030 Water MS										
<u>LCS (1621841-BS1)</u>					<u>Prepared & Analyzed: 14-Dec-16</u>					
Tert-Butanol / butyl alcohol	151		µg/l		200		75	70-130		
1,4-Dioxane	207		µg/l		200		103	70-130		
trans-1,4-Dichloro-2-butene	23.2		µg/l		20.0		116	70-130		
Ethanol	286		µg/l		400		72	70-130		
Surrogate: 4-Bromofluorobenzene	56.3		µg/l		50.0		113	70-130		
Surrogate: Toluene-d8	50.8		µg/l		50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.6		µg/l		50.0		105	70-130		
Surrogate: Dibromofluoromethane	53.4		µg/l		50.0		107	70-130		
<u>LCS Dup (1621841-BS1)</u>					<u>Prepared & Analyzed: 14-Dec-16</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.9		µg/l		20.0		79	70-130	2	20
Acetone	15.0		µg/l		20.0		75	70-130	14	20
Acrylonitrile	16.8		µg/l		20.0		84	70-130	6	20
Benzene	20.5		µg/l		20.0		102	70-130	0.8	20
Bromobenzene	22.3		µg/l		20.0		111	70-130	6	20
Bromochloromethane	21.3		µg/l		20.0		106	70-130	1	20
Bromodichloromethane	21.4		µg/l		20.0		107	70-130	0.9	20
Bromoform	24.1		µg/l		20.0		120	70-130	5	20
Bromomethane	12.6		µg/l		20.0		63	70-130	0.5	20
2-Butanone (MEK)	21.2		µg/l		20.0		106	70-130	19	20
n-Butylbenzene	17.3		µg/l		20.0		87	70-130	0.3	20
sec-Butylbenzene	20.1		µg/l		20.0		101	70-130	1	20
tert-Butylbenzene	20.5		µg/l		20.0		103	70-130	6	20
Carbon disulfide	15.5		µg/l		20.0		78	70-130	0.4	20
Carbon tetrachloride	22.8		µg/l		20.0		114	70-130	1	20
Chlorobenzene	20.8		µg/l		20.0		104	70-130	5	20
Chloroethane	15.2		µg/l		20.0		76	70-130	0.2	20
Chloroform	18.3		µg/l		20.0		91	70-130	1	20
Chloromethane	14.2		µg/l		20.0		71	70-130	2	20
2-Chlorotoluene	18.8		µg/l		20.0		94	70-130	3	20
4-Chlorotoluene	20.0		µg/l		20.0		100	70-130	4	20
1,2-Dibromo-3-chloropropane	22.5		µg/l		20.0		112	70-130	8	20
Dibromochloromethane	23.3		µg/l		20.0		117	70-130	3	20
1,2-Dibromoethane (EDB)	21.6		µg/l		20.0		108	70-130	5	20
Dibromomethane	22.3		µg/l		20.0		111	70-130	1	20
1,2-Dichlorobenzene	19.5		µg/l		20.0		97	70-130	0.3	20
1,3-Dichlorobenzene	20.9		µg/l		20.0		104	70-130	3	20
1,4-Dichlorobenzene	18.3		µg/l		20.0		92	70-130	3	20
Dichlorodifluoromethane (Freon12)	18.2		µg/l		20.0		91	70-130	0.9	20
1,1-Dichloroethane	20.4		µg/l		20.0		102	70-130	0.3	20
1,2-Dichloroethane	21.4		µg/l		20.0		107	70-130	0.5	20
1,1-Dichloroethene	14.6		µg/l		20.0		73	70-130	0	20
cis-1,2-Dichloroethene	20.9		µg/l		20.0		105	70-130	1	20
trans-1,2-Dichloroethene	20.3		µg/l		20.0		102	70-130	1	20
1,2-Dichloropropane	19.6		µg/l		20.0		98	70-130	2	20
1,3-Dichloropropane	20.9		µg/l		20.0		105	70-130	2	20
2,2-Dichloropropane	23.8		µg/l		20.0		119	70-130	0.9	20
1,1-Dichloropropene	19.0		µg/l		20.0		95	70-130	0.9	20
cis-1,3-Dichloropropene	20.6		µg/l		20.0		103	70-130	4	20
trans-1,3-Dichloropropene	21.4		µg/l		20.0		107	70-130	1	20
Ethylbenzene	19.3		µg/l		20.0		96	70-130	7	20
Hexachlorobutadiene	16.7		µg/l		20.0		84	70-130	2	20

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621841 - SW846 5030 Water MS										
<u>LCS Dup (1621841-BSD1)</u>	<u>Prepared & Analyzed: 14-Dec-16</u>									
2-Hexanone (MBK)	19.6		µg/l		20.0		98	70-130	4	20
Isopropylbenzene	20.4		µg/l		20.0		102	70-130	4	20
4-Isopropyltoluene	18.6		µg/l		20.0		93	70-130	1	20
Methyl tert-butyl ether	21.8		µg/l		20.0		109	70-130	4	20
4-Methyl-2-pentanone (MIBK)	18.7		µg/l		20.0		94	70-130	2	20
Methylene chloride	15.0		µg/l		20.0		75	70-130	2	20
Naphthalene	19.9		µg/l		20.0		99	70-130	3	20
n-Propylbenzene	19.0		µg/l		20.0		95	70-130	4	20
Styrene	19.4		µg/l		20.0		97	70-130	5	20
1,1,1,2-Tetrachloroethane	23.4		µg/l		20.0		117	70-130	4	20
1,1,2,2-Tetrachloroethane	22.9		µg/l		20.0		115	70-130	5	20
Tetrachloroethene	19.1		µg/l		20.0		96	70-130	2	20
Toluene	19.8		µg/l		20.0		99	70-130	2	20
1,2,3-Trichlorobenzene	19.1		µg/l		20.0		96	70-130	1	20
1,2,4-Trichlorobenzene	17.5		µg/l		20.0		87	70-130	3	20
1,3,5-Trichlorobenzene	17.8		µg/l		20.0		89	70-130	3	20
1,1,1-Trichloroethane	22.0		µg/l		20.0		110	70-130	0.5	20
1,1,2-Trichloroethane	20.0		µg/l		20.0		100	70-130	2	20
Trichloroethene	18.2		µg/l		20.0		91	70-130	0.4	20
Trichlorofluoromethane (Freon 11)	18.5		µg/l		20.0		93	70-130	2	20
1,2,3-Trichloropropane	23.3		µg/l		20.0		116	70-130	6	20
1,2,4-Trimethylbenzene	19.8		µg/l		20.0		99	70-130	4	20
1,3,5-Trimethylbenzene	20.0		µg/l		20.0		100	70-130	3	20
Vinyl chloride	14.2		µg/l		20.0		71	70-130	2	20
m,p-Xylene	19.6		µg/l		20.0		98	70-130	4	20
o-Xylene	20.1		µg/l		20.0		101	70-130	6	20
Tetrahydrofuran	19.2		µg/l		20.0		96	70-130	1	20
Ethyl ether	15.6		µg/l		20.0		78	70-130	7	20
Tert-amyl methyl ether	18.5		µg/l		20.0		93	70-130	6	20
Ethyl tert-butyl ether	21.6		µg/l		20.0		108	70-130	3	20
Di-isopropyl ether	20.8		µg/l		20.0		104	70-130	3	20
Tert-Butanol / butyl alcohol	165		µg/l		200		82	70-130	9	20
1,4-Dioxane	207		µg/l		200		104	70-130	0.09	20
trans-1,4-Dichloro-2-butene	24.6		µg/l		20.0		123	70-130	6	20
Ethanol	275	QM9	µg/l		400		69	70-130	4	20
Surrogate: 4-Bromofluorobenzene	57.9		µg/l		50.0		116	70-130		
Surrogate: Toluene-d8	50.6		µg/l		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.7		µg/l		50.0		105	70-130		
Surrogate: Dibromofluoromethane	53.0		µg/l		50.0		106	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621804 - SW846 3510C										
<u>Blank (1621804-BLK1)</u>	<u>Prepared & Analyzed: 14-Dec-16</u>									
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 5.00	U	µg/l	5.00						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3'-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621804 - SW846 3510C										
Blank (1621804-BLK1)					<u>Prepared & Analyzed: 14-Dec-16</u>					
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Phenanthrene	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	34.8		µg/l		50.0		70	30-130		
Surrogate: 2-Fluorophenol	38.9		µg/l		50.0		78	15-110		
Surrogate: Nitrobenzene-d5	37.8		µg/l		50.0		76	30-130		
Surrogate: Phenol-d5	40.0		µg/l		50.0		80	15-110		
Surrogate: Terphenyl-dl4	36.2		µg/l		50.0		72	30-130		
Surrogate: 2,4,6-Tribromophenol	36.5		µg/l		50.0		73	15-110		
LCS (1621804-BS1)					<u>Prepared & Analyzed: 14-Dec-16</u>					
Acenaphthene	38.8		µg/l	5.00	50.0		78	40-140		
Acenaphthylene	37.2		µg/l	5.00	50.0		74	40-140		
Aniline	34.4		µg/l	5.00	50.0		69	40-140		
Anthracene	38.6		µg/l	5.00	50.0		77	40-140		
Azobenzene/Diphenyldiazene	39.3		µg/l	5.00	50.0		79	40-140		
Benzidine	45.0		µg/l	5.00	50.0		90	40-140		
Benzo (a) anthracene	42.1		µg/l	5.00	50.0		84	40-140		
Benzo (a) pyrene	43.1		µg/l	5.00	50.0		86	40-140		
Benzo (b) fluoranthene	44.5		µg/l	5.00	50.0		89	40-140		
Benzo (g,h,i) perylene	45.1		µg/l	5.00	50.0		90	40-140		
Benzo (k) fluoranthene	38.9		µg/l	5.00	50.0		78	40-140		
Benzoic acid	44.4		µg/l	5.00	50.0		89	30-130		
Benzyl alcohol	43.9		µg/l	5.00	50.0		88	40-140		
Bis(2-chloroethoxy)methane	41.6		µg/l	5.00	50.0		83	40-140		
Bis(2-chloroethyl)ether	37.2		µg/l	5.00	50.0		74	40-140		
Bis(2-chloroisopropyl)ether	38.8		µg/l	5.00	50.0		78	40-140		
Bis(2-ethylhexyl)phthalate	44.9		µg/l	5.00	50.0		90	40-140		
4-Bromophenyl phenyl ether	41.0		µg/l	5.00	50.0		82	40-140		
Butyl benzyl phthalate	43.9		µg/l	5.00	50.0		88	40-140		
Carbazole	48.2		µg/l	5.00	50.0		96	40-140		
4-Chloroaniline	45.9		µg/l	5.00	50.0		92	40-140		
2-Chloronaphthalene	46.6		µg/l	5.00	50.0		93	40-140		
4-Chlorophenyl phenyl ether	39.1		µg/l	5.00	50.0		78	40-140		
Chrysene	40.4		µg/l	5.00	50.0		81	40-140		
Dibenzo (a,h) anthracene	45.5		µg/l	5.00	50.0		91	40-140		
Dibenzofuran	46.7		µg/l	5.00	50.0		93	40-140		
1,2-Dichlorobenzene	44.7		µg/l	5.00	50.0		89	40-140		
1,3-Dichlorobenzene	48.2		µg/l	5.00	50.0		96	40-140		
1,4-Dichlorobenzene	47.8		µg/l	5.00	50.0		96	40-140		
3,3'-Dichlorobenzidine	54.4		µg/l	5.00	50.0		109	40-140		
Diethyl phthalate	38.6		µg/l	5.00	50.0		77	40-140		
Dimethyl phthalate	37.6		µg/l	5.00	50.0		75	40-140		
Di-n-butyl phthalate	40.1		µg/l	5.00	50.0		80	40-140		
2,4-Dinitrotoluene	53.0		µg/l	5.00	50.0		106	40-140		
2,6-Dinitrotoluene	52.4		µg/l	5.00	50.0		105	40-140		
Di-n-octyl phthalate	43.5		µg/l	5.00	50.0		87	40-140		
Fluoranthene	39.0		µg/l	5.00	50.0		78	40-140		

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621804 - SW846 3510C										
<u>LCS (1621804-BS1)</u>					<u>Prepared & Analyzed: 14-Dec-16</u>					
Fluorene	39.8		µg/l	5.00	50.0		80	40-140		
Hexachlorobenzene	50.7		µg/l	5.00	50.0		101	40-140		
Hexachlorobutadiene	49.2		µg/l	5.00	50.0		98	40-140		
Hexachlorocyclopentadiene	51.1		µg/l	5.00	50.0		102	40-140		
Hexachloroethane	44.8		µg/l	5.00	50.0		90	40-140		
Indeno (1,2,3-cd) pyrene	47.8		µg/l	5.00	50.0		96	40-140		
Isophorone	44.9		µg/l	5.00	50.0		90	40-140		
2-Methylnaphthalene	48.4		µg/l	5.00	50.0		97	40-140		
Naphthalene	39.5		µg/l	5.00	50.0		79	40-140		
2-Nitroaniline	46.8		µg/l	5.00	50.0		94	40-140		
3-Nitroaniline	54.9		µg/l	5.00	50.0		110	40-140		
4-Nitroaniline	48.5		µg/l	5.00	50.0		97	40-140		
Nitrobenzene	50.1		µg/l	5.00	50.0		100	40-140		
N-Nitrosodimethylamine	40.6		µg/l	5.00	50.0		81	40-140		
N-Nitrosodi-n-propylamine	40.0		µg/l	5.00	50.0		80	40-140		
N-Nitrosodiphenylamine	39.0		µg/l	5.00	50.0		78	40-140		
Phenanthrene	37.9		µg/l	5.00	50.0		76	40-140		
Pyrene	40.7		µg/l	5.00	50.0		81	40-140		
Pyridine	40.4		µg/l	5.00	50.0		81	40-140		
1-Methylnaphthalene	39.7		µg/l	5.00	50.0		79	40-140		
1,2,4-Trichlorobenzene	49.3		µg/l	5.00	50.0		99	40-140		
1,2,4,5-Tetrachlorobenzene	39.4		µg/l	5.00	50.0		79	40-140		
Surrogate: 2-Fluorobiphenyl	38.8		µg/l		50.0		78	30-130		
Surrogate: 2-Fluorophenol	42.0		µg/l		50.0		84	15-110		
Surrogate: Nitrobenzene-d5	43.9		µg/l		50.0		88	30-130		
Surrogate: Phenol-d5	40.3		µg/l		50.0		81	15-110		
Surrogate: Terphenyl-d14	41.1		µg/l		50.0		82	30-130		
Surrogate: 2,4,6-Tribromophenol	45.3		µg/l		50.0		91	15-110		
<u>LCS Dup (1621804-BSD1)</u>					<u>Prepared & Analyzed: 14-Dec-16</u>					
Acenaphthene	37.6		µg/l	5.00	50.0		75	40-140	3	20
Acenaphthylene	36.8		µg/l	5.00	50.0		74	40-140	1	20
Aniline	33.4		µg/l	5.00	50.0		67	40-140	3	20
Anthracene	37.5		µg/l	5.00	50.0		75	40-140	3	20
Azobenzene/Diphenyldiazene	41.0		µg/l	5.00	50.0		82	40-140	4	20
Benzidine	48.1		µg/l	5.00	50.0		96	40-140	7	20
Benzo (a) anthracene	41.7		µg/l	5.00	50.0		83	40-140	0.9	20
Benzo (a) pyrene	42.4		µg/l	5.00	50.0		85	40-140	2	20
Benzo (b) fluoranthene	42.1		µg/l	5.00	50.0		84	40-140	5	20
Benzo (g,h,i) perylene	44.4		µg/l	5.00	50.0		89	40-140	2	20
Benzo (k) fluoranthene	41.1		µg/l	5.00	50.0		82	40-140	6	20
Benzoic acid	44.4		µg/l	5.00	50.0		89	30-130	0.1	20
Benzyl alcohol	42.6		µg/l	5.00	50.0		85	40-140	3	20
Bis(2-chloroethoxy)methane	40.6		µg/l	5.00	50.0		81	40-140	3	20
Bis(2-chloroethyl)ether	36.6		µg/l	5.00	50.0		73	40-140	2	20
Bis(2-chloroisopropyl)ether	37.9		µg/l	5.00	50.0		76	40-140	2	20
Bis(2-ethylhexyl)phthalate	44.9		µg/l	5.00	50.0		90	40-140	0.04	20
4-Bromophenyl phenyl ether	40.6		µg/l	5.00	50.0		81	40-140	0.8	20
Butyl benzyl phthalate	43.0		µg/l	5.00	50.0		86	40-140	2	20
Carbazole	47.7		µg/l	5.00	50.0		95	40-140	1	20
4-Chloroaniline	44.8		µg/l	5.00	50.0		90	40-140	2	20
2-Chloronaphthalene	44.8		µg/l	5.00	50.0		90	40-140	4	20

This laboratory report is not valid without an authorized signature on the cover page.

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621804 - SW846 3510C										
<u>LCS Dup (1621804-BSD1)</u>					<u>Prepared & Analyzed: 14-Dec-16</u>					
4-Chlorophenyl phenyl ether	37.9		µg/l	5.00	50.0		76	40-140	3	20
Chrysene	40.1		µg/l	5.00	50.0		80	40-140	0.9	20
Dibenzo (a,h) anthracene	45.1		µg/l	5.00	50.0		90	40-140	0.9	20
Dibenzofuran	45.4		µg/l	5.00	50.0		91	40-140	3	20
1,2-Dichlorobenzene	43.4		µg/l	5.00	50.0		87	40-140	3	20
1,3-Dichlorobenzene	46.7		µg/l	5.00	50.0		93	40-140	3	20
1,4-Dichlorobenzene	46.0		µg/l	5.00	50.0		92	40-140	4	20
3,3'-Dichlorobenzidine	53.2		µg/l	5.00	50.0		106	40-140	2	20
Diethyl phthalate	37.0		µg/l	5.00	50.0		74	40-140	4	20
Dimethyl phthalate	36.6		µg/l	5.00	50.0		73	40-140	3	20
Di-n-butyl phthalate	39.0		µg/l	5.00	50.0		78	40-140	3	20
2,4-Dinitrotoluene	52.3		µg/l	5.00	50.0		105	40-140	1	20
2,6-Dinitrotoluene	50.7		µg/l	5.00	50.0		101	40-140	3	20
Di-n-octyl phthalate	42.6		µg/l	5.00	50.0		85	40-140	2	20
Fluoranthene	37.7		µg/l	5.00	50.0		75	40-140	3	20
Fluorene	38.5		µg/l	5.00	50.0		77	40-140	3	20
Hexachlorobenzene	49.2		µg/l	5.00	50.0		98	40-140	3	20
Hexachlorobutadiene	47.1		µg/l	5.00	50.0		94	40-140	4	20
Hexachlorocyclopentadiene	50.5		µg/l	5.00	50.0		101	40-140	1	20
Hexachloroethane	44.3		µg/l	5.00	50.0		89	40-140	1	20
Indeno (1,2,3-cd) pyrene	47.1		µg/l	5.00	50.0		94	40-140	1	20
Isophorone	43.8		µg/l	5.00	50.0		88	40-140	2	20
2-Methylnaphthalene	46.6		µg/l	5.00	50.0		93	40-140	4	20
Naphthalene	38.2		µg/l	5.00	50.0		76	40-140	3	20
2-Nitroaniline	47.0		µg/l	5.00	50.0		94	40-140	0.6	20
3-Nitroaniline	53.8		µg/l	5.00	50.0		108	40-140	2	20
4-Nitroaniline	43.4		µg/l	5.00	50.0		87	40-140	11	20
Nitrobenzene	48.9		µg/l	5.00	50.0		98	40-140	3	20
N-Nitrosodimethylamine	39.6		µg/l	5.00	50.0		79	40-140	2	20
N-Nitrosodi-n-propylamine	39.7		µg/l	5.00	50.0		79	40-140	0.8	20
N-Nitrosodiphenylamine	38.3		µg/l	5.00	50.0		77	40-140	2	20
Phenanthrene	37.6		µg/l	5.00	50.0		75	40-140	0.6	20
Pyrene	40.4		µg/l	5.00	50.0		81	40-140	0.6	20
Pyridine	39.6		µg/l	5.00	50.0		79	40-140	2	20
1,2,4-Trichlorobenzene	48.0		µg/l	5.00	50.0		96	40-140	3	20
1-Methylnaphthalene	38.6		µg/l	5.00	50.0		77	40-140	3	20
1,2,4,5-Tetrachlorobenzene	38.7		µg/l	5.00	50.0		77	40-140	2	20
Surrogate: 2-Fluorophenol	40.8		µg/l		50.0		82	15-110		
Surrogate: 2-Fluorobiphenyl	38.5		µg/l		50.0		77	30-130		
Surrogate: Nitrobenzene-d5	41.8		µg/l		50.0		84	30-130		
Surrogate: Phenol-d5	39.6		µg/l		50.0		79	15-110		
Surrogate: Terphenyl-dl4	40.2		µg/l		50.0		80	30-130		
Surrogate: 2,4,6-Tribromophenol	45.4		µg/l		50.0		91	15-110		

This laboratory report is not valid without an authorized signature on the cover page.

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621871 - SW846 3005A										
<u>Blank (1621871-BLK1)</u>					<u>Prepared: 16-Dec-16 Analyzed: 19-Dec-16</u>					
Lead	< 0.0075	U	mg/l	0.0075						
Silver	< 0.0050	U	mg/l	0.0050						
Arsenic	< 0.0040	U	mg/l	0.0040						
Chromium	< 0.0050	U	mg/l	0.0050						
Barium	< 0.0050	U	mg/l	0.0050						
Selenium	< 0.0150	U	mg/l	0.0150						
Cadmium	< 0.0025	U	mg/l	0.0025						
<u>LCS (1621871-BS1)</u>					<u>Prepared: 16-Dec-16 Analyzed: 19-Dec-16</u>					
Cadmium	1.22		mg/l	0.0025	1.25		97	85-115		
Selenium	1.28		mg/l	0.0150	1.25		102	85-115		
Barium	1.30		mg/l	0.0050	1.25		104	85-115		
Chromium	1.27		mg/l	0.0050	1.25		101	85-115		
Arsenic	1.16		mg/l	0.0040	1.25		93	85-115		
Silver	1.15		mg/l	0.0050	1.25		92	85-115		
Lead	1.24		mg/l	0.0075	1.25		99	85-115		
<u>LCS Dup (1621871-BSD1)</u>					<u>Prepared: 16-Dec-16 Analyzed: 20-Dec-16</u>					
Selenium	1.25		mg/l	0.0150	1.25		100	85-115	2	20
Silver	1.18		mg/l	0.0050	1.25		95	85-115	3	20
Arsenic	1.19		mg/l	0.0040	1.25		95	85-115	2	20
Cadmium	1.24		mg/l	0.0025	1.25		99	85-115	2	20
Chromium	1.27		mg/l	0.0050	1.25		101	85-115	0.2	20
Lead	1.27		mg/l	0.0075	1.25		101	85-115	2	20
Barium	1.29		mg/l	0.0050	1.25		103	85-115	0.9	20

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1621873 - EPA200/SW7000 Series										
<u>Blank (1621873-BLK1)</u>										<u>Prepared: 16-Dec-16 Analyzed: 20-Dec-16</u>
Mercury	< 0.00020	U	mg/l	0.00020						
<u>LCS (1621873-BS1)</u>										<u>Prepared: 16-Dec-16 Analyzed: 20-Dec-16</u>
Mercury	0.00516		mg/l	0.00020	0.00500		103	85-115		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To:

AEC
6308 Fly Road
East Syracuse, NY 13057

Invoice To:

AEC
Acids/Pigate

Project No:

16-319

Site Name:

1712 Ene St.

Telephone #:

(315) 432-9400

Project Mgr:

Rick McKenna + James Sackin

P.O. No.:

16-319

Quote #:

Location:
Sample(s):

Utica
Drex Brantner

State: NY

I=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= 12=

List Preservative Code below:

2 - 4

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1=

X2=

X3=

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

Containers

Analysis

Check if chlorinated

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
Other: _____
State-specific reporting standards: _____

SC294561
TW-1
TW-2
TW-3
TW-4
TW-5
Top Blank

12/8/16
12/8/16
11/15
1/30/17
1/30/17
1/30/17
1/30/17

12/8/16
12/8/16
11/15
1/30/17
1/30/17
1/30/17
1/30/17

8260 (FIELD VOCs)
8260 B/N SWCS
PCRA & Metals

X
X
X
X
X
X
X

X
X
X
X
X
X
X

X
X
X
X
X
X
X

Relinquished by:

Received by:

Date:

Time:

Temp °C

Observed
Correction Factor

PDF and Excel
Cmckona@acscorp.com
dbrantner@acscorp.com

Beau Brantner
Cynthia Brantner

Cynthia Brantner
Jen

12/8/16
12/13/16
11/15

3.2
0

Condition upon receipt:

Custody Seals: ☒ Present ☒ Intact ☐ Broken

Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

7.610 17.61R 3

12/7/16

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev. Sep 2015

ORIGIN ID: SYRA (315) 214-5777
CRYSTAL SMITH
EUROFINS SPECTRUM ANALYTICAL
6437 COLLAMER RD
EAST SYRACUSE, NY 13057
UNITED STATES US

SHIP DATE: 12DEC16
ACTWTG: 42.00 LB
CAD: 108657847/NET3790
DIMS: 17x13x20 IN
BILL SENDER

TO **SAMPLE RECEIVING**
EUROFINS SPECTRUM ANALYTICAL
11 ALMGREN DRIVE

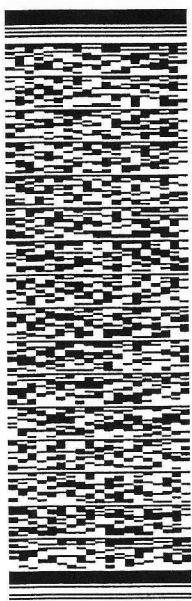
AGAWAM MA 01001

(413) 789-9018 X 118

REF: SAMPLE SHIPMENT 12/13

INV.

DEPT.



J162016101201uv

544J11D42F14E8

2 of 2

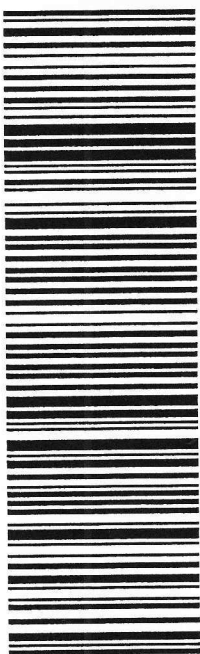
MPS# **7779 2930 9514**
[0263]
Mstr# 7779 2930 9043

[0201]

TUE - 13 DEC 10:30A
PRIORITY OVERNIGHT

EB EHTA

01001
MA-US BDL



12/13/14

After printing this label:

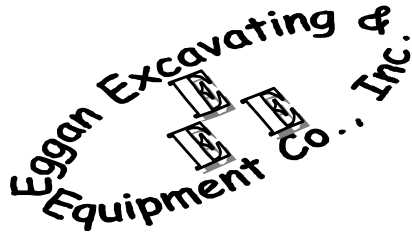
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ATTACHMENT D

EGGAN EXCAVATING & EQUIPMENT CO., INC. UST AND SPILL CLEANUP REPORT



EGGAN EXCAVATING & EQUIPMENT CO., INC

7439 Townline Road
Rome, New York 13440

(315) 339-1847

Fax number: (315) 339-3455

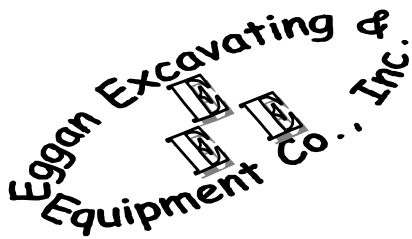
SPILL CLEAN UP REPORT FORMER MELE MANUFACTURING

D.E.C. SPILL # 13-04120

PBS # 6-262684

1712 ERIE STREET, UTICA, NY

JULY 2014



EGGAN EXCAVATING & EQUIPMENT CO., INC

7439 Townline Road
Rome, New York 13440
(315) 339-1847

Mr. Mark Tibbe
New York State Department of
Environmental Conservation
207 Genesee Street
Utica, New York 13501

October 31, 2014

Regarding: Former Mele Mfg.
Spill # 13-04120
1712 Erie Street
Utica, New York

Dear Mr. Tibbe:

Introduction:

A search of the NYS DEC Spill Incidents Database resulted in five spill numbers at the referenced facility. Spill # 13-04120 occurred 7/17/13 and has not been administratively closed. The material spilled is listed as "6 Fuel Oil". Copies of the Spill Records are included in the Appendix.

The Petroleum Bulk Storage (PBS) number of the referenced facility is 6-262684. Two tanks are listed. A copy of the PBS record is included in the Appendix.

Eggan Excavating was retained to remove the 20,000 gallon #6 Fuel Oil UST, piping and any associated contaminated soil.

A daily synopsis of clean up activities is included in Appendix A.

Geology

The site surficial geology is a thin mantle of lacustrine silt and clay over till. The till overlies Utica Shale bedrock. The site is located between Burrstone Hill and the Mohawk River Valley. Till is exposed on top of Burrstone Hill and the north flank is kame sand and gravel.

The topographic elevation of the site is between 420 and 440 feet above sea level based upon the USGS 7.5 min. topographic map. The site is within approximately 1,000 feet south of the Mohawk River Valley on the opposite side of the railroad mainline. The Mohawk River is approximately 398 feet above sea level and flows eastward. The surface gradient of the site slopes northward toward the Mohawk River Valley.

The enclosed location map (Figure 1) is a copy of the 7.5 min. USGS quadrangle and illustrates the topography of the vicinity.

Daily Activities

- 1) One 20,000 gallon UST was removed, cut, cleaned and removed from the site for proper disposal.
- 2) The associated petroleum piping was also removed.
- 3) The associated contaminated soils were excavated and removed. The excavation was backfilled to original grade and properly compacted.

Summary

- 1) The enclosed Site Sketch (Figure 3) shows areas where contaminated soils were excavated in bold red. The removed UST and piping are shown in orange.
- 2) A total of 299.12 tons of petroleum contaminated soil were excavated between July 7, 2014 and July 11, 2014. The contaminated soil was disposed of properly at the OHSWA facility in Ava, New York. Disposal receipts are enclosed in Appendix C.
- 3) A total of 13 drums of tank bottoms were generated and disposed of properly at Industrial Oil in Oriskany, New York.
- 4) Vacuum trucks were used to transport 9,500 gallons of a mixture of #6 Fuel Oil, #2 Fuel Oil and water to Industrial Oil.
- 5) The excavation and surrounding area have been restored to a stable surface condition. The backfill has been properly compacted.

Conclusions

- 1) Laboratory analysis did not detect significant contamination in any of the final excavation samples.
- 2) The contaminated soil has been completely removed.

Recommendations


- 1) The spill should be administratively closed.

Certification

The data collected is representative of actual site conditions, and the observations and interpretations presented are true and accurate.

Please let me know if you have any questions.

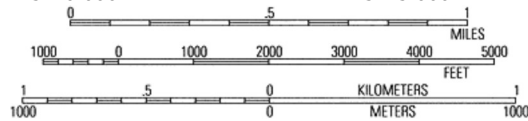
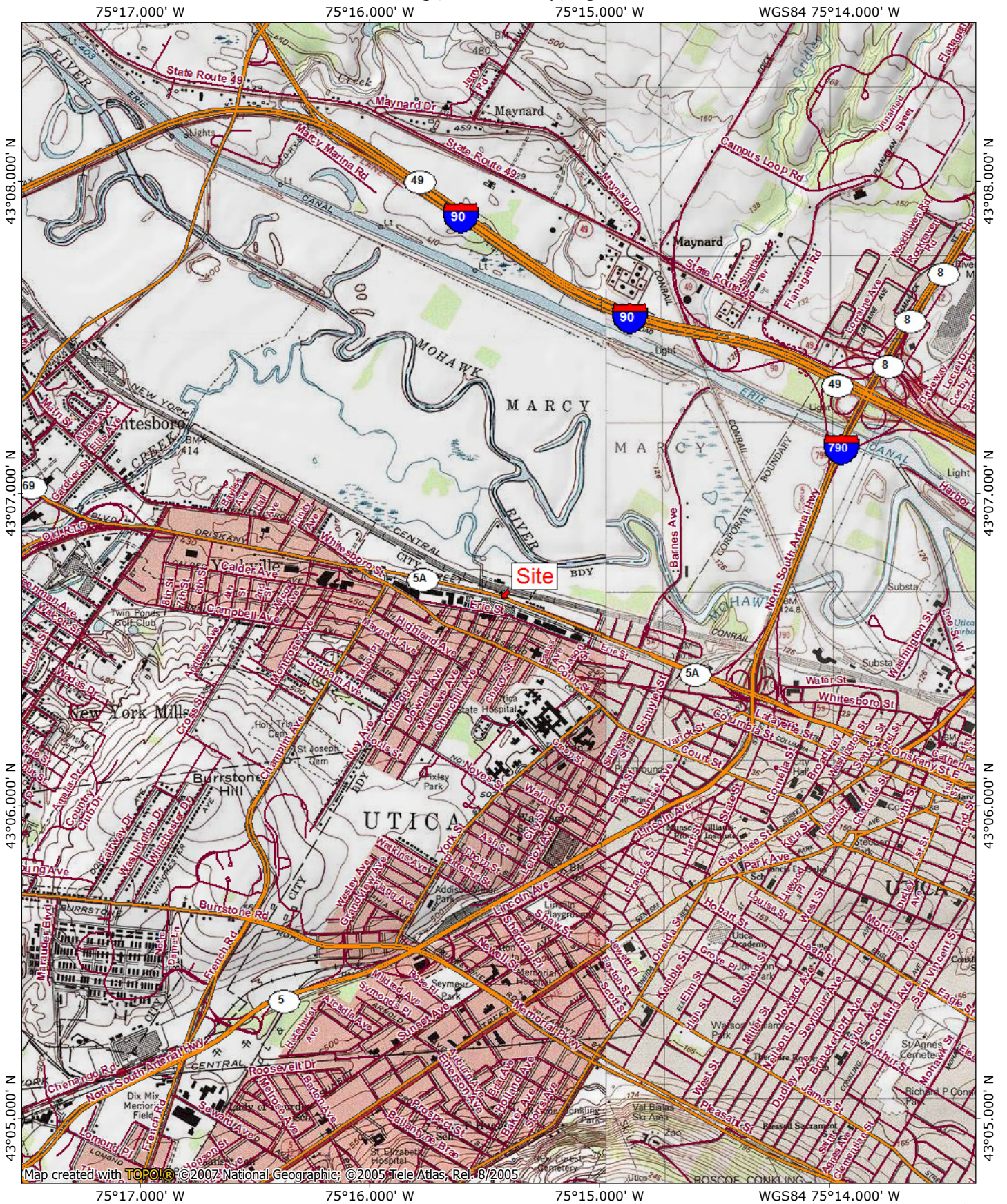
Sincerely,



Thomas Giles, P.G.

Enclosures: Figure 1 - Location Map
Figure 2 - Aerial Photograph
Figure 3 - Site Sketch
Table 1 - Summary of Analytical Results
Table 2 - Disposal Summary
Appendix A - Daily Activity Synopsis
Appendix B - Photograph Log and Photographs
Appendix C - Laboratory Analysis
Appendix D - Tipping Receipts
Appendix E - Spills Database / PBS Database

Mele Mfg., Location Map, Figure 1



MN TN
13°
07/29/14



Aerial Image, Figure 2

*E*ggan
*E*xccavating &
*E*quipment Co.,Inc.

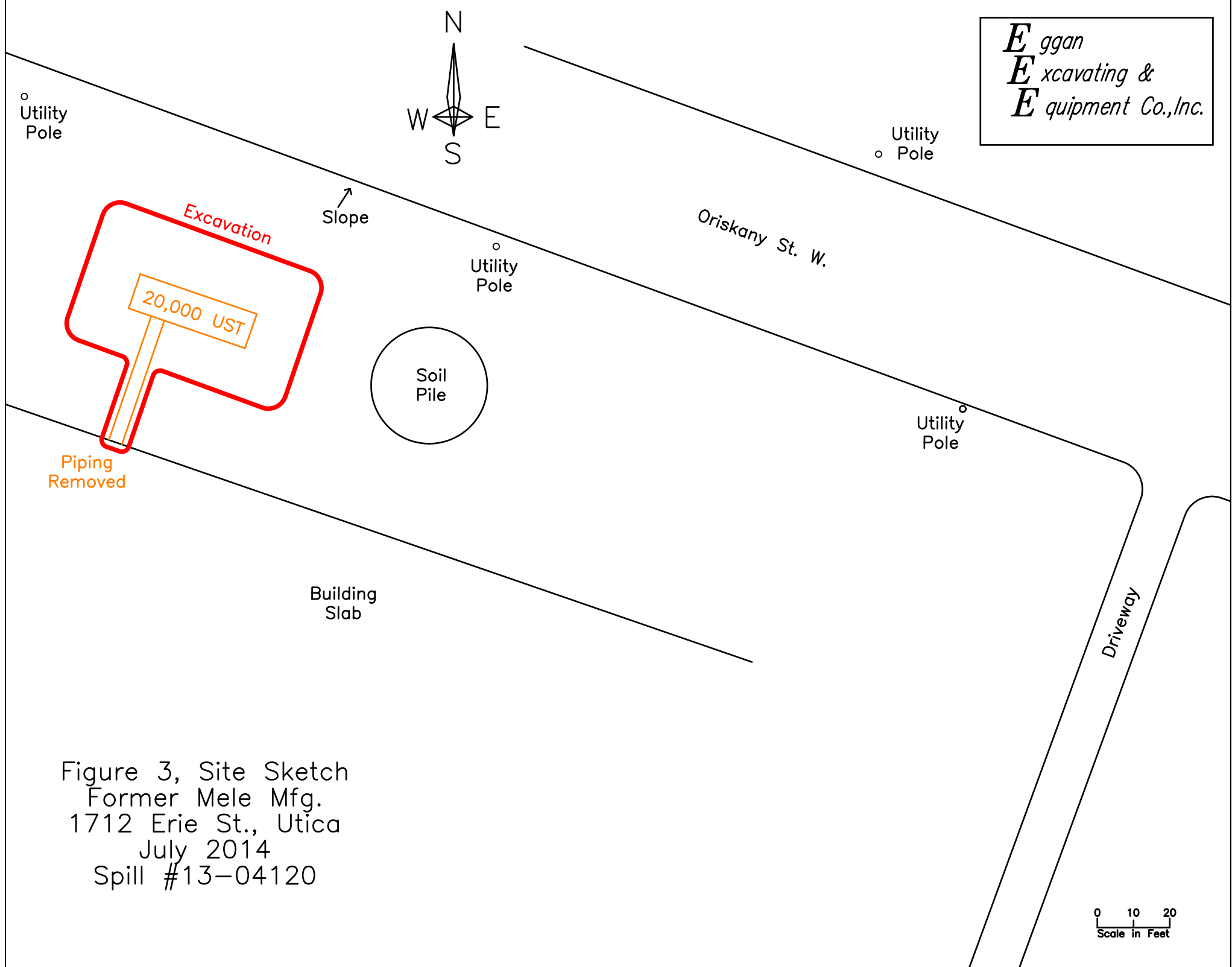


Figure 3, Site Sketch
Former Mele Mfg.
1712 Erie St., Utica
July 2014
Spill #13-04120

0 10 20
Scale in Feet

Summary of Analytical Results

July 2014

	Date	Quantity	Units	Description	Destination
	07/07/14	3,500	Gallons	Water and #6 Fuel Oil	Industrial Oil
	07/09/14	2,900	Gallons	Water and #6 Fuel Oil	Industrial Oil
	07/10/14	1,300	Gallons	Water and #6 Fuel Oil	Industrial Oil
	07/11/14	1,800	Gallons	Water and #6 Fuel Oil	Industrial Oil
	Total	9,500	Gallons		
	07/11/14	100	Gallons	Excavation Grit	Rome STP
	07/10/14	13	Drums	Water and #6 Fuel Oil	Industrial Oil
2032976	07/28/14	21.04	Tons	Contaminated Soil	OHSWA, Ava
2032978	07/28/14	21.27	Tons	Contaminated Soil	OHSWA, Ava
2032984	07/28/14	12.46	Tons	Contaminated Soil	OHSWA, Ava
2033088	07/28/14	22.08	Tons	Contaminated Soil	OHSWA, Ava
2033104	07/28/14	22.01	Tons	Contaminated Soil	OHSWA, Ava
2033108	07/28/14	13.40	Tons	Contaminated Soil	OHSWA, Ava
2033222	07/28/14	14.44	Tons	Contaminated Soil	OHSWA, Ava
2033237	07/28/14	23.38	Tons	Contaminated Soil	OHSWA, Ava
Subtotal	07/28/14	150.08	Tons		
2033413	07/29/14	22.88	Tons	Contaminated Soil	OHSWA, Ava
2033470	07/29/14	14.01	Tons	Contaminated Soil	OHSWA, Ava
2033512	07/29/14	21.71	Tons	Contaminated Soil	OHSWA, Ava
2033560	07/29/14	14.50	Tons	Contaminated Soil	OHSWA, Ava
2033614	07/29/14	21.80	Tons	Contaminated Soil	OHSWA, Ava
2033657	07/29/14	14.13	Tons	Contaminated Soil	OHSWA, Ava
2033738	07/29/14	23.19	Tons	Contaminated Soil	OHSWA, Ava
2033777	07/29/14	16.82	Tons	Contaminated Soil	OHSWA, Ava
Subtotal	07/29/14	149.04	Tons		
Grand	Total	299.12			

Appendix A

DAILY ACTIVITY SYNOPSIS

JUNE 13, 2014

Eggan Excavating personnel responded to the site to measure the contents of the UST and plan the clean up. Measurements indicated 39" of total liquid equaling approximately 5,630 gallons. The liquid observed was #6 fuel oil and water.

JULY 3, 2014

Soils above the UST were removed with a hydraulic excavator exposing the manway. The manway was opened, and a heating coil was encountered. The petroleum piping was uncovered from the UST to the old building foundation. At the end of the day the work area was marked with caution tape to deter inadvertent access.

JULY 7, 2014

A staging area was established and lined with sheet plastic. The heating coil was removed and staged on the sheet plastic. The #6 fuel oil was diluted with 600 gallons of #2 fuel oil. A Crust Buster agitator was used to mix the heavy and light petroleum and produce a uniform viscosity. When the viscosity was sufficiently reduced the petroleum and water mixture was removed with vacuum trucks and hauled from the site for proper disposal. Soils adjacent to the UST were removed with a hydraulic excavator. The soils encountered were monitored continuously with a hand held PID meter to ascertain the presence or absence of petroleum contamination. The instrument used was a MiniRae Lite PGM 7300 equipped with a 10.6 eV lamp. Soils to be tested were placed inside plastic bags with re-sealable tops. After gently breaking up the soil in each bagged sample the PID meter was used to draw vapor from the headspace of each plastic bag. The soils encountered exhibited evidence of petroleum contamination by odor and black color. Elevated PID meter readings were not observed in soils otherwise indicating obvious contamination. Sheen testing was used effectively to differentiate clean from contaminated soils. A soil staging area was established and lined with sheet plastic. Contaminated soils were transported to the staging area with the hydraulic excavator. Clean overburden soils were piled separately.

The soils encountered consisted of:

0' – 6"	Blacktop, concrete and crushed stone pavement
6" – 9'	Brown silty clay loam and undifferentiated fill
9' – 10'	Compacted dark gray clay till

Groundwater was encountered at approximately six feet deep.

At the end of the day the soil staging area was covered with sheet plastic securely weighted with tires.

JULY 9, 2014

The remaining liquids in the UST were removed with a vacuum truck. The UST was removed from the ground and staged on sheet plastic. The atmosphere inside the UST was rendered inert using forced ventilation, as tested with a four gas (Combustible Gas Indicator) CGI. No holes were found in the UST. Non sparking tools were used to cut an access hole in the end of

the UST. The #6 fuel oil residue was cleaned from the UST with #2 fuel oil. Thirteen drums of residual liquids and cleaning supplies were generated. The UST and scrap metal were removed from the site for recycling. The sidewalls were sloped for stability. At the end of the day the staged contaminated soil was covered with sheet plastic securely weighted with tires. The site was surrounded with temporary fence to deter unauthorized access.

JULY 10, 2014

A thin layer of #6 fuel oil was observed floating on top of the approximately two feet of water that had accumulated in the excavation overnight. The 1,300 gallons of liquids were recovered with a vacuum truck. Excavation of the contaminated soil continued in the same manner as on the previous day. Sheen testing continued to be used effectively to differentiate clean from contaminated soils. The process of cutting the UST into pieces was completed, and the remaining scrap metal was hauled for recycling. The moisture content of the excavated soil was very high, and oil absorbent boom was placed around the staging area as a precaution. Excavation water was collected with a vacuum truck as needed. The site was secured as at the end of previous days.

JULY 11, 2014

A thin layer of #6 fuel oil was observed floating on top of the approximately two feet of water that had accumulated in the excavation overnight. The 1,800 gallons of liquids were recovered with a vacuum truck. Excavation of the contaminated soil continued in the same manner as on the previous day. Sheen testing continued to be used effectively to differentiate clean from contaminated soils. Excavation proceeded until contaminated soils were completely removed. The sampling protocol was discussed with Mark Tibbe of the DEC during excavation and contaminated soil removal. The decision was made to have soil samples tested for volatile organic compounds (VOC's) using method EPA 8260, by a certified analytical laboratory. The purpose of the sampling and analysis procedure is to document the identity and concentration of contamination in the final excavation soils. Soil samples were transported in a cooler with ice to a refrigerator colder than 40°F. The custody of the samples was transferred to Testamerica Laboratories, Inc. of Amherst, New York (TALI) using proper chain of custody paperwork. TALI then transported the samples to their laboratory and performed the required analyses. The excavation was backfilled with clean sand from offsite. The backfill was raked smooth and properly compacted. 1,800 gallons, backfill, rake and pound, The staged contaminated soil was covered with sheet plastic securely weighted with tires connected by ropes.

JULY 28, 2014

Dump trucks were lined with sheet plastic and loaded with previously staged contaminated soils. The contaminated soil was hauled from the site for proper disposal at the OHSWA facility in Ava, New York.

JULY 29, 2014

The process of loading and hauling the contaminated soil was completed. A grand total of 299.12 tons of contaminated soil were disposed of properly at the OHSWA landfill in Ava.

Appendix B

PHOTOGRAPH LOG
PHOTOGRAPHS

PHOTOGRAPH LOG

- 1) The 20,000 gallon UST is shown in place in this view.
- 2) This image shows residual #6 fuel oil inside the 20,000 gallon UST.
- 3) The 20,000 gallon UST was properly cut and cleaned as shown here.
- 4) Groundwater and free product were removed from the excavation with a vacuum truck as shown here.
- 5) The view shown here is typical of daily excavation activities. Excavation is proceeding from west to east. The contaminated soil in the distance remains to be excavated. The clean excavation on the left is being concurrently backfilled.
- 6) After clean up was complete the excavation was backfilled with sand and compacted as shown.

(1)



(2)



(3)



(4)



(5)



(6)



Appendix C

LABORATORY RESULTS

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-63611-1

Client Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

For:

New York State D.E.C.

207 Genesee Street

Utica, New York 13501

Attn: Mr. Mark Tibbe



Authorized for release by:

7/18/2014 11:57:15 AM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Ask
The
Expert

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
7/18/2014 11:57:15 AM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Lab Chronicle	7
Certification Summary	8
Method Summary	9
Sample Summary	10
Receipt Checklists	11
Chain of Custody	13



Definitions/Glossary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63611-1

Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: New York State D.E.C.
Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

TestAmerica Job ID: 480-63611-1

Job ID: 480-63611-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-63611-1

Receipt

The sample was received on 7/11/2014 12:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch # 111577.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

TestAmerica Job ID: 480-63611-1

Client Sample ID: Soil Pile

Lab Sample ID: 480-63611-1

Date Collected: 07/09/14 14:00

Matrix: Solid

Date Received: 07/11/14 00:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.050	0.0012	mg/L		07/16/14 07:36	07/17/14 18:15	1
2,4,5-Trichlorophenol	ND		0.050	0.0013	mg/L		07/16/14 07:36	07/17/14 18:15	1
2,4,6-Trichlorophenol	ND		0.050	0.0011	mg/L		07/16/14 07:36	07/17/14 18:15	1
2,4-Dinitrotoluene	ND		0.050	0.0010	mg/L		07/16/14 07:36	07/17/14 18:15	1
2-Methylphenol	ND		0.050	0.0014	mg/L		07/16/14 07:36	07/17/14 18:15	1
Methylphenol, 3 & 4	ND		0.050	0.0027	mg/L		07/16/14 07:36	07/17/14 18:15	1
Hexachlorobenzene	ND		0.050	0.0011	mg/L		07/16/14 07:36	07/17/14 18:15	1
Hexachlorobutadiene	ND		0.050	0.0013	mg/L		07/16/14 07:36	07/17/14 18:15	1
Hexachloroethane	ND		0.050	0.0013	mg/L		07/16/14 07:36	07/17/14 18:15	1
Nitrobenzene	ND		0.050	0.0013	mg/L		07/16/14 07:36	07/17/14 18:15	1
Pentachlorophenol	ND		0.25	0.0022	mg/L		07/16/14 07:36	07/17/14 18:15	1
Pyridine	ND		0.10	0.00083	mg/L		07/16/14 07:36	07/17/14 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		35 - 115	07/16/14 07:36	07/17/14 18:15	1
2-Fluorophenol (Surr)	66		20 - 110	07/16/14 07:36	07/17/14 18:15	1
2,4,6-Tribromophenol (Surr)	72		19 - 138	07/16/14 07:36	07/17/14 18:15	1
Nitrobenzene-d5 (Surr)	71		39 - 115	07/16/14 07:36	07/17/14 18:15	1
Phenol-d5 (Surr)	73		30 - 118	07/16/14 07:36	07/17/14 18:15	1
Terphenyl-d14 (Surr)	74		30 - 143	07/16/14 07:36	07/17/14 18:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	CNF				NONE			07/16/14 06:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ignitability	>140		1.00	1.00	Degrees F			07/15/14 09:59	1

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

TestAmerica Job ID: 480-63611-1

Client Sample ID: Soil Pile

Date Collected: 07/09/14 14:00

Date Received: 07/11/14 00:00

Lab Sample ID: 480-63611-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			111408	07/14/14 17:14	SWP	TAL PIT
TCLP	Prep	3510C			111577	07/16/14 07:36	JPM	TAL PIT
TCLP	Analysis	8270D		1	111760	07/17/14 18:15	VVP	TAL PIT
Total/NA	Analysis	1020B		1	111474	07/15/14 09:59	MEB	TAL PIT
Total/NA	Analysis	9095B		1	111563	07/16/14 06:30	CLL	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: New York State D.E.C.
Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

TestAmerica Job ID: 480-63611-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-15

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

Method Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63611-1

Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
1020B	Ignitability, Small Scale Closed-Cup Method	SW846	TAL PIT
9095B	Paint Filter	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63611-1

Project/Site: Ex. Site-Former Mele #1304120 PIN 06146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-63611-1	Soil Pile	Solid	07/09/14 14:00	07/11/14 00:00

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-63611-1

Login Number: 63611

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	eggan
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-63611-1

Login Number: 63611

List Number: 2

Creator: Lonzo, Michael A

List Source: TestAmerica Pittsburgh

List Creation: 07/12/14 04:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CHAIN OF CUSTODY RECORD

and Authorization for Analysis

12

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-63724-1

Client Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

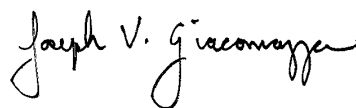
For:

New York State D.E.C.

207 Genesee Street

Utica, New York 13501

Attn: Mr. Mark Tibbe



Authorized for release by:

7/25/2014 1:15:15 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

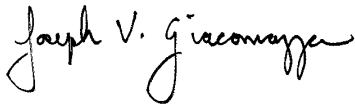
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
7/25/2014 1:15:15 PM



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Lab Chronicle	11
Certification Summary	13
Method Summary	14
Sample Summary	15
Receipt Checklists	16
Chain of Custody	18

Definitions/Glossary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63724-1

Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Job ID: 480-63724-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-63724-1

Receipt

The samples were received on 7/15/2014 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 192832 contained Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: Reported analyte concentrations in the following sample(s) are below 200ug/kg and may be biased low due to the sample(s) not being collected according to 5035-L/5035A-L low-level specifications: Bottom (480-63724-4), East (480-63724-5), North (480-63724-2), South (480-63724-3), West (480-63724-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: West

Lab Sample ID: 480-63724-1

Date Collected: 07/09/14 15:00

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 81.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		6.0	1.2	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
1,3,5-Trimethylbenzene	ND		6.0	0.39	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
4-Isopropyltoluene	ND		6.0	0.48	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Benzene	ND		6.0	0.30	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Ethylbenzene	ND		6.0	0.42	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Isopropylbenzene	ND		6.0	0.91	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Methyl-t-Butyl Ether (MTBE)	ND		6.0	0.59	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Naphthalene	ND		6.0	0.81	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
n-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
N-Propylbenzene	ND		6.0	0.48	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
o-Xylene	ND		6.0	0.79	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
sec-Butylbenzene	ND		6.0	0.52	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Toluene	ND		6.0	0.46	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
tert-Butylbenzene	ND		6.0	0.63	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1
tert-Butyl alcohol (TBA)	ND		60	20	ug/Kg	☼	07/15/14 13:49	07/15/14 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	07/15/14 13:49	07/15/14 16:20	1
4-Bromofluorobenzene (Surr)	107		72 - 126	07/15/14 13:49	07/15/14 16:20	1
Toluene-d8 (Surr)	107		71 - 125	07/15/14 13:49	07/15/14 16:20	1
Dibromofluoromethane (Surr)	117		60 - 140	07/15/14 13:49	07/15/14 16:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		82	7.8	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Acenaphthylene	ND		82	9.3	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Anthracene	ND		82	7.9	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Benzo[a]anthracene	ND		82	10	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Benzo[a]pyrene	ND		82	8.1	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Benzo[b]fluoranthene	ND		82	13	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Benzo[g,h,i]perylene	ND		82	8.1	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Benzo[k]fluoranthene	ND		82	16	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Chrysene	ND		82	9.7	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Dibenz(a,h)anthracene	ND		82	9.0	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Fluoranthene	ND		82	8.7	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Fluorene	ND		82	11	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Indeno[1,2,3-cd]pyrene	ND		82	8.4	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Naphthalene	ND		82	7.0	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Phenanthrene	ND		82	13	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1
Pyrene	ND		82	8.2	ug/Kg	☼	07/18/14 03:10	07/22/14 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		25 - 104	07/18/14 03:10	07/22/14 14:50	1
Terphenyl-d14 (Surr)	66		25 - 127	07/18/14 03:10	07/22/14 14:50	1
Phenol-d5 (Surr)	75		25 - 105	07/18/14 03:10	07/22/14 14:50	1
2-Fluorophenol (Surr)	75		39 - 103	07/18/14 03:10	07/22/14 14:50	1
2,4,6-Tribromophenol (Surr)	68		35 - 124	07/18/14 03:10	07/22/14 14:50	1
2-Fluorobiphenyl	69		35 - 105	07/18/14 03:10	07/22/14 14:50	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: North

Lab Sample ID: 480-63724-2

Date Collected: 07/10/14 14:00

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		6.1	1.2	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
1,3,5-Trimethylbenzene	ND		6.1	0.39	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
4-Isopropyltoluene	ND		6.1	0.49	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Benzene	ND		6.1	0.30	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Ethylbenzene	ND		6.1	0.42	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Isopropylbenzene	ND		6.1	0.92	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Methyl-t-Butyl Ether (MTBE)	ND		6.1	0.60	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
m-Xylene & p-Xylene	ND		12	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Naphthalene	ND		6.1	0.82	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
n-Butylbenzene	ND		6.1	0.53	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
N-Propylbenzene	ND		6.1	0.49	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
o-Xylene	ND		6.1	0.80	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
sec-Butylbenzene	ND		6.1	0.53	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Toluene	ND		6.1	0.46	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
Xylenes, Total	ND		12	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
tert-Butylbenzene	ND		6.1	0.64	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1
tert-Butyl alcohol (TBA)	ND		61	21	ug/Kg	☼	07/15/14 13:49	07/15/14 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	07/15/14 13:49	07/15/14 16:46	1
4-Bromofluorobenzene (Surr)	104		72 - 126	07/15/14 13:49	07/15/14 16:46	1
Toluene-d8 (Surr)	104		71 - 125	07/15/14 13:49	07/15/14 16:46	1
Dibromofluoromethane (Surr)	115		60 - 140	07/15/14 13:49	07/15/14 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		82	7.9	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Acenaphthylene	ND		82	9.4	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Anthracene	ND		82	8.0	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Benzo[a]anthracene	ND		82	10	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Benzo[a]pyrene	ND		82	8.2	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Benzo[b]fluoranthene	ND		82	13	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Benzo[g,h,i]perylene	ND		82	8.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Benzo[k]fluoranthene	ND		82	17	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Chrysene	ND		82	9.8	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Dibenz(a,h)anthracene	ND		82	9.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Fluoranthene	ND		82	8.8	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Fluorene	ND		82	11	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Indeno[1,2,3-cd]pyrene	ND		82	8.4	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Naphthalene	ND		82	7.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Phenanthrene	ND		82	13	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1
Pyrene	ND		82	8.3	ug/Kg	☼	07/18/14 03:10	07/22/14 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		25 - 104	07/18/14 03:10	07/22/14 15:19	1
Terphenyl-d14 (Surr)	58		25 - 127	07/18/14 03:10	07/22/14 15:19	1
Phenol-d5 (Surr)	74		25 - 105	07/18/14 03:10	07/22/14 15:19	1
2-Fluorophenol (Surr)	73		39 - 103	07/18/14 03:10	07/22/14 15:19	1
2,4,6-Tribromophenol (Surr)	57		35 - 124	07/18/14 03:10	07/22/14 15:19	1
2-Fluorobiphenyl	63		35 - 105	07/18/14 03:10	07/22/14 15:19	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: South

Lab Sample ID: 480-63724-3

Date Collected: 07/10/14 14:30

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 92.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
4-Isopropyltoluene	ND		5.3	0.43	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Benzene	ND		5.3	0.26	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Isopropylbenzene	ND		5.3	0.81	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Methyl-t-Butyl Ether (MTBE)	ND		5.3	0.52	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
m-Xylene & p-Xylene	ND		11	0.90	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Naphthalene	ND		5.3	0.72	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
n-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
N-Propylbenzene	ND		5.3	0.43	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
o-Xylene	ND		5.3	0.70	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Toluene	ND		5.3	0.40	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
tert-Butylbenzene	ND		5.3	0.56	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1
tert-Butyl alcohol (TBA)	ND		53	18	ug/Kg	☼	07/15/14 13:49	07/15/14 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	07/15/14 13:49	07/15/14 17:12	1
4-Bromofluorobenzene (Surr)	94		72 - 126	07/15/14 13:49	07/15/14 17:12	1
Toluene-d8 (Surr)	97		71 - 125	07/15/14 13:49	07/15/14 17:12	1
Dibromofluoromethane (Surr)	107		60 - 140	07/15/14 13:49	07/15/14 17:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	6.8	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Acenaphthylene	ND		71	8.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Anthracene	ND		71	7.0	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Benzo[a]anthracene	ND		71	8.9	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Benzo[a]pyrene	ND		71	7.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Benzo[b]fluoranthene	ND		71	11	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Benzo[g,h,i]perylene	ND		71	7.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Benzo[k]fluoranthene	ND		71	14	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Chrysene	ND		71	8.5	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Dibenz(a,h)anthracene	ND		71	7.9	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Fluoranthene	ND		71	7.6	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Fluorene	ND		71	9.4	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Indeno[1,2,3-cd]pyrene	ND		71	7.3	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Naphthalene	20	J	71	6.1	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Phenanthrene	ND		71	11	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1
Pyrene	ND		71	7.2	ug/Kg	☼	07/18/14 03:10	07/22/14 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		25 - 104	07/18/14 03:10	07/22/14 15:47	1
Terphenyl-d14 (Surr)	65		25 - 127	07/18/14 03:10	07/22/14 15:47	1
Phenol-d5 (Surr)	72		25 - 105	07/18/14 03:10	07/22/14 15:47	1
2-Fluorophenol (Surr)	71		39 - 103	07/18/14 03:10	07/22/14 15:47	1
2,4,6-Tribromophenol (Surr)	62		35 - 124	07/18/14 03:10	07/22/14 15:47	1
2-Fluorobiphenyl	66		35 - 105	07/18/14 03:10	07/22/14 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: Bottom

Lab Sample ID: 480-63724-4

Date Collected: 07/11/14 10:30

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 92.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.4	1.0	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
1,3,5-Trimethylbenzene	ND		5.4	0.35	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
4-Isopropyltoluene	ND		5.4	0.43	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Benzene	ND		5.4	0.26	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Methyl-t-Butyl Ether (MTBE)	ND		5.4	0.53	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
m-Xylene & p-Xylene	ND		11	0.90	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Naphthalene	ND		5.4	0.72	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
n-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
N-Propylbenzene	ND		5.4	0.43	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
o-Xylene	ND		5.4	0.70	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
sec-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Toluene	ND		5.4	0.41	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
tert-Butylbenzene	ND		5.4	0.56	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1
tert-Butyl alcohol (TBA)	ND		54	18	ug/Kg	☼	07/15/14 13:49	07/15/14 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	07/15/14 13:49	07/15/14 17:37	1
4-Bromofluorobenzene (Surr)	94		72 - 126	07/15/14 13:49	07/15/14 17:37	1
Toluene-d8 (Surr)	98		71 - 125	07/15/14 13:49	07/15/14 17:37	1
Dibromofluoromethane (Surr)	107		60 - 140	07/15/14 13:49	07/15/14 17:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		72	6.9	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Acenaphthylene	ND		72	8.2	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Anthracene	ND		72	7.0	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Benzo[a]anthracene	ND		72	9.0	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Benzo[a]pyrene	ND		72	7.2	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Benzo[b]fluoranthene	ND		72	11	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Benzo[g,h,i]perylene	ND		72	7.2	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Benzo[k]fluoranthene	ND		72	15	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Chrysene	ND		72	8.6	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Dibenz(a,h)anthracene	ND		72	8.0	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Fluoranthene	ND		72	7.7	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Fluorene	ND		72	9.5	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Indeno[1,2,3-cd]pyrene	ND		72	7.4	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Naphthalene	ND		72	6.2	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Phenanthrene	ND		72	11	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1
Pyrene	ND		72	7.3	ug/Kg	☼	07/18/14 03:10	07/22/14 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	73		25 - 104	07/18/14 03:10	07/22/14 16:16	1
Terphenyl-d14 (Surr)	66		25 - 127	07/18/14 03:10	07/22/14 16:16	1
Phenol-d5 (Surr)	69		25 - 105	07/18/14 03:10	07/22/14 16:16	1
2-Fluorophenol (Surr)	68		39 - 103	07/18/14 03:10	07/22/14 16:16	1
2,4,6-Tribromophenol (Surr)	62		35 - 124	07/18/14 03:10	07/22/14 16:16	1
2-Fluorobiphenyl	64		35 - 105	07/18/14 03:10	07/22/14 16:16	1

TestAmerica Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: East

Lab Sample ID: 480-63724-5

Date Collected: 07/11/14 15:00

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		6.5	1.2	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
1,3,5-Trimethylbenzene	ND		6.5	0.42	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
4-Isopropyltoluene	ND		6.5	0.52	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Benzene	ND		6.5	0.32	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Ethylbenzene	ND		6.5	0.45	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Isopropylbenzene	ND		6.5	0.98	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Methyl-t-Butyl Ether (MTBE)	ND		6.5	0.64	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Naphthalene	ND		6.5	0.87	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
n-Butylbenzene	ND		6.5	0.57	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
N-Propylbenzene	ND		6.5	0.52	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
o-Xylene	ND		6.5	0.85	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
sec-Butylbenzene	ND		6.5	0.57	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Toluene	ND		6.5	0.49	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
tert-Butylbenzene	ND		6.5	0.68	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1
tert-Butyl alcohol (TBA)	ND		65	22	ug/Kg	☼	07/15/14 13:49	07/15/14 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	07/15/14 13:49	07/15/14 18:03	1
4-Bromofluorobenzene (Surr)	98		72 - 126	07/15/14 13:49	07/15/14 18:03	1
Toluene-d8 (Surr)	97		71 - 125	07/15/14 13:49	07/15/14 18:03	1
Dibromofluoromethane (Surr)	109		60 - 140	07/15/14 13:49	07/15/14 18:03	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		87	8.3	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Acenaphthylene	ND		87	10	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Anthracene	ND		87	8.5	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Benzo[a]anthracene	ND		87	11	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Benzo[a]pyrene	ND		87	8.7	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Benzo[b]fluoranthene	ND		87	14	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Benzo[g,h,i]perylene	ND		87	8.6	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Benzo[k]fluoranthene	ND		87	18	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Chrysene	ND		87	10	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Dibenz(a,h)anthracene	ND		87	9.7	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Fluoranthene	ND		87	9.3	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Fluorene	ND		87	11	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Indeno[1,2,3-cd]pyrene	ND		87	9.0	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Naphthalene	ND		87	7.5	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Phenanthrene	ND		87	14	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1
Pyrene	ND		87	8.8	ug/Kg	☼	07/18/14 03:10	07/22/14 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		25 - 104	07/18/14 03:10	07/22/14 16:45	1
Terphenyl-d14 (Surr)	63		25 - 127	07/18/14 03:10	07/22/14 16:45	1
Phenol-d5 (Surr)	66		25 - 105	07/18/14 03:10	07/22/14 16:45	1
2-Fluorophenol (Surr)	65		39 - 103	07/18/14 03:10	07/22/14 16:45	1
2,4,6-Tribromophenol (Surr)	58		35 - 124	07/18/14 03:10	07/22/14 16:45	1
2-Fluorobiphenyl	62		35 - 105	07/18/14 03:10	07/22/14 16:45	1

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: West

Date Collected: 07/09/14 15:00

Date Received: 07/15/14 01:30

Lab Sample ID: 480-63724-1

Matrix: Solid

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			192796	07/15/14 13:49	RAS	TAL BUF
Total/NA	Analysis	8260C		1	192832	07/15/14 16:20	CDC	TAL BUF
Total/NA	Prep	3541			111842	07/18/14 03:10	KLG	TAL PIT
Total/NA	Analysis	8270D		1	112154	07/22/14 14:50	VVP	TAL PIT
Total/NA	Analysis	Moisture		1	192797	07/15/14 08:24	ZJR	TAL BUF

Client Sample ID: North

Date Collected: 07/10/14 14:00

Date Received: 07/15/14 01:30

Lab Sample ID: 480-63724-2

Matrix: Solid

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			192796	07/15/14 13:49	RAS	TAL BUF
Total/NA	Analysis	8260C		1	192832	07/15/14 16:46	CDC	TAL BUF
Total/NA	Prep	3541			111842	07/18/14 03:10	KLG	TAL PIT
Total/NA	Analysis	8270D		1	112154	07/22/14 15:19	VVP	TAL PIT
Total/NA	Analysis	Moisture		1	192797	07/15/14 08:24	ZJR	TAL BUF

Client Sample ID: South

Date Collected: 07/10/14 14:30

Date Received: 07/15/14 01:30

Lab Sample ID: 480-63724-3

Matrix: Solid

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			192796	07/15/14 13:49	RAS	TAL BUF
Total/NA	Analysis	8260C		1	192832	07/15/14 17:12	CDC	TAL BUF
Total/NA	Prep	3541			111842	07/18/14 03:10	KLG	TAL PIT
Total/NA	Analysis	8270D		1	112154	07/22/14 15:47	VVP	TAL PIT
Total/NA	Analysis	Moisture		1	192797	07/15/14 08:24	ZJR	TAL BUF

Client Sample ID: Bottom

Date Collected: 07/11/14 10:30

Date Received: 07/15/14 01:30

Lab Sample ID: 480-63724-4

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			192796	07/15/14 13:49	RAS	TAL BUF
Total/NA	Analysis	8260C		1	192832	07/15/14 17:37	CDC	TAL BUF
Total/NA	Prep	3541			111842	07/18/14 03:10	KLG	TAL PIT
Total/NA	Analysis	8270D		1	112154	07/22/14 16:16	VVP	TAL PIT
Total/NA	Analysis	Moisture		1	192797	07/15/14 08:24	ZJR	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

TestAmerica Job ID: 480-63724-1

Client Sample ID: East

Lab Sample ID: 480-63724-5

Date Collected: 07/11/14 15:00

Matrix: Solid

Date Received: 07/15/14 01:30

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			192796	07/15/14 13:49	RAS	TAL BUF
Total/NA	Analysis	8260C		1	192832	07/15/14 18:03	CDC	TAL BUF
Total/NA	Prep	3541			111842	07/18/14 03:10	KLG	TAL PIT
Total/NA	Analysis	8270D		1	112154	07/22/14 16:45	VVP	TAL PIT
Total/NA	Analysis	Moisture		1	192797	07/15/14 08:24	ZJR	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63724-1

Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11182	03-31-15

Analysis Method	Prep Method	Matrix	Analyte
-----------------	-------------	--------	---------

Method Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63724-1

Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-63724-1

Project/Site: Ex.Site- Former Mele 1304120 PIN 06146

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-63724-1	West	Solid	07/09/14 15:00	07/15/14 01:30
480-63724-2	North	Solid	07/10/14 14:00	07/15/14 01:30
480-63724-3	South	Solid	07/10/14 14:30	07/15/14 01:30
480-63724-4	Bottom	Solid	07/11/14 10:30	07/15/14 01:30
480-63724-5	East	Solid	07/11/14 15:00	07/15/14 01:30

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-63724-1

Login Number: 63724

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	False	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-63724-1

Login Number: 63724

List Number: 2

Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

List Creation: 07/17/14 05:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Test America

and Authorization for Analysis

14

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler: _____		Lab PM: _____		Carrier Tracking No(s): _____		COC No: _____	
Client Contact: _____		Phone: _____		Stone, Judy L		480-17615-1		480-17615-1	
Shipping/Receiving		Company: _____		E-Mail: _____		Judy.stone@testamericainc.com		Page: 1 of 1	
Address: _____		City: _____		State: _____		Zip: _____		Job #: _____	
Phone: _____		PO #: _____		412-963-7058(Tel) 412-963-2488(Fax)		480-63724-1		480-63724-1	
Email: _____		WQ #: _____		Project #: _____		48010129		48010129	
Ex. Site - Former Mele #1304120 PIN 061		SSOW#: _____		Due Date Requested: _____		7/25/2014		7/25/2014	
Site: _____		TAT Requested (days): _____		Sample Date: _____		7/9/14		7/9/14	
Sample Identification - Client ID (Lab ID)		Sample Time		Sample Date		Sample Time		Sample Date	
West (480-63724-1)		15:00 Eastern		7/9/14		15:00 Eastern		7/9/14	
North (480-63724-2)		14:00 Eastern		7/10/14		14:00 Eastern		7/10/14	
South (480-63724-3)		14:30 Eastern		7/10/14		14:30 Eastern		7/10/14	
Bottom (480-63724-4)		10:30 Eastern		7/11/14		10:30 Eastern		7/11/14	
East (480-63724-5)		15:00 Eastern		7/11/14		15:00 Eastern		7/11/14	
Possible Hazard Identification		Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: _____		Empty Kit Relinquished by: _____	
Relinquished by: _____		Date: _____		Time: _____		Relinquished by: _____		Date: _____	
Relinquished by: _____		Date: _____		Time: _____		Relinquished by: _____		Date: _____	
Relinquished by: _____		Date: _____		Time: _____		Relinquished by: _____		Date: _____	
Custody Seals Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		480-63724 Chain of Custody		480-63724 Chain of Custody	
Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		480-63724 Chain of Custody		480-63724 Chain of Custody	

1
2
3
4
5
6
7
8
9
10
11

Appendix D

TIPPING RECEIPTS

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 4120 A

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at INDUSTRIAL OIL date 7/2/14 from MELE MANUFACTURING

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
 Consignee INDUSTRIAL OIL TANK SERVICE CORP
 Street 120 DRY ROAD
 Destination ORISKANY, NEW YORK 13424
 Zip

FROM:
 Shipper MELE MANUFACTURING
 Street 1712 ERIE STREET
 Origin UTICA, NEW YORK
 Zip

Route

Delivering Carrier

EGGAN EXCAVATING

Vehicle Number #441

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			WASTE NON RCRA LIQUIDS N.O.S. (oil/water mixture)			1700	GAL	
REC'D 07/07/14 MELE MANUFACTURING								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: MELE MANUFACTURING

PER: DATE: 7/2/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/2/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

330 1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 4120-B

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at INDUSTRIAL OIL, date 7/7/14 from MELE MANUFACTURING

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: INDUSTRIAL OIL TANK SERVICE CORP
Consignee 120 DRY ROAD
Street ORISKANY, NEW YORK 13424
Destination Zip

FROM: MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin Zip

Route

Delivering Carrier

EGGAN EXCAVATING

Vehicle Number 441

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			WASTE NON RCRA LIQUIDS N.O.S. (oil /water mixture)			1800	GAL	
<p>REC'D 07/07/14</p> <p><i>[Signature]</i> DOTSC</p>								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ Collect

PLACARDS REQUIRED

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

NONE

SHIPPER: MELE MANUFACTURING

PER: DATE: 7/7/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/7/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 4120 C

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at INDUSTRIAL OIL, date 7/7/14 from MELE MANUFACTURING

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: INDUSTRIAL OIL TANK SERVICE CORP
 Consignee 120 DRY ROAD
 Street ORISKANY, NEW YORK 13424
 Destination Zip

FROM: MELE MANUFACTURING
 Shipper 1712 ERIE STREET
 Street UTICA, NEW YORK
 Origin Zip

Route

Delivering Carrier

EGGAN EXCAVATING

Vehicle Number

#441

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			WASTE NON RCRA LIQUIDS N.O.S. (oil /water mixture)			1700	GAL	
7/9/14 - Brett D. Fuld IOTSC								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

SHIPPER: MELE MANUFACTURING

PER: DATE: 7/7/14

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

PLACARDS SUPPLIED

☐ BY SHIPPER ☐ BY CARRIER

NONE

DRIVER'S SIGNATURE:

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/7/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 4120 D

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at INDUSTRIAL OIL date 7/9/14 from MELE MANUFACTURING

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
 Consignee INDUSTRIAL OIL TANK SERVICE CORP
 Street 120 DRY ROAD
 Destination ORISKANY, NEW YORK 13424 Zip

FROM:
 Shipper MELE MANUFACTURING
 Street 1712 ERIE STREET
 Origin UTICA, NEW YORK Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number #41

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			WASTE NON RCRA LIQUIDS N.O.S. (OIL/WATER MIXTURE)			1200 GAL		
7/9/14 - Brett D. Field IOTSC								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

SHIPPER: MELE MANUFACTURING

PER: DATE: 7/9/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/9/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 71014 ACarrier Egan Excavating

SCAC

Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at Industrial Oil, date 7/10/14from Mele Mfg.

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee Industrial Oil
Street Dry Rd
Destination Oriskany N.Y. Zip

FROM:
Shipper Mele Mfg
Street Ernie St.
Origin Utica N.Y. Zip

Route

Delivering Carrier Egan ExcavatingVehicle Number #41

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			Waste non PCRA liquid NOS (petroleum contaminated water)			1300 gallons		
			REC'D 07/10/14					
			*NOTE - 4% TOTAL SOLIDS					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

SHIPPER: Mele MfgPER: DATE: 7/10/14

EMERGENCY RESPONSE
TELEPHONE NUMBER: (315) 339-1847

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ CollectPLACARDS
REQUIREDPLACARDS
SUPPLIEDDRIVER'S
SIGNATURE:☐ BY SHIPPER☐ BY CARRIERCARRIER: Egan ExcavatingPER: Jays Egan DATE: 7/10/14

NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 4120 E

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at INDUSTRIAL OIL, date 7/11/14 from MELE MANUFACTURING

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: INDUSTRIAL OIL TANK SERVICE CORP
Consignee 120 DRY ROAD
Street
Destination ORISKANY, NEW YORK 13424
Zip

FROM: MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin **Zip**

Route

Delivering Carrier

EGGAN EXCAVATING

Vehicle Number: 41

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 TT			WASTE NON RCRA LIQUIDS N.O.S. (OILWATER MIXTURE)			1800	GAL	
<p>Free 07/11/14</p> <p>McMan L TOTSC</p>								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

SHIPPER: MELE MANUFACTURING

PER: DATE: 7/11/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/11/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

345

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 7914 BCarrier Egan Excavating

SCAC

Carrier's No. GA-100

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at Industrial Oildate 7/9/14from Mele MFg

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:
Consignee Industrial Oil
Street Dr. Rd
Destination Oriskany, NY. Zip

FROM:
Shipper Mele MFg.
Street Eric St
Origin Utica NY Zip

Route

Delivering Carrier Egan ExcavatingVehicle Number 50

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
<u>13 DM</u>			<u>Waste NonRCRA Sol. W/Os</u> <u>(#60:1 tank bottoms)</u>				<u>2500 lbs.</u>	
<u>received 7-10-14</u> <u>7/9/14</u>								

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

SHIPPER: Mele MFg.PER: DATE: 7/9/14

EMERGENCY RESPONSE
TELEPHONE NUMBER: 315-339-1897

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ CollectPLACARDS
REQUIREDPLACARDS
SUPPLIEDDRIVER'S
SIGNATURE:☐ BY SHIPPER ☐ BY CARRIERCARRIER: Egan ExcavatingPER: 7914 EganDATE: 7/9/14

NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK STREET
ROME, NEW YORK 13440

INVOICE NO.
28670
WASTE HAULERS DISPOSAL SLIP

DATE 7/11/14	TIME 10:15	NYSDEC PERMIT NO. 6A-120	LICENSE PLATE NO. 41 53206-AV
-----------------	---------------	-----------------------------	----------------------------------

WASTE HAULERS FIRM NAME:

Egan Exc

100
to
pad

PLEASE COMPLETE THE FOLLOWING INFORMATION:

SERVICE ACCOUNT NAME:

Mele Manufacturing

LOCATION ADDRESS:

Fire St
Utica NY

TELEPHONE NUMBER:

WASTE INFORMATION -

Please check appropriate item

- ☐ N901 Animal waste
- ☐ N902 Ash from incineration of STP sludge
- ☐ N903 Cesspool sludge
- ☐ N904 Composted sewage sludge
- ☐ N905 Holding tank sludge
- ☐ N906 Imhoff tank sludge
- ☐ N907 Marina holding tank sludge

Quantity of waste
(GALLONS)

- ☐ N908 Portable toilet waste
- ☐ N909 Septage
- ☐ N913 Sewage treatment sludge
- ☐ N914 Water treatment plant residuals
- ☒ N999 Other miscellaneous non-industrial waste (specify) Excavation
grit
- ☐ N999A Grease traps

Quantity of waste
(GALLONS)

100 to
pad

Disposal of all waste from non-residential accounts requires owner operator signature. Residential septage accounts need not sign.

SERVICE ACCOUNT CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above.

SIGNATURE:

TYPE/PRINT NAME:

DATE:

HAULER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS: I certify that the above waste was properly handled and delivered to the Rome WPCF.

SIGNATURE:

DATE:

FACILITY OPERATOR: Certification of receipt of material covered by this disposal slip except as noted in comments section below.

SIGNATURE:

DATE:

TIME:

COMMENTS:

DISCHARGE LOCATION

☐ DISPOSAL STATION 1

☒ OTHER (specify)

100 to pad

DISPOSAL OF WASTE NOT LISTED ON HAULER'S PERMIT OR FALSIFICATION OF THIS DISPOSAL SLIP MAY RESULT IN REVOCATION OF HAULER'S CURRENT CITY PERMIT

TICKET # 2032976

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180

EGGAN EXCAVATION AND EQUIPMENT

7439 TOWN LINE ROAD - RD

ROME, NY 13440

Truck ID 180.19

TRAILER #

Order # 2014

2014 CONTRACT PRICING

DATE: 07/28/2014

TIME IN: 8:49 am

TIME OUT: 9:06 am

CSRLF	Contaminated Soil to R	21.04tn	\$25.00tn
-------	------------------------	---------	-----------

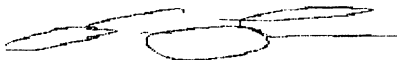
Gross:	69200	Tare:	27120	Net:	42080
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	21.04 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 526.00
---------------	------------------



CS/0714-05

T 58.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 A

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations.

at ONEIDA HERKIMER SWA, date 7/28/14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee ROUTE 294
Street 2032976
Destination AVA, NEW YORK
Zip

FROM: FORMER MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin
Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number #55

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				22 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				21.04	

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

TOTAL CHARGES:

\$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

PLACARDS SUPPLIED

NONE

DRIVER'S SIGNATURE:

☐ BY SHIPPER☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/28/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/28/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2032978

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/28/2014

TIME IN: 8:51 am

TIME OUT: 9:08 am

CSRLF	Contaminated Soil to R	21.27 tn	\$25.00tn
-------	------------------------	----------	-----------

Gross:	71920	Tare:	29380	Net:	42540
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	21.27 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 531.75
---------------	------------------



CS/0714-05 T # 22.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 B

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper on request, and all applicable state and federal regulations:

at ONEIDA HERKIMER SWA, date 7-28-14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: 2032978
Destination: AVA, NEW YORK
Zip:

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin:
Zip:

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				22 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				21.27	

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-28-14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ Collect

PLACARDS REQUIRED

PLACARDS SUPPLIED

NONE

DRIVER'S SIGNATURE:

☐ BY SHIPPER☐ BY CARRIER

CARRIER:

EGGAN EXCAVATING & EQUIPMENT CO., INC

PER:

JAYN EGGAN

DATE: 7-28-14

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2032984

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.2**

TRAILER #

Order # **2014** 2014 CONTRACT PRICING

DATE: 07/28/2014

TIME IN: 8:54 am

TIME OUT: 9:12 am

CSRLF	Contaminated Soil to R	12.46tn	\$25.00tn
-------	------------------------	---------	-----------

Gross.	48340	Tare:	23420	Net:	24920
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	12.46 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 311.50
---------------	------------------

Ben Parnett

CS/0714-05 T # 20.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 C

Carrier EGGAN EXCAVATING

SCAC

Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations.

at ONEIDA HERKIMER SWA, date 7/28/14, from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA

Consignee ROUTE 294

Street AVA, NEW YORK

Destination Zip

FROM: FORMER MELE MANUFACTURING

Shipper 1712 ERIE STREET

Street UTICA, NEW YORK

Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				12.46	

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

TOTAL CHARGES:

\$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/28/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/28/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033088

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180

EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID 180.19

TRAILER #

Order # 2014 2014 CONTRACT PRICING

DATE: 07/28/2014

TIME IN: 10:56 am

TIME OUT: 11:08 am

CSRLF	Contaminated Soil to R	22.08tn	\$25.00tn
--------------	-------------------------------	----------------	------------------

Gross:	71180	Tare:	27020	Net:	44160
---------------	--------------	--------------	--------------	-------------	--------------

Scale 5	Scale 5	22.08 Tn
----------------	----------------	-----------------

Route	Truck
--------------	--------------

Date	Time
-------------	-------------

TICKET AMOUNT	\$ 552.00
----------------------	------------------



CS/0714-05 T # 58.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 D

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper on request, and all applicable state and federal regulations.

at ONEIDA HERKIMER SWA date 7/28/14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee ROUTE 294
Street AVA, NEW YORK
Destination Zip 2033088

FROM: FORMER MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number #58

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				22 TON	
							22.00	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05					
			Permentu					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/28/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC.

PER: JAYN EGGAN DATE: 7/28/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033104

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/28/2014

TIME IN: 11:14 am

TIME OUT: 11:28 am

CSRLF	Contaminated Soil to R	22.01tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	73440	Tare:	29420	Net:	44020
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	22.01 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 550.25
---------------	------------------



CS/0714-05. T # 22

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 E

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA, date 7-28-14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: AVA, NEW YORK
Destination: Zip 2033104

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin: Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				22 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				22.01	
			<i>Reaporter</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-28-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-28-14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033108

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/28/2014

TIME IN 11:15 am

TIME OUT: 11:25 am

CSRLF	Contaminated Soil to R	13.40tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	50140	Tare:	23340	Net:	26800
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	13.40 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 335.00
---------------	------------------

Sam Pappas

CS/0414-05 T # 20.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 F

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA, date 7/28/14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: AVA, NEW YORK
Destination: Zip 2033108

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin: Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
							13.40	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05					
			Reported					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

TOTAL CHARGES:

\$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/28/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/28/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033222

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/28/2014

TIME IN: 1:14 pm

TIME OUT: 1:24 pm

CSRLF	Contaminated Soil to R	14.44tn	\$25.00tn
-------	------------------------	---------	-----------

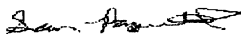
Gross:	52140	Tare:	23260	Net:	28880
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	14.44 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 361.00
---------------	------------------



CS/0714-05 T # 20.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 G

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper on request and all applicable state and federal regulations:

at ONEIDA HERKIMER SWA, date 7/28/14, from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: 2033222
Destination: AVA, NEW YORK
Zip:

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin:
Zip:

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				14.44	

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/28/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/28/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033237

Oneida County Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/28/2014

TIME IN: 1:31pm

TIME OUT 1:44 pm

CSRLF	Contaminated Soil to R	23.38tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	76000	Tare:	29240	Net:	46760
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	23.38 Tn
---------	---------	-----------------

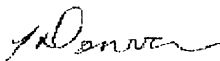
Route

Truck

Date

Time

TICKET AMOUNT **\$ 584.50**



CS/0714-05 T # 22.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 H

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations:

at ONEIDA HERKIMER SWA date 7-25-14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: 2033 237
Destination: AVA, NEW YORK
Zip:

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin:
Zip:

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)			22	TON	
						23.30		
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05					
			Reupenter					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☒ BY SHIPPER☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-25-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-25-14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033413

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180

EGGAN EXCAVATION AND EQUIPMENT

7439 TOWN LINE ROAD - RD

ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 7:20 am

TIME OUT: 7:35 am

CSRLF	Contaminated Soil to R	22.88tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	75180	Tare:	29420	Net:	45760
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	22.88 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 572.00
---------------	------------------

Dave Cavanaugh

CS/.0714-05 T #22

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-051

Carrier EGGAN EXCAVATING SCAC _____ Carrier's No. 6A-120
 RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;
 at ONEIDA HERKIMER SWA, date 7-28-14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
 Consignee ROUTE 294
 Street AVA, NEW YORK
 Destination Zip
FROM: FORMER MELE MANUFACTURING
 Shipper 1712 ERIE STREET
 Street UTICA, NEW YORK
 Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				22 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				22.80	
			<i>Reported</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ Per _____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE: *[Signature]*☒ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-28-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-28-14

EMERGENCY RESPONSE

TELEPHONE NUMBER: 315 339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033470

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 8:27 am

TIME OUT: 8:38 am

CSRLF	Contaminated Soil to R	14.01tn	\$25.00tn
-------	------------------------	---------	-----------

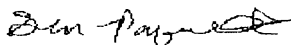
Gross:	51420	Tare:	23400	Net:	28020
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	14.01 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT **\$ 350.25**



.CS/0714-05 #20

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 J

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper on request; and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA date 7/29/14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee ROUTE 294
Street AVA, NEW YORK
Destination Zip 20334710

FROM: FORMER MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				14.01	
			<i>Paupertu</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/29/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO. INC

PER: JAYN EGGAN DATE: 7/29/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033512

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 9:26 am

TIME OUT: 9:40 am

CSRLF	Contaminated Soil to R	21.71tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	72760	Tare:	29340	Net:	43420
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	21.71 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 542.75
---------------	------------------

Dave Cadanough

CS/0714-05 T # 22.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 K

Carrier EGGAN EXCAVATING

SCAC

Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA date 7-29-14 from FORMER MELE MANU

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA

Consignee ROUTE 294

Street AVA, NEW YORK

Destination Zip

FROM:

Shipper

Street

Origin

FORMER MELE MANUFACTURING

1712 ERIE STREET

UTICA, NEW YORK

Zip

Route

Delivering Carrier

EGGAN EXCAVATING

Vehicle Number

22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				21.71	
			<i>Laurent</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

David Cavanaugh

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-29-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-29-14

EMERGENCY RESPONSE

TELEPHONE NUMBER: 315 339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033560

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180

EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 10:25 am

TIME OUT: 10:34 am

CSRLF	Contaminated Soil to R	14.50tn	\$25.00tn
-------	------------------------	---------	-----------

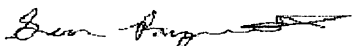
Gross:	52340	Tare:	23340	Net:	29000
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	14.50 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 362.50
---------------	------------------



CS/0714-05 T # 20.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 L

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA date 7/29/14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee ROUTE 294 2033560
Street AVE, NEW YORK
Destination Zip

FROM: FORMER MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
							14.50	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05					
			Pauperston					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

TOTAL CHARGES:

\$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/29/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/29/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

TICKET # 27 33614

Oneida-H. r Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 11:30 am

TIME OUT: 11:42 am

CSRLF	Contaminated Soil to R	21.80tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	72960	Tare:	29360	Net:	43600
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	21.80 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 545.00
---------------	------------------

Dave Cavanaugh

CS/0714-05 T # 2.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 M

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations:

at ONEIDA HERKIMER SWA, date 8-29-14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: AVA, NEW YORK
Destination: Zip 2033614

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin: Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)			2180	TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05					
			<i>Rapier</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

Dave Cavanaugh

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-29-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-29-14

EMERGENCY RESPONSE
TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033657

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315)733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 12:22 pm

TIME OUT: 12:32 pm

CSRLF Contaminated Soil to R 14.13tn \$25.00tn

Gross: **51520** Tare: **23260** Net: **28260**

Scale 5 Scale 5 **14.13 Tn**

Route Truck

Date Time

TICKET AMOUNT **\$ 353.25**



CS/0714-05 T # 20.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 N

Carrier EGGAN EXCAVATING

SCAC

Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA

date 7/29/14

from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA

Consignee ROUTE 294

Street AVA, NEW YORK

Destination Zip

FROM: FORMER MELE MANUFACTURING

Shipper 1712 ERIE STREET

Street UTICA, NEW YORK

Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				14.13	
			<i>Rapenka</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect☐ BY SHIPPER ☐ BY CARRIER

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/29/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/29/14

EMERGENCY RESPONSE
TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:

TICKET # 2033738

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica, New York 13502
(315) 733-1224

CUSTOMER # 180
EGGAN EXCAVATION AND EQUIPMENT
7439 TOWN LINE ROAD - RD
ROME, NY 13440

Truck ID **180.1**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 1:39 pm

TIME OUT: 1:58 pm

CSRLF	Contaminated Soil to R	23.19tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	75440	Tare:	29060	Net:	46380
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	23.19 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 579.75
---------------	------------------

Dave Connamough

CS/0714-05 T # 22.

WEIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 O

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper on request; and all applicable state and federal regulations.

at ONEIDA HERKIMER SWA, date 7-29-14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee: ROUTE 294
Street: AVA, NEW YORK
Destination: Zip 2033738

FROM: FORMER MELE MANUFACTURING
Shipper: 1712 ERIE STREET
Street: UTICA, NEW YORK
Origin: Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 22

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				23.19	
			<i>Rapenka</i>					

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7-29-14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7-29-14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

2033777

On Solid Waste

Authority

1 Tennessee Street

Union New York 13502

1224

CUSTOMER #

EGGAN EXCAVATION AND EQUIPMENT

7439 TOWN LINE RD - RD

ROME, NY 13440

Truck ID **180.10**

TRAILER #

Order # **2014** **2014 CONTRACT PRICING**

DATE: 07/29/2014

TIME IN: 2:27 pm

TIME OUT: 2:38 pm

CSRLF	Contaminated Soil to R	16.82tn	\$25.00tn
-------	------------------------	---------	-----------

Gross:	56840	Tare:	23200	Net:	33640
--------	--------------	-------	--------------	------	--------------

Scale 5	Scale 5	16.82 Tn
---------	---------	-----------------

Route	Truck
-------	-------

Date	Time
------	------

TICKET AMOUNT	\$ 420.50
---------------	------------------

Sam D'Amato

CS/0714-05 T # 20.

WRIGHTMASTER: PATTY

Thanks

STRAIGHT BILL OF LADING - ORIGINAL - NOT NEGOTIABLE

Shipper's No. 0714-05 P

Carrier EGGAN EXCAVATING SCAC Carrier's No. 6A-120

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at ONEIDA HERKIMER SWA date 7/29/14 from FORMER MELE MANU

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO: ONEIDA HERKIMER SWA
Consignee ROUTE 294
Street AVA, NEW YORK
Destination Zip 2033-777

FROM: FORMER MELE MANUFACTURING
Shipper 1712 ERIE STREET
Street UTICA, NEW YORK
Origin Zip

Route

Delivering Carrier EGGAN EXCAVATING

Vehicle Number 20

U.S. DOT Hazmat Reg. Number

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
1 DT			WASTE NON RCRA SOLID N.O.S. (OIL CONTAMINATED SOIL)				15 TON	
			ONEIDA HERKIMER LANDFILL PROFILE NO. CS-0714-05				16.82	

Remit COD to:

Address:

City: State: Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ Per

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(e)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect

PLACARDS REQUIRED

NONE

PLACARDS SUPPLIED

DRIVER'S SIGNATURE:

☐ BY SHIPPER ☐ BY CARRIER

SHIPPER: FORMER MELE MANUFACTURING

PER: DATE: 7/29/14

CARRIER: EGGAN EXCAVATING & EQUIPMENT CO., INC

PER: JAYN EGGAN DATE: 7/29/14

EMERGENCY RESPONSE TELEPHONE NUMBER:

315

339-1847

NAME OR CONTRACT NUMBER OR OTHER UNIQUE IDENTIFIER:

Appendix E

SPILLS DATABASE
PBS DATABASE



Bulk Storage Database Search Details

Facility Information

Site No.: 6-262684

Status: Active

Expiration Date: 07/30/2014

Site Type: PBS

Site Name: MELE MANUFACTURING COMPANY (FORMER)

Address: 1712 ERIE STREET

Locality: UTICA

State: NY

Zipcode: 13502

County: ONEIDA

Owner(s) Information

Facility Owner: CITY OF UTICA

1 KENNEDY PLAZA . UTICA, NY. 13502

Mail Contact: CITY OF UTICA DEPT. OF ENGINEERING

1 KENNEDY PLAZA . UTICA, NY. 13502

Tank Information

2 Tanks Found

Tank No	Tank Location	Status	Capacity (Gal.)
002	Underground	Closed - Removed	2000
1	Underground	In Service	20000

[Back to Search Results](#)

[Refine Current Search](#)



NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Bulk Storage Database Search Details

Tank Information

[Next Tank](#)[Last Tank](#)

Site No: 6-262684

Site Name: MELE MANUFACTURING COMPANY (FORMER)

Tank No: 002

Tank Location: Underground

Tank Status: Closed - Removed

Tank Install Date: 07/01/1977

Tank Closed Date: 07/01/1992

Tank Capacity: 2000 gal.

Product Stored: #2 Fuel Oil (On-Site Consumption)

Percentage: 100%

Tank Type: 01 - Steel/Carbon Steel/Iron

Tank Internal Protection: None

Tank External Protection: None

Tank Secondary Containment: None

Tank Leak Detection: None

Overfill: Product Level Gauge (A/G)

Spill Prevention: None

Dispenser: Suction Dispenser

Pipe Location: No Piping

Pipe Type: Steel/Carbon Steel/Iron

Pipe External Protection: None

Piping Secondary Containment: None

Piping Leak Detection: None

Tank Next Test Due:

Tank Last Test: 04/01/1988

Tank Test Method: Horner EZ Check I or II

[Refine Current Search](#)

[Back to Facility Info](#)



NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Bulk Storage Database Search Details

Tank Information

[First Tank](#)[Previous Tank](#)

Site No: 6-262684

Site Name: MELE MANUFACTURING COMPANY (FORMER)

Tank No: 1

Tank Location: Underground

Tank Status: In Service

Tank Install Date: 08/01/1978

Tank Closed Date:

Tank Capacity: 20000 gal.

Product Stored: #6 Fuel Oil (On-Site Consumption)

Percentage: 100%

Tank Type: 01 - Steel/Carbon Steel/Iron

Tank Internal Protection: None

Tank External Protection: None

Tank Secondary Containment: None

Tank Leak Detection: None

Overfill: None

Spill Prevention: Catch Basin

Dispenser: Suction Dispenser

Pipe Location: No Piping

Pipe Type: Steel/Carbon Steel/Iron

Pipe External Protection: None

Piping Secondary Containment: None

Piping Leak Detection: Exempt Suction Piping

Tank Next Test Due:

Tank Last Test:

Tank Test Method: Testing Not Required

[Refine Current Search](#)

[Back to Facility Info](#)



NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 8804909

Spill Date/Time

Spill Date: 09/06/1988 **Spill Time:** 10:15:00 AM

Call Received Date: 09/06/1988 **Call Received Time:** 10:35:00 AM

Location

Spill Name: MELE MANUFACTURING

Address: 1712 ERIE ST

City: UTICA **County:** ONEIDA

Spill Description

Material Spilled Amount Spilled Resource Affected

#6 Fuel Oil 30.00 Gal. Soil

Cause: Tank Overfill

Source: Commercial/Industrial

Waterbody:

Record Close

Date Spill Closed: 10/20/1988

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 9009911

Spill Date/Time

Spill Date: 12/12/1990 **Spill Time:** 10:45:00 AM

Call Received Date: 12/12/1990 **Call Received Time:** 11:18:00 AM

Location

Spill Name: MELE MFG. CO.

Address: 1712 ERIE ST

City: UTICA **County:** ONEIDA

Spill Description

Material Spilled Amount Spilled Resource Affected

Gasoline 20.00 Gal. Soil

Cause: Equipment Failure

Source: Passenger Vehicle

Waterbody:

Record Close

Date Spill Closed: 01/11/1991

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 9800148

Spill Date/Time

Spill Date: 04/03/1998 **Spill Time:** 02:20:00 PM

Call Received Date: 04/03/1998 **Call Received Time:** 03:02:00 PM

Location

Spill Name: PARLOR CITY BOX

Address: 1712 ERIE ST

City: UTICA **County:** ONEIDA

Spill Description

Material Spilled **Amount Spilled** **Resource Affected**

Diesel UNKNOWN Soil

Cause: Equipment Failure

Source: Commercial Vehicle

Waterbody:

Record Close

Date Spill Closed: 04/03/1998

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)



NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 0110863

Spill Date/Time

Spill Date: 02/14/2002 **Spill Time:** 07:30:00 AM

Call Received Date: 02/14/2002 **Call Received Time:** 08:18:00 AM

Location

Spill Name: MELE MANUFACTURING CO.

Address: 1712 ERIE STREET

City: UTICA **County:** ONEIDA

Spill Description

Material Spilled Amount Spilled Resource Affected

Diesel UNKNOWN Soil

Cause: Equipment Failure

Source: Commercial Vehicle

Waterbody:

Record Close

Date Spill Closed: 01/22/2003

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)



NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 6

Spill Number: 1304120

Spill Date/Time

Spill Date: 07/17/2013 **Spill Time:** 10:04:00 AM

Call Received Date: 07/17/2013 **Call Received Time:** 10:04:00 AM

Location

Spill Name: EXCAVATION SITE - FORMER MELE MANUFACTURING

Address: 1712 ERIE ST

City: UTICA **County:** ONEIDA

Spill Description

Material Spilled **Amount Spilled** **Resource Affected**

#6 Fuel Oil UNKNOWN Unknown

Cause: Other

Source: Commercial/Industrial

Waterbody:

PBS #: [6-262684](#)

Record Close

Date Spill Closed: Not closed

If you have questions about this reported incident, please contact the [Regional Office](#) where the incident occurred.

[Back to Search Results](#)

[Refine Current Search](#)

ATTACHMENT E

SITE PHOTOS



Access Vault and Gas / Steam Line



Soil Pile 1



Soil Pile 2