LIMITED PHASE II ENVIRONMENTAL ASSESSMENT

SURFACE SOIL, SUBSURFACE SOIL, AND GROUNDWATER INVESTIGATION

Syracuse Scale
156-158 Solar Street
Syracuse, New York 13204

February 16, 2018

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Common Acronyms/Abbreviations

AAI – All Appropriate Inquiries
AST – Aboveground Storage Tank
ASTM – American Society for Testing Materials International
bgs – Below Ground Surface
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
CFR – Code of Federal Regulations
CP-51 – (NYSDEC) Commissioner's Policy #51 (for Soil Cleanup Guidance)
CREC – Controlled Recognized Environmental Condition
DEC – Department of Environmental Conservation
EDR – Environmental Data Resources (Company)
ESA – Environmental Site Assessment
FOIA/FOIL – Freedom of Information Act/Law
GIS – Geographic Information Systems
GWS – Groundwater Standard
HREC – Historical Recognized Environmental Condition
LSI – Limited Subsurface Investigation
N/A – Not Applicable
NRCS – Natural Resource Conservation Service
NYSDEC – New York State Department of Environmental Conservation
PAH – Polycyclic Aromatic Hydrocarbons
PCB – Poly-Chlorinated Biphenyl
ppb – Parts Per Billion
ppm – Parts Per Million
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)
USDA – United States Department of Agriculture
USEPA – United States Environmental Protection Agency
USGS – United States Geological Survey
UST – Underground Storage Tank
VOC – Volatile Organic Compound

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1.0 INTRODUCTION

The Asbestos & Environmental Consulting Corporation (AECC) performed a limited Phase II Environmental Site Assessment (ESA) at the Syracuse Scale Co. Inc. facility (hereafter referred to as "Syracuse Scale"), located at 156-158 Solar Street, in the City of Syracuse, New York (hereafter referenced as the "Site", "Property", or "Facility"). The parcel is displayed on Figure 1 (Site Plan/Sample Location). AECC performed this work under contract to BBL Construction Services, LLC (hereafter referred to as "BBL"), the construction manager for the prospective purchaser of the Property, who intends to construct ground level commercial office space with apartments on the upper floors. The north wing of the subject building is currently in use as offices and operations by Syracuse Scale, while the remainder of the building is vacant.

This Phase II ESA follows an earlier (December 2016) Phase II Assessment performed by Plumley Engineering, P.C. (Plumley) for the Owner of the property which, based upon the data developed as part of that Phase II ESA, determined that "no further investigation is recommended and no remediation appears to be warranted." The property is zoned for commercial use and is serviced by both municipal water and sewer.

1.1 PURPOSE

The purpose of this investigation was to further determine the nature and extent of contaminated soil and groundwater at the Site, and to recommend whether additional investigation or remedial action is warranted.

1.2 PROJECT HISTORY

AECC was provided with the following reports pertaining to the Site prior to initiating investigation activities:

- Phase I Environmental Site Assessment (ESA), September 2016, Plumley Engineering, P.C. (Plumley): The Phase I ESA identified two (2) Recognized Environmental Conditions (RECs), including: 1) a history of industrial use for over 100 years, and 2) records of contaminated soil associated with the removal of an underground gasoline tank that was located in the southern parking lot adjacent to Solar Street (off site for the source of this current Phase II ESA).

- Phase II ESA, December 2016, Plumley: Seven (7) borings were advanced during the Phase II ESA. Temporary wells were installed in each boring. Soil and groundwater samples were collected from each boring / well. In general, concentrations of contaminants were found to be below applicable State standards, except for a boring/well (B-5/TW) and boring B-6, both located in the eastern portion of the southern parking lot (in front of the "southern annex building"). Petroleum odors, staining, and sheens were observed in the three (3) borings advanced in the southern parking lot. NYSDEC Spill File #16-09292 was assigned to the Site. Groundwater was determined to flow from east to west. Spill #16-09292 was closed by the Department of Environmental Conservation ("DEC") on January 9, 2017. The DEC determined that "Based on the review of the analytical data and comparing it to the unrestricted Use Values found in Commissioner's Policy, CP-51, no further remedial activities are necessary."

In addition, AECC was retained by BBL to execute a Phase I ESA for the Facility concurrent with the Limited Phase II ESA activities. AECC's Phase I ESA, provided under separate cover and dated January 24, 2018, identified the following Recognized Environmental Conditions (RECs), Historical RECs, or Controlled RECs associated with the Site:

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- *Oil Slick / Staining in Boiler Room and Adjacent Storage Area*

  During site reconnaissance activities, accumulated oil on the floor in the boiler room and adjacent storage room was observed. Between October 2017 (initial site visit) and January 2018 (follow-up site visit), building owner representatives hired a company to remove the oil and clean the area. However, oil slicks and staining still remain at some locations. Although the associated AST appears to have been cleaned, the status of registration and other tank closure activities is unknown.

- *Historical Industrial / Manufacturing use (On-site and Vicinity)*

  The Site and the immediately surrounding area have a 60+ year history of industrial and manufacturing use. This history increases the likelihood of the use of various chemicals and petroleum compounds that could impact Site soil and groundwater.

- *Chemical Jars*

  During site reconnaissance activities, AECC noted the presence of several chemicals in jars (both intact and broken) on the third floor / mezzanine areas. The chemicals appeared to be dyes and/or associated with dyeing operations.

- *'Urban Land' / Fill*

  The presence of 'urban land' indicates the potential use of poor-quality fill to bring the site to current grade. In addition, small, discrete soil piles were noted on the Site. The origin of said piles are unknown, and the potential that they have been illegally dumped and/or are contaminated exists.

- *Historical 2,000-gallon UST Removal and Encountered Contamination*

  NYSDEC records indicate that a 2,000-gallon UST (used for storing gasoline) was removed from the Site in 1995. Spill file 95-11787 was opened when contamination related to the former UST was encountered during removal activities at the Site. Although the spill file was closed, the lack of further documented information (no formal tank closure report, sampling results, contaminated soil/groundwater disposal report, or figure depicting the former tank location) causes this incident to be considered a CREC.

- *On-Site Soil and Groundwater Contamination (2016)*

  Plumley Engineering, P.C. completed soil boring activities and temporary well installations at the Site in December 2016. Detectable concentrations of several contaminants were noted and laboratory analysis of collected samples exhibited concentrations of contaminants above their respective CP-51 Soil Cleanup Objectives (SCOs) at some locations. Although the NYSDEC closed the associated Spill File (# 1609292), the remaining contamination constitutes a CREC.

The Phase I ESA recommended that additional investigative activities be initiated at the Site, which this Phase II ESA investigation addresses.

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2.0 SCOPE OF SERVICES

The following activities were conducted at the Site during this Phase II ESA.

2.1 UTILITY CLEARANCES & GPR Survey

Prior to initiating soil borings, AECC's drilling subcontractor, NYEG Drilling, LLC (NYEG), contacted Dig Safely New York to identify buried public utilities at the site boundaries.

In addition, AECC subcontracted National Ground Penetrating Radar Services (NGPR) to further delineate buried utilities on the site in the vicinity of proposed soil boring locations. NGPR utilized ground-penetrating radar and other geophysical equipment in the vicinity of proposed borings to assure the safety of drilling in these areas and to assess other potential subsurface anomalies that may exist, which may be indicative of buried storage tanks or other potential items of concern.

2.2 SOIL INVESTIGATION

Subsurface Soils

Drilling services were provided by NYEG. The soil investigation included the advancement of nine (9) soil borings (SB-01 through SB-09) at the Site. The borings were advanced using direct-push methods. Soil samples were collected continuously in each boring using macro-core sampling tools, until a depth of 15-feet below ground surface (BGS), or until refusal. Field examination and headspace analysis was performed using a photoionization detector (PID) on soils collected from each respective three-foot or five-foot macro-core sample. The purpose of the headspace analysis was to screen for volatile vapors. Soil samples were collected from each of the nine (9) borings and placed in laboratory-supplied containers.

One (1) sample from each of six (6) borings, based upon observations and/or PID screening results, was submitted for laboratory analysis. Samples were analyzed for STARS-list volatile organic compounds (VOCs) using USEPA method 8260 (one of the samples was submitted for full-list VOCs analysis, based upon field observations), and STARS-list semi-volatile organic compounds (SVOCs) using USEPA method 8270.

Surface Soils

The northern lot was divided into four (4) approximately equal plots, where composited surface soil samples were collected (each composite sample was comprised of 4 discrete grab locations within the plot).

The four (4) composited surface soil samples were submitted to the laboratory for analysis of STARS-list SVOCs via USEPA method 8270, PCBs by USEPA method 8082, and RCRA 8 metals via USEPA method 6010/7471.

Soil Piles

AECC identified two (2) soil piles to be sampled during site investigative activities. However, significant snow cover limited complete visual review of the Site, and additional soil pile(s) may be present that could require sampling at a later date, if present.

The soil pile samples were placed in coolers and shipped via FedEx to Eurofins/Spectrum Analytical, Inc. in Agawam, Massachusetts for analysis of STARS-list SVOCs by USEPA method 8270, PCBs by USEPA method 8082, and RCRA 8 metals by USEPA method 6010.

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2.3 GROUNDWATER INVESTIGATION

Groundwater investigation involved the installation of four (4) temporary one-inch (1") diameter monitoring wells (at soil boring locations SB-01, SB-03, SB-05, and SB-07) the collection of a groundwater sample from each well. Temporary well locations were based upon PID readings, field observations, and the information reviewed in the previous investigation (Plumley report).

On January 8, 2018, 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 from each monitoring well and stored in laboratory-supplied containers. Groundwater samples were handled under the same protocol as the soil samples.

Groundwater samples were analyzed for full-list VOCs using USEPA method 8260 and STARS-list SVOCs via USEPA method 8270.

Each well was allowed to rest for approximately 96-hours prior to sampling. AECC personnel gauged the wells for depth to water (DTW) and to determine if any free product accumulated in the wells during the rest period.

On January 8, 2017, AECC personnel used a low-flow peristaltic pump to purge approximately three (3) calculated well volumes from each well. After purging each well volume, a multi-function water quality meter was used to record field parameters, including: temperature, pH, specific conductance, dissolved oxygen, redox potential, and turbidity. Once field parameters stabilized, the groundwater was transferred directly from the end of the pump tubing into laboratory-supplied vials and plastic bottles (with appropriate preservative chemicals, as necessary). Once collected, the groundwater samples were labeled, logged, placed on ice, and shipped via FedEx under strict chain-of-custody procedures to Eurofins/Spectrum Analytical, Inc. in Agawam, Massachusetts.

2.4 SUPPLEMENTAL GROUNDWATER INVESTIGATION

Based upon the findings of AECC's initial investigation activities, supplemental investigation activities were performed at the Site on February 7 and 8, 2018. The purpose of the supplemental investigation was to further define the nature and extent of groundwater contamination at the Site.

The supplemental soil investigation included the advancement of five soil borings (SB-10 through SB-14) and installation of three temporary one-inch (1") diameter monitoring wells (at soil boring locations SB-12, SB-13, and SB-14). AECC followed the protocols established for the initial investigation activities, except each well was allowed to rest for approximately 24-hours prior to sampling in order to meet time constraints.

Groundwater samples from each of the three wells were analyzed for STARS-list VOCs using USEPA method 8260. One groundwater sample was analyzed for lead via USEPA method 6010.

Soil samples were not analyzed since the initial investigation revealed that soils were not significantly contaminated (i.e. – contamination appeared to be dissolved in groundwater).

3.0 FIELD OBSERVATIONS

Field activities associated with AECC's investigation were conducted at the Site in early January 2018 and have been summarized below:

3.1 SOIL INVESTIGATION

The subsurface conditions were generally typified by the presence of a thick layer of peat with an earthy odor found between 3-feet to 12-feet bgs. Some medium and coarse sands were also interspersed, and coarser material was generally found around the level of the groundwater table (approximately 11 feet bgs).

Petroleum odors were detected in several borings during the soil screening process. In addition, PID response (indicative of soil contamination) was recorded during headspace analysis, as summarized below:

Boring ID	Peak PID Reading (ppm)	Depth of Associated Reading
SB-01	0.6	12 – 15'
SB-02	665	9 – 12'
SB-03	2.7 443	3 – 6' 9 – 12'
SB-04	0.5	10 – 15'
SB-05	0.1	10 – 15'
SB-06	0.0	N/A
SB-07	13.2	0 – 3'
SB-08	1.4	0 – 3'
SB-09	0.3	0 – 3'
SB-10	3.7	12 – 15'
SB-11	2.5 10.8	0.5 – 5' 13 – 15'
SB-12	55.8	10 – 15'
SB-13	2,452 1,823	10.5 – 12' 12 – 15'
SB-14	1,950	10 – 15'

For a complete description of the soil profile and a summary of PID headspace readings at each boring location, please refer to the soil boring logs presented in Attachment A.

Prior to leaving the Site, the borings were backfilled with boring cuttings and/or sand. Temporary wells will remain in place at the Site until it is determined that they are no longer useful.

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3.2 GROUNDWATER INVESTIGATION & SAMPLING

Eight temporary monitoring wells constructed of a 10-foot section of one-inch (1") diameter, 0.10-inch slotted screen, and approximately 6-feet of one-inch (1") diameter threaded riser (where necessary), were installed at soil boring locations SB-01, SB-03, SB-05, SB-07, SB-12, SB-13, and SB-14. Temporary Well TW-05 was installed during Plumley's previous investigation (B-5/TW). The locations of the temporary monitoring wells are shown on Figure 1. Note that groundwater is not used on the property as it is serviced with municipal water.

The groundwater quality parameters observed / measured at each well are presented in Table 7. In summary:

- Groundwater typically ranged from approximately 9 to 11 feet bgs. Shallower depth-to-groundwater (approximately 3 to 5 feet bgs) was encountered at TW-03 and TW-04; which may be due to a perched water table and/or leaking municipal water lines near these locations.
- Groundwater within wells TW-03, TW-06, and TW-07 was very turbid (error reading on meter). In the remaining five wells, turbidity ranged from 10.9 to 67.8 NTU.
- The wells provided ample water, with a maximum drawdown during purging of 0.6 feet.
- A thick, sludgy material was observed at the bottom of well TW-03. Purging efforts were unable to clear the sludgy material from the well column. As a result, groundwater parameters were not measured at TW-03.
- The measured depth to groundwater in well TW-05 on January 8, 2018 was 11.18' bgs, while the total well depth was approximately 18.2' bgs (some sediment appeared to have settled at the bottom of the well).

3.3 DETERMINATION OF GROUNDWATER FLOW

On January 18, 2018, AECC personnel collected surface elevation and well riser elevations relative to a benchmark (a steel support beam inside the vacant middle portion of the Facility). Using this information, along with depth to groundwater measurements collected during well sampling activities on January 8, groundwater elevations were calculated for each well.

Discounting what appears to be anomalous depth to groundwater measurements on the western and eastern portion of the Site (TW-03 and TW-04), it appears that groundwater levels are relatively flat across the measurable portion of the Site. However, this groundwater flow determination was not definitively determined due to the limited number of wells and their incomplete distribution across the Site.

The generally flat contours determined across the center of area surveyed during this investigation is similar to the data obtained by Plumley during their 2016 Investigation. Subsequent survey to include data from other Plumley wells that remain at the Site or on the parcel south of the Site may provide further detail to definitively establish groundwater trends if such information was necessary for the redevelopment of the property.

The anomalous groundwater elevations encountered could be explained by a perched water table and/or by subsurface building foundation elements (since portions of the data obtained during this investigation came from directly beneath the building structure, which could impact groundwater depth).

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3.4 SURFACE SOILS / SOIL PILES

Surface soils were generally comprised of a dark brown fine gravel, with some coarser gravel fragments interspersed, along with slag. Some organic material (vegetation roots) permeated up to 6" deep.

The soil piles appeared to be of a similar material to surface soils, but were generally more coarse and less organic material was present.

No odors, staining, or PID response were noted during surface soil sample screening / collection or during soil pile sample screening / collection activities.

3.5 ADDITIONAL OBSERVATIONS OF CONCERN – NOT IN SCOPE

The following environmental concerns were noted, but were not included in the Scope of this Phase II ESA:

- AECC was informed that the vaulted petroleum storage tank adjacent to the boiler room had been cut open and cleaned, and that adjacent areas had been cleaned, by a contracted environmental firm. While this area appeared significantly cleaner than during AECC's previous site reconnaissance (October 2017), residual staining remains present within the boiler room and an adjacent storage room. Petroleum odors still linger in these areas. AECC was not provided with a report or assessment of the cleanup from the firm that performed the cleanup work associated with these locations.

- AECC noted the presence of approximately 12 glass jars, some intact while other had fallen and spilled their contents, on the uppermost mezzanine area of the facility. Labels on the jars were mostly incomplete or illegible. Labels that could be discerned indicated that the chemicals are likely dyes, or other chemicals formerly used in textile production. Please refer to AECC's Phase I ESA report for further details.

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4.0 LABORATORY ANALYTICAL RESULTS

Soil sample analysis results were compared to applicable Unrestricted Use, Restricted Residential Use (intended use of the Site), and Industrial (current use of the Site) Soil Cleanup Objectives (SCOs) 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 applicable NYSDEC standards / guidance values are presented in the Tables section of this report (Tables 1 through 6). The complete laboratory analysis report is presented as Attachment B.

4.1 SURFACE SOILS & SOIL PILES

Surface Soils

The northern lot was subdivided into four (4) regions, as described in Section 2.2, for composite sampling. The sample identifications correspond to the following table, and are also shown on Figure 1:

SURF-04 (Northwest)	**SURF-02** (Northeast)
SURF-03 (Southwest)	**SURF-01** (Southeast)

SVOCs were detected at concentrations that exceed their respective Unrestricted Use SCOs from samples SURF-01 and SURF-03 (southern half of the lot). In addition to exceeding the Unrestricted Use SCO, several SVOCs exceeded their respective Restricted Residential Use RSCO, and the chemical compound benzo(a)pyrene was detected at a concentration that exceeds its Industrial Use RSCO. No SVOCs were detected at concentrations that exceed their respective Unrestricted Use SCOs from samples SURF-02 and SURF-04 (northern half of the lot).

No PCBs were detected in the SURF-02 soil sample above below the unrestricted use SCO. No PCBs were detected in the SURF-01, SURF-03, or SURF-04 samples.

Multiple metals (mercury, barium, and lead) were detected at concentrations that exceed their respective Unrestricted Use SCOs from samples SURF-01 and SURF-03, while only mercury was detected at a concentration that exceeded its respective Unrestricted Use SCO in samples SURF-02 and SURF-04. No metals exceeded their respective Restricted Residential or Industrial RSCOs.

Soil Piles

AECC identified two (2) soil piles in the northern lot. Soil Pile 01 is a small berm that spans along the southern portion of the lot. Soil Pile 02 is located amongst the trees lining the eastern edge of the lot.

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The sampling results of Soil Pile 01, which stretches across portions of surface soil plot areas SURF-01 and SURF-03, were similar to the sampling results of SURF-01 and SURF-03. Metals did not exceed the Unrestricted Use SCO, but multiple SVOCs were detected at concentrations that exceed their Unrestricted Use SCO, and in some instances, the Restricted Residential RSCO. Like SURF-01 and SURF-03, benzo(a)pyrene was detected at a concentration that exceeds the Industrial Use RSCO from Soil Pile 01. A trace concentration of PCBs was detected from the Soil Pile 01 sample, but at a concentration that does not exceed the Unrestricted Use SCO.

The analytical results of the sample composited from Soil Pile 02 exhibited elevated concentrations of contaminants as compared to Soil Pile 01 and the surface soil samples. Chromium and lead were detected at concentrations that exceeded their respective Unrestricted Use SCOs. Multiple SVOCs were detected above their respective Unrestricted Use SCOs, several exceeded their Restricted Residential Use RSCO, and the compounds benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene exceeded their respective Industrial Use RSCO. The total concentration of SVOCs detected in Soil Pile 02 equals 131.81 ppm. For comparison, the total quantity of detected SVOCs from all surface soil samples and Soil Pile 01 ranged from 1.92 to 25.44 ppm. Trace amounts of PCBs were detected in the Soil Pile 02 sample, but at concentrations below the Unrestricted Use SCO.

4.2 SUBSURFACE SOILS

VOCs

No VOCs were detected above laboratory detection limits from soil samples SB-05 or SB-09. A trace quantity of benzene was detected in soil sample SB-01, but at a concentration below the Unrestricted Use SCO for benzene. The compound 1,2,4-trimethylbenzene was detected in soil sample SB-07, but at a concentration below its respective Unrestricted Use SCO.

The following VOCs were detected at concentrations that exceed their respective Unrestricted Use SCO (but not their Restricted Residential Use or Industrial RSCOs) from soil samples SB-02 and SB-03:

- Isopropylbenzene
- n-Propylbenzene
- 1,2,4-trimethylbenzene
- Xylene
- Ethylbenzene (*SB-03 only)

SVOCs

No SVOCs were detected above laboratory detection limits from soil sample SB-01. Multiple SVOCs were detected in soil samples SB-05 and SB-07, but at concentrations that do not exceed their respective Unrestricted Use SCOs.

Trace quantities of multiple SVOCs were detected in soil samples SB-02 and SB-03, but only the concentration of 2-methylnaphthalene exceeded its respective Unrestricted Use SCO (but not its respective Restricted Residential or Industrial Use RSCO).

Multiple SVOCs were detected at concentrations exceeding their respective Unrestricted Use SCOs in the SB-09 soil sample. Several of these SVOCs also exceeded their Restricted Residential Use RSCO, and benzo(a)pyrene exceeded its Industrial Use RSCO.

4.3 GROUNDWATER

VOCs

No VOCs were detected above laboratory detection limits from groundwater samples TW-01, TW-03, or TW-04.

The concentrations of VOCs detected in the shared Plumley/AECC well dropped significantly. In Fall 2016, the total concentration of VOCs was 773.4 ppb and 12 individual compounds exceeded their respective GWS. AECC's re-sampling of the well detected a total VOC concentration of 24 ppb and two (2) individual compounds exceeded their respective GWS.

Groundwater contamination was encountered at TW-02, where 10 individual compounds were detected above their respective GWS. The total concentration of VOCs detected in sample TW-02 was 463.25 ppb, with the primary contaminant being 1,2,4-trimethylbenzene.

AECC performed the supplemental investigation in response to the groundwater analysis results of the sample collected from TW-02. Significant groundwater contamination was encountered at all three temporary wells installed and sampled during supplemental activities (TW-06, TW-07, and TW-08). The total concentration of VOCs detected in these samples was 88.7 ppb, 693.1 ppb, 275.3 ppb, respectively; and a total of 5, 11, and 8 individual compounds were detected above their respective GWS from the samples, respectively.

No chlorinated compounds were detected in the groundwater collected from any of the wells installed during the original investigation. Therefore, AECC did not have the samples collected during the supplemental investigation analyzed for chlorinated compounds.

SVOCs

No SVOCs were detected above laboratory detection limits from any of the five (5) groundwater samples collected by AECC during this investigation, which included the re-sampling of one off-site Plumley well that had been installed and sampled in 2016 (Plumley well B-5/TW, AECC well TW-05). For comparison, during Plumley's sampling, naphthalene was detected at a concentration of 65.8 ppb (exceeding the GWS of 10 ppb), but naphthalene was not detected in the sample collected from the same well by AECC.

Metals

AECC analyzed the TW-08 groundwater sample for lead since the results from Plumley's investigation revealed elevated concentrations of lead in the groundwater sample collected from well B-5/TW, which suggested the source of the contamination could be leaded gasoline.

No lead was detected in the sample submitted for analysis from TW-08.

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5.0 SUMMARY AND CONCLUSIONS

Surface Soils & Soil Piles

Surface soils on the northern lot are contaminated by various metals and SVOCs, and the contamination appears more prevalent on the southern half of the lot, nearer the main portion of the building / Facility. If these soils are disturbed during Site re-development activities, the soils should be screened and managed by an environmental professional, as the soil may require off-site disposal. Based upon the orientation of Soil Pile 01 (berm along the southern edge; potentially created by snow-plowing activities or used as a source for topping the lot) and the similarity of analytical results between it and the surface soil samples collected in the vicinity, Soil Pile 01 can be managed along with the surface soils in the area.

Soil Pile 02, located on the eastern portion of the lot, appears to be a separate material from the remainder of the surface soils based upon analytical results. Soil Pile 02 is more discrete and in a location that would likely not cause it to be created by other site activities. Soil Pile 02 should be removed from the Site in accordance with proper environmental management protocols.

Management of such soils is routine in urban settings, but does require proper handling, transportation, and disposal (if necessary).

Gasoline Contamination

Field observations (odors and PID readings) and laboratory analytical results indicate that dissolved-phase gasoline contamination exists in the southeastern corner of the Site, and extends off-site to the south. Although some individual VOC concentrations in soils exceeded Unrestricted SCOs, no concentrations exceeded their respective Restricted Residential SCOs. Therefore, it appears the gasoline contamination is dissolved within groundwater, and soils reflect nuisance conditions as noted by odors and PID readings.

Based on the results of the Plumley and AECC investigations, groundwater flow appears to flow towards the west or northwest at a very shallow gradient.

A point-source of the contamination has not been identified during the course of this investigation. However, based on the concentrations of contaminants and PID readings, likely candidates would be a gasoline UST located either 1) beneath the wooden loading dock adjacent to the southern wall of the factory building, or 2) to the north of the area investigated to-date (i.e. - north of SB-13/TW-07 and SB-02). Therefore, AECC recommends that wells be installed to the north of SB-13/TW-07 and SB-02. If this investigation verifies that the source of the gasoline contamination is not located to the north, AECC recommends that the wooden loading dock be removed, and additional GPR and/or exploratory digging (where feasible) be performed in the area in an attempt to locate an underground tank or other source of contamination. AECC advised the property Owner of the contamination and recommended that the condition be reported to the NYSDEC Spill Hotline.

Although previous sampling at the Site suggested lead may be a concern in relation to this plume of VOC contamination, the sampling performed during this supplemental investigation indicates that lead is not a concern (not detected in the groundwater sample collected at TW-08).

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Boiler Room and adjacent Storage Room – Residual Oil Cleanup

Residual staining and odors and discrete areas of free product remain despite previous cleanup efforts in the boiler room and adjacent storage room area. AECC recommends further cleaning of these areas by an environmental remediation firm.

Suspected Fuel Oil Contamination – Shallow Subsurface Soil

Field observations and analytical data collected from shallow subsurface soils beneath the concrete building slab in and around the former boiler room and petroleum storage tank (within the Facility) suggest a second, separate, contamination source is present. This contamination appears to be from a heavier petroleum compound (fuel oil) and exists at shallower soil depths than the gasoline contamination previously discussed. These findings were anticipated given the fuel oil spill observed in the boiler room in October 2017, as previously discussed.

The contamination appears to be confined to an area bounded by SB-12 to the south, SB-02 and SB03 to the west. Although the soil and groundwater analysis results from SB-07/TW-03 (to the north) did not detect SVOCs, the soils exhibited nuisance characteristics (odors and staining, and a thick sludgy material). Further delineation of the extent of shallow fuel oil contamination to the east is complicated by existing boiler room equipment and the eastern property line.

Since no SVOCs were detected in groundwater collected from wells TW-02, TW-03, and TW-06, it appears the fuel oil contamination is limited to soils, and has not dissolved within groundwater.

Vapor Intrusion

Soils and groundwater exhibiting petroleum odors and elevated PID readings exist beneath the on-Site factory building and off-Site warehouse building. Therefore vapor intrusion is a concern. AECC recommends that a vapor intrusion investigation be performed and/or a sub-slab vapor mitigation system be installed during Site redevelopment activities.

3rd Floor / Mezzanine – Chemical Jar Cleanup

Representative samples of the unidentified/unknown chemicals (presumed dyes and related compounds) should be collected so that they can be properly characterized. Once properly characterized, the area should be cleaned and the chemicals properly disposed of in accordance with state and federal regulations prior to occupancy of the area.

Reporting

The Owner of the Site has been notified of the two apparent petroleum spills (fuel oil and gasoline) at the Site. It is our professional opinion that the Owner is required to report the spills to the NYSDEC (Spill Hotline Number: 1-800-457-7362); but the Owner can contact their legal counsel to discuss this requirement. Future cleanup / management options should comply with NYSDEC requirements and provide proper management and handling of contaminated media.

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

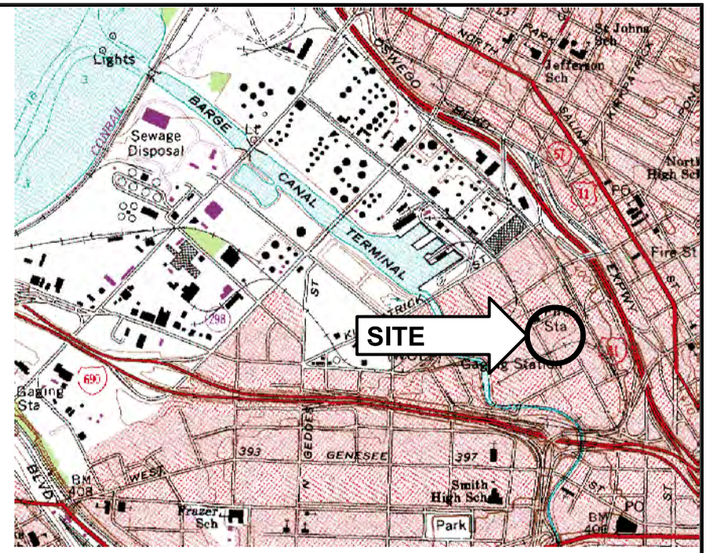
If you have any questions regarding the information presented in this report, please feel free to contact AECC's office at your convenience.

Sincerely,
Asbestos & Environmental Consulting Corporation

Richard D. McKenna
Project Manager

Asbestos & Environmental Consulting Corp. ~ 6308 Fly Road, East Syracuse, NY 13057 ~ (315) 432-9400 ~ (315) 432-9405 fax

FIGURES



SITE LOCATION

LEGEND:

- PROPERTY LINE
- SB-#▲ — AECC SOIL BORING LOCATION
- SB-#/TW-# — AECC SOIL BORING/TEMPORARY WELL INSTALLATION
- ○ — AECC DISCRETE SURFACE SOIL SAMPLE LOCATION
- B-#/TW — APPROXIMATE PLUMLEY SOIL BORING/ TEMPORARY WELL INSTALLATION
- SURFACE SOIL COMPOSITING AREA

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON 2017 ONONDAGA COUNTY TAX MAP.
3. ALL LOCATIONS ARE APPROXIMATE.

0 45' 90'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

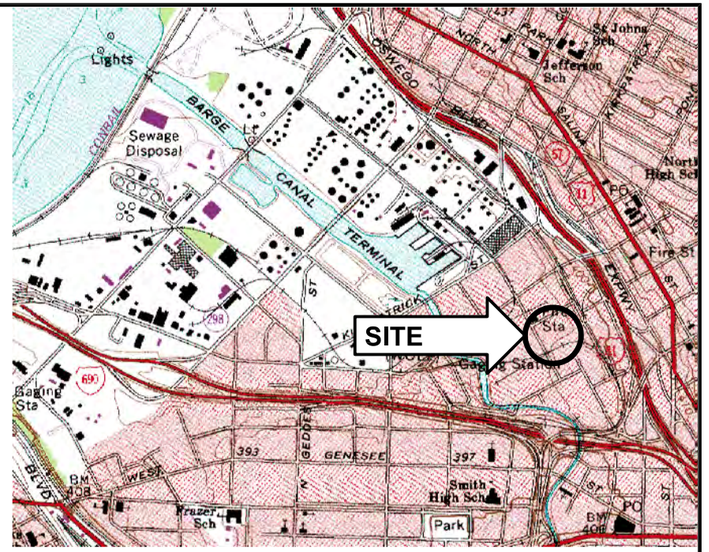
PROJECT NO. 17-258
DRAWN: JAN. 2018
DRAWN BY: HS
CHECKED BY: RM

SAMPLE LOCATION AND SITE PLAN

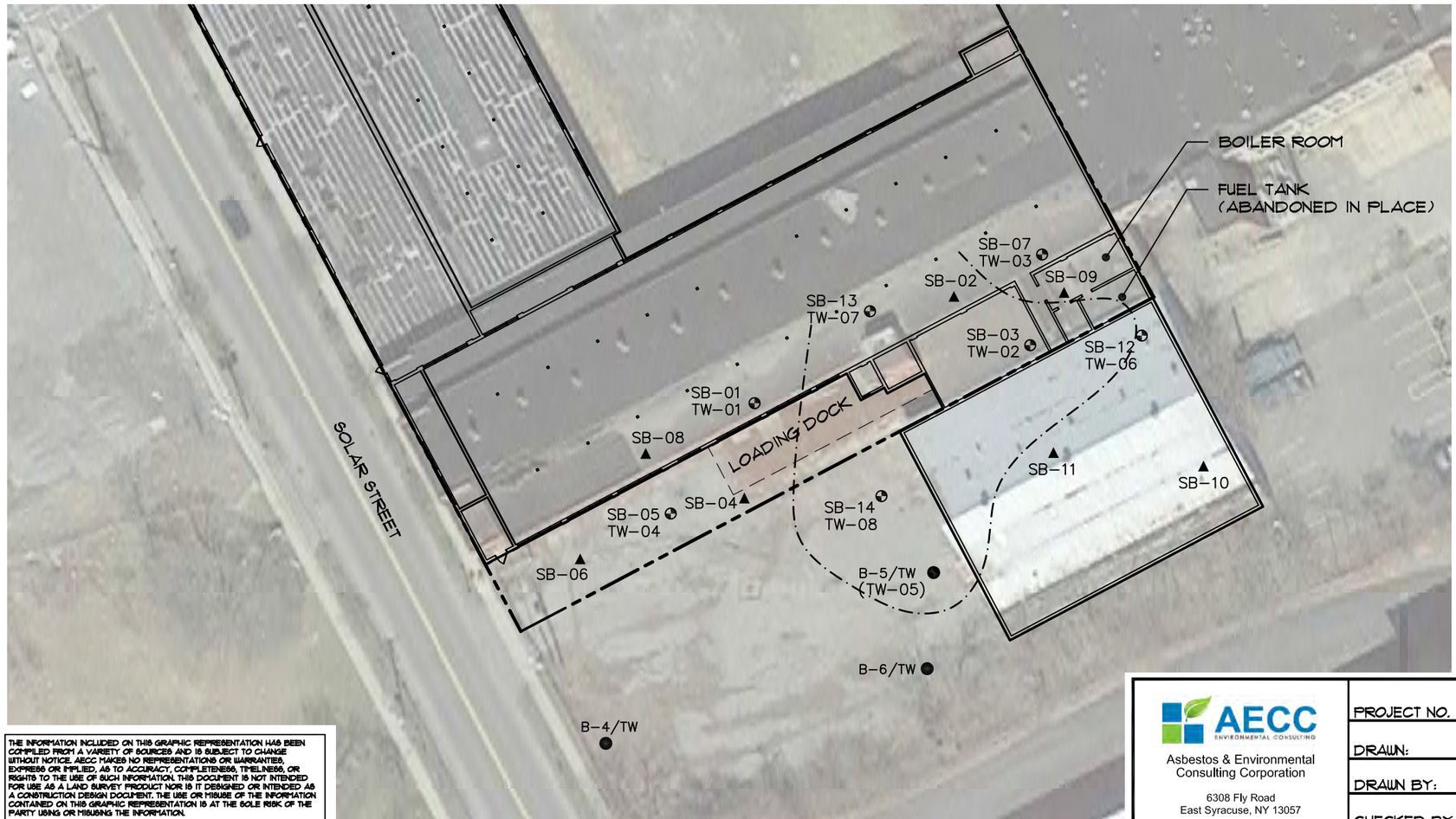
SYRACUSE SCALE
156-158 SOLAR STREET
SYRACUSE, NEW YORK

FIGURE
1

Boring / Well ID		Highest PID Reading (ppmV) in Region of Observed Contamination	Total Concentration of VOCs Detected in Groundwater (ppb)	Number of Individual Compounds Detected at Concentrations that Exceed Their Respective GWS
SB-01	TW-01	0.6	0.0	0
SB-02	-	665	N/A	N/A
SB-03	TW-02	443	463.3	10
SB-04	-	0.5	N/A	N/A
SB-05	TW-04	0.1	0.0	0
SB-06	-	0.0	N/A	N/A
SB-07	TW-03	N/A	0.0	0
SB-08	-	0.0	N/A	N/A
SB-09	-	N/A	N/A	N/A
B-5	TW-05	N/A	24.0	2
SB-10	-	3.7	N/A	N/A
SB-11	-	10.8	N/A	N/A
SB-12	TW-06	55.8	88.7	5
SB-13	TW-07	2,452	693.1	11
SB-14	TW-08	1,950	275.3	8



SITE LOCATION



LEGEND:

- FUTURE PROPERTY LINE
- SB-#▲ AECC SOIL BORING LOCATION
- SB-#◒ TW-# AECC SOIL BORING/TEMPORARY WELL INSTALLATION
- ○ AECC DISCRETE SURFACE SOIL SAMPLE LOCATION
- ● B-#/TW APPROXIMATE PLUMLEY SOIL BORING/ TEMPORARY WELL INSTALLATION
- INFERRED EXTENT OF GASOLINE CONTAMINATION IN GROUNDWATER

NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH WEBSITE.
2. APPROXIMATE PROPERTY LINE BASED ON 2017 ONONDAGA COUNTY TAX MAP.
3. ALL LOCATIONS ARE APPROXIMATE.

0 45' 90'

GRAPHIC SCALE

AECC ENVIRONMENTAL CONSULTING
Asbestos & Environmental Consulting Corporation
6308 Fly Road
East Syracuse, NY 13057

PROJECT NO. 17-258
DRAWN: FEB. 2018
DRAWN BY: HS
CHECKED BY: RM

EXTENTS OF CONTAMINATION

SYRACUSE SCALE
156-158 SOLAR STREET
SYRACUSE, NEW YORK

FIGURE
2

TABLES

GENERAL NOTES / LEGEND

BRL - Below Reportable Limit (non-detect)

SCO - Unrestricted Soil Cleanup Objective per 6 NYCRR 375, Table 375-6.8(a) and/or the lowest of the three values for protection of groundwater, ecological resources, and public health as presented in 6 NYCRR 375, Table 375-6.8(b)

RSCO - Restricted Soil Cleanup Objective per 6 NYCRR 375, Table 375-6.8(b) and NYSDEC Soil Cleanup Guidance Policy 51 Tables 1, 2, and 3

GWS - Groundwater effluent (Class GA) guidance value or standard per NYSDEC Technical and Operational Guidance Series (1.1.1)

OCS - Onondaga County Department of Water Environment Protection Daily Allowable Effluent Concentration Limitation

NS - No SCO/RSCO or GWS for this compound

NA - Sample not analyzed for this compound

J - Estimated concentration

D Data Reported from a Dilution

RE Results reported are from reanalysis of sample due to original analysis being outside acceptable laboratory quality control standards

Thick-Lined Box	*Compound concentration exceeds the Unrestricted Use SCO*
Box + Bold	*Compound concentration exceeds the Restricted Residential Use RSCO*
Box + Bold + Shading	*Compound concentration exceeds the Industrial Use SCO or the applicable GWS*

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

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARDS			SAMPLE IDENTIFICATION / DATE											
					Plumley Investigation					AECC Investigation						
Volatile Organic Compounds	CAS No.	Unrestricted SCO	Restricted Residential RSCO	Industrial RSCO	B-2 (16-20')	B-4 (4-8')	B-5 (12-16')	B-6 (12-16')	B-3 (4-8')	SB-01	SB-02[D]	SB-03[D]	SB-05	SB-07	SB-09
					10/27/2016	10/27/2016	10/27/2016	10/27/2016	10/27/2016	1/3/2018	1/3/2018	1/3/2018	1/3/2018	1/4/2018	1/4/2018
					Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	6	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Acetone	67-64-1	0.05	100	1000	BRL	0.0217	BRL	BRL	0.0234	NA	NA	BRL	NA	NA	NA
Acrylonitrile	107-13-1	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Benzene	71-43-2	0.06	4.8	89	BRL	BRL	BRL	BRL	BRL	0.0037	BRL	BRL	BRL	BRL	BRL
Bromobenzene	108-86-1	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Bromochloromethane	74-97-5	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Bromodichloromethane	75-27-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Bromoform	75-25-2	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Bromomethane	74-83-9	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
2-Butanone (MEK)	78-93-3	0.12	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
n-Butylbenzene	104-51-8	12	100	1000	BRL	0.0309	1.07	0.862	BRL	BRL	5.74	3.43	BRL	BRL	BRL
sec-Butylbenzene	135-98-8	11	100	1000	BRL	0.0826	0.794	0.88	BRL	BRL	3.29	2.07	BRL	BRL	BRL
tert-Butylbenzene	98-06-6	5.9	100	1000	BRL	0.009	BRL	0.386	BRL	BRL	0.73	0.569	BRL	BRL	BRL
Carbon disulfide	75-15-0	2.7	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Carbon tetrachloride	56-23-5	0.76	2.4	44	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Chlorobenzene	108-90-7	1.1	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Chloroethane	75-00-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Chloroform	67-66-3	0.37	49	700	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Chloromethane	74-87-3	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
2-Chlorotoluene	95-49-8	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
4-Chlorotoluene	106-43-4	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Dibromochloromethane	124-48-1	10	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,2-Dibromoethane (EDB)	106-93-4	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Dibromomethane	74-95-3	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1.1	100	1000	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2.4	49	560	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1.8	13	250	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Dichlorodifluoromethane (Freon12)	75-71-8	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,1-Dichloroethane	75-34-3	0.27	26	480	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,2-Dichloroethane	107-06-2	0.02	3.1	60	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,1-Dichloroethene	75-35-4	0.33	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
cis-1,2-Dichloroethene	156-59-2	0.25	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
trans-1,2-Dichloroethene	156-60-5	0.19	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,2-Dichloropropane	78-87-5	700	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,3-Dichloropropane	142-28-9	0.3	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
2,2-Dichloropropane	594-20-7	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,1-Dichloropropene	563-58-6	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Ethylbenzene	100-41-4	1	41	780	BRL	BRL	1.1	BRL	BRL	BRL	0.832	3.65	BRL	BRL	BRL
Hexachlorobutadiene	87-68-3	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
2-Hexanone (MBK)	591-78-6	NS	NS	NS	BRL	BRL	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Isopropylbenzene	98-82-8	2.3	NS	NS	BRL	0.0126	0.976	0.634	BRL	BRL	4.42	2.62	BRL	BRL	BRL
4-Isopropyltoluene	99-87-6	10	NS	NS	BRL	BRL	1.28	0.46	BRL	BRL	5.26	3.22	BRL	BRL	BRL
Methyl tert-butyl ether	1634-04-4	0.93	100	1000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
4-Methyl-2-pentanone (MIBK)	108-10-1	1	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Methylene chloride	75-09-2	0.05	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Naphthalene	91-20-3	12	NS	NS	BRL	BRL	3.42	0.375	BRL	BRL	9.37	5.57	BRL	BRL	BRL
n-Propylbenzene	103-65-1	3.9	100	1000	BRL	0.0099	1.57	1.16	BRL	BRL	7.12	4.28	BRL	BRL	BRL
Styrene	100-42-5	300	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	0.6	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Tetrachloroethene	127-18-4	1.3	19	300	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Toluene	108-88-3	0.7	100	1000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1,2,3-Trichlorobenzene	87-61-6	20	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	3.4	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,3,5-Trichlorobenzene	108-70-3	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	0.68	100	1000	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Trichloroethene	79-01-6	0.47	21	400	BRL	0.0287	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
Trichlorofluoromethane (Freon 11)	75-69-4	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	0.34	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,2,4-Trimethylbenzene	95-63-6	3.6	52	380	BRL	BRL	7.46	BRL	BRL	BRL	38	22.6	BRL	0.0026	BRL
1,3,5-Trimethylbenzene	108-67-8	8.4	52	380	BRL	BRL	BRL	BRL	BRL	BRL	0.499	0.841	BRL	BRL	BRL
Vinyl chloride	75-01-4	0.02	0.9	27	BRL	BRL	BRL	BRL	BRL	NA	NA	BRL	NA	NA	NA
m,p-xylene	17960123-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	0.596	1.23	BRL	BRL	BRL
o-xylene	95-47-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	0.295	0.342	BRL	BRL	BRL
Total Xylenes	N/A	0.26*	100*	1000*	BRL	BRL	BRL	BRL	BRL	BRL	0.891	1.572	BRL	BRL	BRL
Tetrahydrofuran	109-99-9	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Ethyl ether	60-29-7	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
tert-amyl methyl ether	994-05-8	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Ethyl tert-butyl ether	637-92-3	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Di-isopropyl ether	108-20-3	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
tert-Butanol / butyl alcohol	75-65-0	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
1,4-Dioxane	123-91-1	0.1	13	250	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Ethanol	64-17-5	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	BRL	NA	NA	NA
Total VOC's	-	NS	NS	NS	0.00	0.20	17.67	4.76	0.02	0.00	76.15	50.42	0.00	0.00	0.00

Notes:
All concentrations in milligrams per kilogram (mg/kg or approximate parts per million - ppm)
** - SCO/RSCO value represents total xylenes*

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

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARDS			Plumley Investigation			AECC Investigation					
Semi-Volatile Organic Compounds	CAS No.	Unrestricted SCO	Restricted Residential RSCO	Industrial RSCO	B-4 (4-8')	B-5 (12-16')	B-6 (12-16')	SB-01	SB-02	SB-03	SB-05	SB-07	SB-09[D]
					10/27/2016	10/27/2016	10/27/2016	1/3/2018	1/3/2018	1/3/2018	1/3/2018	1/4/2018	1/4/2018
Base Neutrals					Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Acenaphthene	83-32-9	20	100	1000	BRL	0.233	0.194	BRL	0.409	0.177	BRL	BRL	0.681 J
Acenaphthylene	208-96-8	100	100	1000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Anthracene	120-12-7	100	100	1000	BRL	0.123	0.145	BRL	0.202	0.0923	0.0643 J	0.0557 J	1.54
Benzo (a) anthracene	56-55-3	1	1	11	BRL	BRL	BRL	BRL	0.14	0.0686 J	0.136	0.364	**4.38**
Benzo (a) pyrene	50-32-8	1	1	1.1	BRL	BRL	BRL	BRL	0.07 J	0.0376 J	0.12	0.379	**5.07**
Benzo (b) fluoranthene	205-99-2	1	1	11	BRL	BRL	BRL	BRL	0.0445 J	0.0357 J	0.112	0.34	**5.27**
Benzo (g,h,i) perylene	191-24-2	100	100	1000	BRL	BRL	BRL	BRL	BRL	BRL	0.0647 J	0.229	2.87
Benzo (k) fluoranthene	207-08-9	1	3.9	110	BRL	BRL	BRL	BRL	0.0506 J	BRL	0.0818 J	0.342	3.89
Chrysene	218-01-9	1	3.9	110	BRL	BRL	BRL	BRL	0.111	0.0591 J	0.127	0.414	**4.71**
Dibenzo (a,h) anthracene	53-70-3	0.33	0.33	1.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.0704 J	**0.981**
Fluoranthene	206-44-0	100	100	1000	0.176	0.138	0.202	BRL	0.254	0.137	0.329	0.619	9.5
Fluorene	86-73-7	30	100	1000	BRL	0.148	BRL	BRL	0.304	0.145	BRL	BRL	0.693 J
Indeno (1,2,3-cd) pyrene	193-39-5	0.5	0.5	11	BRL	BRL	BRL	BRL	BRL	BRL	0.0638 J	0.221	2.98
2-Methylnaphthalene	91-57-6	0.41	NS	NS	NA	NA	NA	BRL	3.56	1.4	BRL	0.0575 J	0.614 J
Naphthalene	91-20-3	12	100	1000	BRL	1.21	BRL	BRL	2	0.625	BRL	BRL	0.547 J
Phenanthrene	85-01-8	100	100	1000	0.237	0.445	0.221	BRL	0.906	0.393	0.278	0.322	7.11
Pyrene	129-00-0	100	100	1000	0.182	0.234	0.321	BRL	0.411	0.207	0.239	0.568	7.03
1-Methylnaphthalene	90-12-0	NS	NS	NS	NA	NA	NA	BRL	2.15	0.737	BRL	0.0428 J	0.484 J
Total SVOC PAH's	-	NS	NS	NS	0.60	2.53	1.08	0.00	10.61	4.11	1.62	4.02	58.35

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

TABLE 3
Surface Soil Analysis Summary
Methods SW-846 8270, 8082, and 6010/7471

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARDS			SAMPLE IDENTIFICATION / DATE / TYPE									
					Plumley Investigation			AECC Investigation						
Semi-Volatile Organic Compounds Base Neutrals	CAS No.	Unrestricted SCO	Restricted Residential RSCO	Industrial RSCO	B-1 (0-2')	B-6 (0-2')	B-7 (0-2')	SURF-01[D]	SURF-02[D]	SURF-03[D]	SURF-04	Soil Pile 01[D]	Soil Pile 02[D]
					10/27/2016	10/27/2016	10/27/2016	1/4/2018	1/4/2018	1/4/2018	1/4/2018	1/2/2018	1/3/2018
					Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite
Acenaphthene	83-32-9	20	100	1000	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1.61 J
Acenaphthylene	208-96-8	100	100	1000	0.219	BRL	0.145	BRL	BRL	BRL	BRL	BRL	BRL
Anthracene	120-12-7	100	100	1000	BRL	BRL	0.29	BRL	0.0887 J	0.316 J	BRL	BRL	4.38
Benzo (a) anthracene	56-55-3	1	1	11	0.352	0.344	0.854	**1.75**	0.393	**2.32**	0.18	**1.35 J**	**10.7**
Benzo (a) pyrene	50-32-8	1	1	1.1	0.352	0.408	0.625	**1.7**	0.391	**2.28**	0.185	**1.23 J**	**9.58**
Benzo (b) fluoranthene	205-99-2	1	1	11	0.364	0.322	0.71	**1.66**	0.379	**2.07**	0.194	**1.16 J**	**11.4**
Benzo (g,h,i) perylene	191-24-2	100	100	1000	0.199	0.25	0.377	0.82	0.218	1.22	0.113	0.754 J	4.79
Benzo (k) fluoranthene	207-08-9	1	3.9	110	0.302	0.332	0.635	1.57	0.307	1.9	0.159	1.24 J	**6.03**
Chrysene	218-01-9	1	3.9	110	0.465	0.31	1.12	1.57	0.393	2.34	0.187	1.22 J	**10.2**
Dibenzo (a,h) anthracene	53-70-3	0.33	0.33	1.1	BRL	BRL	0.152	BRL	0.0615 J	**0.334 J**	0.0326 J	BRL	**1.52 J**
Fluoranthene	206-44-0	100	100	1000	0.637	0.499	1.76	2.79	0.766	4.84	0.321	2.84	24.4
Fluorene	86-73-7	30	100	1000	BRL	BRL	0.128	BRL	BRL	BRL	BRL	BRL	2.13
Indeno (1,2,3-cd) pyrene	193-39-5	0.5	0.5	11	BRL	BRL	0.395	0.962	0.235	1.36	0.113	0.836 J	5.62
2-Methylnaphthalene	91-57-6	0.41	NS	NS	NA	NA	NA	BRL	BRL	0.239 J	BRL	BRL	BRL
Naphthalene	91-20-3	12	100	1000	0.542	BRL	0.387	BRL	BRL	BRL	BRL	BRL	1.65
Phenanthrene	85-01-8	100	100	1000	0.8	0.145	1.7	1.18	0.459	1.76	0.161	1.43 J	19.6
Pyrene	129-00-0	100	100	1000	0.662	0.504	1.46	2.31	0.635	4.25	0.271	2.17	18.2
1-Methylnaphthalene	90-12-0	NS	NS	NS	NA	NA	NA	BRL	BRL	0.21 J	BRL	BRL	BRL
Total SVOC PAH's	-	NS	NS	NS	4.89	3.11	10.74	16.31	4.33	25.44	1.92	14.23	131.81

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

ANALYTES		APPLICABLE STANDARDS			SAMPLE IDENTIFICATION / DATE / TYPE								
					Plumley Investigation					AECC Investigation			
Polychlorinated Biphenyls (PCBs)	CAS No.	Unrestricted SCO	Restricted Residential RSCO	Industrial RSCO	B-1	B-3	B-5	B-6	B-7	SURF-01	SURF-02	SURF-03	SURF-04	Soil Pile 01	Soil Pile 02
					10/27/2016	10/27/2016	10/27/2016	10/27/2016	10/27/2016	1/4/2018	1/4/2018	1/4/2018	1/4/2018	1/2/2018	1/3/2018
					Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite
Aroclor - 1016	12674-11-2	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1221	11104-28-2	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1232	11141-16-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1242	53469-21-9	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1248	12672-29-6	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1254	11097-69-1	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1260	11096-82-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	0.0984	BRL	BRL	0.0209 J	0.0623
Aroclor - 1262	37324-23-5	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Aroclor - 1268	11100-14-4	NS	NS	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
TOTAL PCBs	-	0.1	1	1	BRL	BRL	BRL	BRL	BRL	BRL	0.0984	BRL	BRL	0.0209	0.0623

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

ANALYTES		APPLICABLE STANDARDS			SAMPLE IDENTIFICATION / DATE / TYPE									
					Plumley Investigation					AECC Investigation				
RCRA 8 Metals	CAS No.	Unresticted SCO	Restricted Residential RSCO	Industrial RSCO	B-1	B-3	B-5	B-6	B-7	SURF-01	SURF-02	SURF-03	SURF-04	Soil Pile 01	Soil Pile 02
					10/27/2016	10/27/2016	10/27/2016	10/27/2016	10/27/2016	1/4/2018	1/4/2018	1/4/2018	1/4/2018	1/2/2018	1/3/2018
					Grab	Grab	Grab	Grab	Grab	Composite	Composite	Composite	Composite	Composite	Composite
Arsenic	7440-38-2	13	16	16	5.2	9.9	8.7	3.8	15.2	6.71	6.36	8.42	6.22	5	4.75
Barium	7440-39-3	350	400	10000	60.8	461	298	28.8	150	542	80.5	61	44.2	76.6	184
Cadmium	7440-43-9	2.5	4.3	60	BRL	0.75	BRL	BRL	BRL	1.16	0.732	0.62	0.559 J	1.05	1.42
Chromium	7440-47-3	1 / 30	110 / 180	800 / 6800	14.5	11.7	9.9	8.7	25.9	19.6	8.94	9.54	15.2	13.3	38.6
Mercury	7439-97-6	0.18	0.81	5.7	0.24	0.32	0.088	0.67	0.7	0.237	0.197	0.136	0.207	0.0466	0.141
Lead	7439-92-1	63	400	3900	20.4	243	77.2	20.3	210	199	44.1	88.3	32.1	57.7	131
Selenium	7782-49-2	3.9	180	6800	BRL	4.1	0.96	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Silver	7440-22-3	2	180	6800	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)
** - The SCO for chromium is represented as "hexavalent chromium / trivalent chromium"*

TABLE 4
Groundwater Analysis Summary - VOCs
Method SW-846 8260

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARD	SAMPLE IDENTIFICATION / DATE															
			Plumley Investigation							AECC Investigation								
Volatile Organic Compounds	CAS No.	GWS	B-1/TW	B-2/TW	B-3/TW	B-4/TW	B-5/TW	B-6/TW	B-7/TW	TW-01	TW-02[D]	TW-03	TW-04	TW-05	TW-06	TW-07[D]	TW-08[D]
			11/01/16	11/01/16	11/01/16	11/01/16	11/01/16	11/01/16	11/01/16	01/08/18	01/08/18	01/08/18	01/08/18	01/08/18	02/08/18	02/08/18	02/08/18
1,1,2-Trichlorotrifluoroethane (Freon 113)	76-13-1	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Acetone	67-64-1	50	BRL	28.2	16.8	BRL	42.5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Acrylonitrile	107-13-1	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Benzene	71-43-2	1	BRL	BRL	BRL	BRL	**129**	BRL	BRL	BRL	**16.00**	BRL	BRL	**6.51**	**2.1**	**42.6**	BRL
Bromobenzene	108-86-1	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Bromochloromethane	74-97-5	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Bromodichloromethane	75-27-4	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Bromoform	75-25-2	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Bromomethane	74-83-9	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
2-Butanone (MEK)	78-93-3	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
n-Butylbenzene	104-51-8	5	BRL	BRL	BRL	BRL	**8.4**	BRL	BRL	BRL	**8.25**	BRL	BRL	BRL	2.2	**12.5**	**8.4**
sec-Butylbenzene	135-98-8	5	BRL	BRL	BRL	BRL	**10.8**	BRL	BRL	BRL	**7.70**	BRL	BRL	1.68	2.1	**11.9**	**7**
tert-Butylbenzene	98-06-6	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1.46	0.9 J	BRL	BRL
Carbon disulfide	75-15-0	60	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Carbon tetrachloride	56-23-5	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Chlorobenzene	108-90-7	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Chloroethane	75-00-3	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Chloroform	67-66-3	7	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Chloromethane	74-87-3	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
2-Chlorotoluene	95-49-8	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
4-Chlorotoluene	106-43-4	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.04	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Dibromochloromethane	124-48-1	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2-Dibromoethane (EDB)	106-93-4	0.0004	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Dibromomethane	74-95-3	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	3	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	3	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	3	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Dichlorodifluoromethane (Freon12)	75-71-8	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1-Dichloroethane	75-34-3	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2-Dichloroethane	107-06-2	0.6	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1-Dichloroethene	75-35-4	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
cis-1,2-Dichloroethene	156-59-2	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
trans-1,2-Dichloroethene	156-60-5	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2-Dichloropropane	78-87-5	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,3-Dichloropropane	142-28-9	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
2,2-Dichloropropane	594-20-7	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1-Dichloropropene	563-58-6	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
cis-1,3-Dichloropropene	10061-01-5	0.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
trans-1,3-Dichloropropene	10061-02-6	0.4	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Ethylbenzene	100-41-4	5	BRL	BRL	BRL	BRL	**192**	BRL	BRL	BRL	**75.60**	BRL	BRL	3.11	3.4	**36**	**17**
Hexachlorobutadiene	87-68-3	0.5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
2-Hexanone (MBK)	591-78-6	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Isopropylbenzene	98-82-8	5	BRL	BRL	BRL	BRL	**62.3**	BRL	BRL	BRL	**28.70**	BRL	BRL	**6.26**	**5.5**	**48.1**	**19.5**
4-Isopropyltoluene	99-87-6	5	BRL	BRL	BRL	BRL	**14.7**	BRL	BRL	BRL	**10.10**	BRL	BRL	BRL	3.3	**15.4**	**10.8**
Methyl tert-butyl ether	1634-04-4	10	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Methylene chloride	75-09-2	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Naphthalene	91-20-3	10	BRL	BRL	BRL	BRL	**124**	BRL	BRL	BRL	**53.40**	BRL	BRL	1.9	5.6	**96.1**	**30.6**
n-Propylbenzene	103-65-1	5	BRL	BRL	BRL	BRL	**67.5**	BRL	BRL	BRL	**32.50**	BRL	BRL	3.08	**6.9**	**56.2**	**26.2**
Styrene	100-42-5	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1,2,2-Tetrachloroethane	79-34-5	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Tetrachloroethene	127-18-4	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Toluene	108-88-3	5	BRL	BRL	BRL	BRL	**23.7**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.7 J	8 J	BRL
1,2,3-Trichlorobenzene	87-61-6	5*	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	5*	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,3,5-Trichlorobenzene	108-70-3	5*	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Trichloroethene	79-01-6	5	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Trichlorofluoromethane (Freon 11)	75-69-4	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	0.04	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,2,4-Trimethylbenzene	95-63-6	5	BRL	BRL	BRL	BRL	**70.5**	BRL	BRL	BRL	**217.00**	BRL	BRL	BRL	**37.8**	**352**	**151**
1,3,5-Trimethylbenzene	108-67-8	5	BRL	BRL	BRL	BRL	2.1	BRL	BRL	BRL	BRL	BRL	BRL	BRL	1.2	BRL	BRL
Vinyl chloride	75-01-4	2	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
m,p-xylene	17960123-1	5	BRL	BRL	BRL	BRL	**19.9**	BRL	BRL	BRL	**14.00**	BRL	BRL	BRL	**16.4**	14.3 J	4.8 J
o-xylene	95-47-6	5	BRL	BRL	BRL	BRL	**6**	BRL	BRL	BRL	BRL	BRL	BRL	BRL	0.6 J	BRL	BRL
Tetrahydrofuran	109-99-9	50	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Ethyl ether	60-29-7	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Tert-amyl methyl ether	994-05-8	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Ethyl tert-butyl ether	637-92-3	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Di-isopropyl ether	108-20-3	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Tert-Butanol / butyl alcohol	75-65-0	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
1,4-Dioxane	123-91-1	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
Ethanol	64-17-5	NS	NA	NA	NA	NA	NA	NA	NA	BRL	BRL	BRL	BRL	BRL	NA	NA	NA
TOTAL VOCs	-	-	0.00	28.20	16.80	0.00	773.40	0.00	0.00	0.00	463.25	0.00	0.00	24.00	88.70	693.10	275.30

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
** - Value of 5 ug/L applies to each trichlorobenzene individually. Value of 10 ug/L, applies to the sum of these substances*

TABLE 5
Groundwater Analysis Summary - SVOCs
Method SW-846 8270

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARD	SAMPLE IDENTIFICATION / DATE							
			Plumley Invesitgation			AECC Investigation				
Semi-Volatile Organic Compounds	CAS No.	GWS	B-3/TW	B-5/TW	B-6/TW	TW-01	TW-02	TW-03	TW-04	TW-05
			11/1/2016	11/1/2016	11/1/2016	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018
Acenaphthene	83-32-9	NS	BRL	2.1	BRL	BRL	BRL	BRL	BRL	BRL
Acenaphthylene	208-96-8	NR	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Anthracene	120-12-7	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzo (a) anthracene	56-55-3	0.002	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzo (a) pyrene	50-32-8	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzo (b) fluoranthene	205-99-2	0.002	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzo (g,h,i) perylene	191-24-2	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Benzo (k) fluoranthene	207-08-9	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Chrysene	218-01-9	0.002	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Dibenzo (a,h) anthracene	53-70-3	NS	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Fluoranthene	206-44-0	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Fluorene	86-73-7	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Indeno (1,2,3-cd) pyrene	193-39-5	0.002	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
1-Methylnaphthalene	90-12-0	NA	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
2-Methylnaphthalene	91-57-6	NR	BRL	4.5	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene	91-20-3	10	BRL	**65.8**	BRL	BRL	BRL	BRL	BRL	BRL
Phenanthrene	85-01-8	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Pyrene	129-00-0	50	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
bis(2-chloroethyl)ether	111-44-4	1	BRL	**5.1**	BRL	NA	NA	NA	NA	NA
TOTAL SVOCs	-	-	0	77.5	0	0	0	0	0	0

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

TABLE 6
Groundwater Analysis Summary - Metals
Method SW-846 6010 / 7471

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

ANALYTES		APPLICABLE STANDARD	SAMPLE IDENTIFICATION / DATE			
			Plumley Investigation			AECC Investigation
Metal	CAS No.	GWS	B-3/TW	B-5/TW	B-6/TW	TW-08
			11/01/16	11/01/16	11/01/16	02/08/18
Arsenic	7440-38-2	50	BRL	BRL	BRL	NA
Barium	7440-39-3	2000	110	381	167	NA
Cadmium	7440-43-9	10	BRL	BRL	BRL	NA
Chromium	7440-47-3	100	BRL	BRL	BRL	NA
Lead	7439-92-1	50	BRL	**129**	5.3	BRL
Selenium	7782-49-2	20	BRL	BRL	BRL	NA
Silver	7440-22-4	100	BRL	BRL	BRL	NA
Mercury*	7439-97-5	1.4	BRL	BRL	BRL	NA

Notes:
All concentrations in micrograms per liter (ug/L)/parts per billion (ppb)
**Mercury analyzed by Method SW846 7471B*

TABLE 7
Well Details, Groundwater Quality Parameters, and Observations

Limited Phase II ESA
Syracuse Scale
156-158 Solar St, Syracuse, NY
AECC Project No. 17-258

Parameter	TW-01	TW-02	TW-03	TW-04	TW-05	TW-06	TW-07	TW-08
	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018	2/8/2018	2/8/2018	2/8/2018
Well Depth (feet)	14.69	15.30	8.90	14.38	18.20	14.01	13.95	15.00
Screened Interval (feet bgs)	4.69 to 14.69	5.30 to 15.30	0.00 to 8.90	4.38 to 14.38	Unknown	4.01 to 14.01	3.95 to 13.95	5.00 to 15.00
Depth to Water (feet bgs)	9.34	9.76	3.20	4.92	11.18	9.21	8.82	9.30
Purged Volume (gallons)	2	2	2	2	2	2+	2	1.5
Temperature (°C)	12.27	10.50	N/A*	7.66	11.47	11.66	11.54	5.05
pH	7.17	6.93	N/A*	6.64	6.89	7.17	7.23	7.55
Dissolved Oxygen (mg/L)	0.00	9.54	N/A*	0.00	0.00	0.00	0.00	1.98
Conductivity (mS/cm)	3.39	1.80	N/A*	0.58	3.74	2.69	3.05	0.47
Redox Potential (mV)	-102	1	N/A*	-66	-91	-129	-167	-52
Turbidity (NTU)	67.8	11.7	N/A*	10.9	26.4	NA	NA	28.1
Drawdown (feet)	None	None	N/A*	None	None	0.6	0.1	0.4
Sheen	No	No	No	No	No	No	No	No
Odors	Slight Gasoline	Strong Gasoline	Strong Fuel Oil	None	None	Slight Gasoline	Strong Gasoline	Slight Gasoline

ATTACHMENT A

SOIL BORING LOGS

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-01**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)	*Boring Diameter:*	2"
Date:	January 3, 2018	*Sample Type(s):*	3' MacroCore Sleeves	*Ground Elevation:*	
Time Start:	1242	*Monitoring Well?*	*Temporary/Permanent:* Temp (TW-01) *Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
Time Finish:	1359		*Screened Interval:* 4.69 to 14.69' bgs *Riser Height:* 6.52'	*Water Level:*	9.34' 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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			2'	0.0	0.5 - 1' - Dark gray, medium SAND, some fine gravel pieces	
2				(0.0)	1 - 3' - Brown, fine SAND	
3						
4			3'		3 - 6' - Dark gray/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	
5				(0.0)		
6						
7			2.75'		6 - 9' - Dark brown/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	
8				(0.0)		
9						
10	▼		2.5'		9 - 11' - Dark brown/gray/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	Sample **SB-01** for VOCs and SVOCs
11				(0.4)	11 - 12' - Dark gray, fine SAND and fine gravel pieces, moist, petroleum odor	
12						
13			3'*		12 - 15' - Dark gray, medium SAND and very coarse sand, some fine gravel, wet, petroleum odor	
14				(0.6)		
15						
16					Boring terminated at ~15' bgs	
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * - Top 6 to 12" of recovered material from the 12' to 15' bgs sample appears to be 'slough' from shallower depths

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility
Client:	BBL Construction Services, LLC
Site Location:	156-158 Solar Street, Syracuse, NY
Coordinates:	
Drilling Contractor:	NYEG
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)
Sample Type(s):	3' MacroCore Sleeves
Monitoring Well?	*Temporary/Permanent:* N/A *Diameter:* N/A; *Screened Interval:* N/A *Riser Height:* N/A

BORING ID: SB-02

Sheet:	1 of 1
Logged By:	DB
Boring Diameter:	2"
Ground Elevation:	
Boring Depth:	~15' bgs
Water Level:	N/A
Date:	January 3, 2018
Time Start:	1404
Time Finish:	1443

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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			1.75'	(0.1)	0.5 - 1' - Dark gray, medium SAND, some fine gravel 1 - 3' - Brown, fine SAND	
2						
3						
4			2.75'	(0.1)	3 - 6' - Dark gray/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	
5						
6						
7			2.75'	(1.1)	6 - 9' - Dark brown/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	
8						
9						
10			2.75'	(665)	9 - 11' - Brownish gray/black, PEAT material (fine sand / silt, squishy), earthy odor, moist	
11					11 - 12' - Dark gray, medium SAND and fine gravel, strong petroleum odor	Sample **SB-02** for VOCs and SVOCs
12						
13			1.5'	(261)	12 - 15' - Brownish gray/black, PEAT material (fine sand / silt, squishy), petroleum odor, moist	
14						
15						
16					Boring terminated at ~15' bgs	
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.).

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility
Client:	BBL Construction Services, LLC
Site Location:	156-158 Solar Street, Syracuse, NY
Coordinates:	
Drilling Contractor:	NYEG
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)
Sample Type(s):	3' MacroCore Sleeves
Monitoring Well?	*Temporary/Permanent:* Temp (TW-02) *Diameter:* 1" PVC; *Screened Interval:* 5.30 to 15.30' bgs *Riser Height:* 6.52'

BORING ID: SB-03

Sheet:	1 of 1
Logged By:	DB
Boring Diameter:	2"
Ground Elevation:	
Boring Depth:	~15' bgs
Water Level:	9.76' bgs
Date:	January 3 & 4, 2018*
Time Start:	Jan 3rd @ 1448*
Time Finish:	Jan 4th @ 1112*

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)
					0 - 0.75' - 9" CONCRETE SLAB	
1			2'	(1.4)	0.75 - 1' - Red BRICK material 1 - 3' - Black, coarse SAND and very coarse sand	
2						
3						
4			2'	(2.7)	3 - 4.5' - Gray, coarse SAND, some medium sand	
5					4.5 - 6' - Dark gray/black, PEAT material (fine sand / silt, squishy), earthy odor	
6						
7			1'	(0.7)	POOR RECOVERY 6 - 9' - Gray, medium SAND and coarse sand, wet	
8						
9						
10	▼		2.75'	(443)	9 - 11' - Brownish gray, PEAT material (fine sand / silt, squishy), earthy odor	
11					11 - 12' - Dark gray, medium SAND and coarse sand, seom fine gravel, strong petroleum odor, moist	Sample **SB-03** for VOCs and SVOCs
12						
13			2.5'	(429)	12 - 15' - Gray and dark gray, medium SAND and coarse sand, some fine gravel, petroleum odor, wet	
14						
15						
16					Boring terminated at ~15' bgs	
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * - Geoprobe ran out of fuel during boring of 12 - 15' sample on 1/3/18. Boring completed and temporary well installed on 1/4/18.

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-04**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted and Remote Driven Unit	*Boring Diameter:*	2"
Date: January 3, 2018	*Sample Type(s):* 5' MacroCore sleeves	*Ground Elevation:*	
Time Start: 1552	*Monitoring Well?* *Temporary/Permanent:* N/A *Diameter:* N/A	*Boring Depth:*	~15' bgs
Time Finish: 1616	*Screened Interval:* N/A *Riser Height:* N/A	*Water Level:*	N/A

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 - 0.25' - Black, ASPHALT 0.25 - 1' - Gray, CRUSHED STONE (asphaly underlayment) 1 - 2.5' - Grayish brown, medium SAND and coarse sand	
2			3.25'	(0.0)		
3					2.5 - 3.5' - Brown, fine SAND	
4					3.5 - 3.75' - Red, BRICK material 3.75 - 5' - Brown, SILTY fine sand	
5						
6					5 - 7' - Gray, medium SAND and coarse sand, some fine gravel, wet	
7			3.25'	(0.0)		
8					7 - 10' - Dark brown, PEAT material (fine sand / silt, squishy), earthy odor	
9						
10						
11					10 - 12' - Gray, coarse SAND and fine gravel, wet	
12			4.75'			
13					12 - 14' - Dark brown/black, PEAT material (fine sand / silt, squishy), earthy odor	
14				(0.5)	14 - 15' - Gray, coarse SAND, some fine gravel, moist, slight petroleum odor	
15						
16					Boring terminated at ~15' bgs	
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

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AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-05**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted and Remote Driven Unit	*Boring Diameter:*	2"
Date: January 3, 2018	*Sample Type(s):* 5' MacroCore sleeves	*Ground Elevation:*	
Time Start: 1619	*Monitoring Well?* *Temporary/Permanent:* Temp (TW-04) *Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
Time Finish: 1640	*Screened Interval:* 4.38 to 14.38' bgs *Riser Height:* 6.20'	*Water Level:*	4.92' 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					0 - 1' - Black, ASPHALT and associated	
2			3'	(0.0)	1 - 5' - Brownish gray, coarse SAND and medium sand	
3						
4						
5	▼				POOR RECOVERY	
6					~5 - 7' - Gray, coarse SAND and fine gravel, moist	
7			1.5'	(0.0)	~7 - 10' - Gray, PEAT material (fine sand / silt, squishy), earthy odor	
8						
9						
10					POOR RECOVERY	
11					10 - 15' - PEAT material as seen elsewhere, but with some gravel interspersed, wet, slight petroleum odor	
12			2.25'	(0.1)		Sample **SB-05** for VOCs and SVOCs
13						
14						
15					Boring terminated at ~15' bgs	
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

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AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-06**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted and Remote Driven Unit	*Boring Diameter:*	2"
Date: January 4, 2018	*Sample Type(s):* 5' MacroCore sleeves	*Ground Elevation:*	
Time Start: 0826	*Monitoring Well?* *Temporary/Permanent:* N/A *Diameter:* N/A	*Boring Depth:*	~15' bgs
Time Finish: 0856	*Screened Interval:* N/A *Riser Height:* N/A	*Water Level:*	N/A

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 - 1.5' - Dark brown, coarse SAND, trace very coarse sand 1.5 - 2.75' - Brown, fine SAND and SILT 2.75 - 3.5' - Dark brown/black, coarse SAND, little brick pieces 3.5 - 5' - Brown, fine SAND and SILT	
5			3.5'	(0.0)	5 - 6' - Blackish brown, medium SAND and fine gravel, moist 6 - 7.5' - Grayish dark gray, coarse SAND material and fine gravel, moist 7.5 - 9' - Grayish brown, coarse SAND and medium sand, trace fine gravel, moist 9 - 10' - Dark brown/black, PEAT material (fine sand / silt, squishy), earthy odor	
10			4.5'	(0.0)	10 - 11' - Gray, medium SAND and coarse sand, trace very coarse sand, wet 11 - 15' - Dark brown/black, PEAT material (fine sand / silt, squishy), earthy odor	
15					Boring terminated at ~15' bgs	
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.).

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-07**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)	*Boring Diameter:*	2"
Date:	January 4, 2018	*Sample Type(s):*	3' MacroCore Sleeves	*Ground Elevation:*	
Time Start:	1119	*Monitoring Well?*	*Temporary/Permanent:* Temp (TW-03) *Diameter:* 1" PVC	*Boring Depth:*	~10' bgs
Time Finish:	1204		*Screened Interval:* 0.00 to 8.9' bgs (All) *Riser Height:* All Screen	*Water Level:*	3.20' 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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			2'	(13.2)	0.5 - 3' - Dark gray/black, coarse SAND, some very coarse sand, moist*, slight odor	Sample **SB-07** for VOCs and SVOCs
2						
3	▼				POOR RECOVERY	
4			0.75'	(2.7)	3 - 6' - Dark gray, medium SAND, some coarse sand, little very fine sand interspersed, moist*	
5						
6						
7			2.25'	(0.4)	6 - 9' - Dark gray, coarse SAND, trace medium sand, trace very coarse sand, moist*	
8						
9						
10			1.25'**	(0.8)	9 - 10' - Dark gray, very coarse SAND and coarse sand, wet	
11					Refusal at ~10' bgs	
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * - Moisture likely affected by core-drilling activities
** - Likely that some slough was recovered in sample

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-08**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)	*Boring Diameter:*	2"
Date:	January 4, 2018	*Sample Type(s):*	3' MacroCore Sleeves	*Ground Elevation:*	
Time Start:	1209	*Monitoring Well?*	*Temporary/Permanent:* N/A *Diameter:* N/A	*Boring Depth:*	~15' bgs
Time Finish:	1240		*Screened Interval:* N/A *Riser Height:* N/A	*Water Level:*	N/A

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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			1.25'		0.5 - 1.5' - Dark gray/black, very coarse SAND and fine gravel	
2				(1.4)	1.5 - 3' - Brown, coarse SAND and medium sand, trace fine sand	
3					NO RECOVERY	
4						
5						
6					6 - 9' - Grayish, PEAT material (fine sand / silt, squishy), earthy odor	
7			2.75'			
8				(0.0)		
9					9 - 10' - Grayish, PEAT material (fine sand / silt, squishy), earthy odor, moist	
10			3'	(0.0)	10 - 12' - Grayish, PEAT material (fine sand / silt, squishy), earthy odor	
11						
12					12 - 13.75' - Grayish, PEAT material (fine sand / silt, squishy), earthy odor, wet	
13			3'			
14				(0.0)	13.75 - 15' - Gray, medium SAND, some very coarse sand, wet, earthy odor	
15					Boring terminated at ~15' bgs	
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES:

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AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258 / Syracuse Scale Facility	**BORING ID:**	**SB-09**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe (After Core-Drilling through concrete slab)	*Boring Diameter:*	2"
Date:	January 4, 2018	*Sample Type(s):*	3' MacroCore Sleeves	*Ground Elevation:*	
Time Start:	1245	*Monitoring Well?*	*Temporary/Permanent:* N/A *Diameter:* N/A	*Boring Depth:*	~5' bgs
Time Finish:	1315		*Screened Interval:* N/A *Riser Height:* N/A	*Water Level:*	N/A

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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			2'	(0.3)	0.5 - 3' - Dark gray/black, coarse SAND and very coarse sand	Sample **SB-09** for VOCs and SVOCs
2						
3						
4			1.25'	(0.1)	3 - 5' - Dark gray/black, PEAT material (fine sand / silt, squishy), earthy odor, some coarse sand interspersed	
5						
6					Refusal at ~5' bgs	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

NOTES:

bgs = below ground surface
▼ = observed water level

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AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility			**BORING ID:**	**SB-10A**
Client:	BBL Construction Services, LLC				
Site Location:	156-158 Solar Street, Syracuse, NY				
Coordinates:				*Sheet:*	1 of 1
Drilling Contractor:	NYEG			*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted, Remote-Operated			*Boring Diameter:*	2"
Date: February 7, 2018	*Sample Type(s):*	5' MacroCore Sleeves		*Ground Elevation:*	
Time Start: 0842	*Monitoring Well?*	*Temporary/Permanent:* N/A	*Diameter:* N/A	*Boring Depth:*	~7' bgs
Time Finish: 0903		*Screened Interval:* N/A	*Riser Height:* N/A	*Water Level:*	N/A

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 - 0.5' - 6" CONCRETE SLAB*	
2			3.5'		0.5 - 2' - Dark brown and red, FILL / BRICK material	
3					2 - 5' - Brown, coarse SAND	
4						
5						
6			2'		5 - 7' - Dark brown, PEAT material (fine sand / silt, squishy), earthy odor	
7					Refusal at ~7' bgs	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * - The Geoprobe unit was capable of drilling through the concrete slab so that core-drilling was not necessary

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.).

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility
Client:	BBL Construction Services, LLC
Site Location:	156-158 Solar Street, Syracuse, NY
Coordinates:	
Drilling Contractor:	NYEG
Drilling Method:	Direct-Push Geoprobe, Track-Mounted, Remote-Operated
Sample Type(s):	5' MacroCore Sleeves
Monitoring Well?	*Temporary/Permanent:* Temp; *Diameter:* 1" PVC; *Screened Interval:* Bottom 10'; *Riser Height:* Unmeasured

BORING ID: SB-10B**

Sheet:	1 of 1
Logged By:	DB
Boring Diameter:	2"
Ground Elevation:	
Boring Depth:	~15' bgs
Water Level:	N/A
Date:	February 7, 2018
Time Start:	0904
Time Finish:	0924

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)
1–5			4'	(0.9)	0 - 0.5' - 6" CONCRETE SLAB* 0.5 - 1.5' - Dark brown, FILL material 1.5 - 5' - Brown, coarse SAND	
5–10			2.5'	(2.0)	5 - 6' - Brown, coarse SAND, some medium sand 6 - 10' - Black, PEAT material (fine sand / silt, squishy), earthy odor	
10–15			4.75'	(2.0) 3.7	10 - 12' - Black, PEAT material (fine sand / silt, squishy), petroleum odor, wet 12 - 15' - Gray, very coarse SAND, some fine gravel, petroleum odor, wet	
15–20					Boring terminated at ~15' bgs	

bgs = below ground surface
▼ = observed water level

NOTES: * - The Geoprobe unit was capable of drilling through the concrete slab so that core-drilling was not necessary
** - Boring SB-10B was advanced approximately 5 feet offset from SB-10A

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility	**BORING ID:**	**SB-11**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted, Remote-Operated	*Boring Diameter:*	2"
Sample Type(s):	5' MacroCore Sleeves	*Ground Elevation:*	
Monitoring Well?	*Temporary/Permanent:* Temp; *Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
	Screened Interval: Bottomw 10'; *Riser Height:* Unmeasured	*Water Level:*	N/A
Date:	February 7, 2018		
Time Start:	0927		
Time Finish:	0953		

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'	(2.5)	0 - 0.5' - 6" CONCRETE SLAB*	
2					0.5 - 2.5' - Dark brown and red, FILL / BRICK material	
3					2.5 - 5' - Brownish tan, medium SAND	
4						
5						
6			1.75'	(0.3)	POOR RECOVERY Approximately 6" of Brownish tan, medium SAND, with some fine gravel recovered, wet Remaining is Dark brown, PEAT (fine sand / silt, squishy) earthy odor, wet	
7						
8						
9						
10						
11			4.75'	(1.2)	10 - 11' - Brown, fine gravel, wet (potentially slough from above) 11 - 13' - Dark brown, PEAT (fine sand / silt, squishy) petroleum odor, wet	
12						
13				10.8	13 - 15' - Gray, coarse SAND and fine gravel, petroleum odor, wet	
14						
15					Boring terminated at ~15' bgs	
16						
17						
18						
19						
20						

bgs = below ground surface
▼ = observed water level

NOTES: * - The Geoprobe unit was capable of drilling through the concrete slab so that core-drilling was not necessary

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility	**BORING ID:**	**SB-12**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted, Remote-Operated	*Boring Diameter:*	2"
Sample Type(s):	5' MacroCore Sleeves	*Ground Elevation:*	
Date: February 7, 2018	*Monitoring Well?* *Temporary/Permanent:* Temp (TW-06) *Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
Time Start: 1032	*Screened Interval:* 4.01 to 14.01' bgs *Riser Height:* 5.32'	*Water Level:*	9.21' bgs
Time Finish: 1056			

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)
1–5			2.25'	(0.1)	0 - 0.5' - 6" CONCRETE SLAB* 0.5 - 5' - Dark brown, coarse SAND, trace fine gravel	
5–10			2.5'	(0.2)	5 - 10' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor	
10–15			2.75'	(55.8)	10 - 11' - Dark brown, PEAT (fine sand / silt, squishy), petroleum odor, wet 11 - 15' - Gray, very coarse SAND, trace fine gravel, petroleum odor, wet	
15–20					Boring terminated at ~15' bgs	

bgs = below ground surface
▼ = observed water level

NOTES: * - The Geoprobe unit was capable of drilling through the concrete slab so that core-drilling was not necessary

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility	**BORING ID:**	**SB-13**
Client:	BBL Construction Services, LLC		
Site Location:	156-158 Solar Street, Syracuse, NY		
Coordinates:		*Sheet:*	1 of 1
Drilling Contractor:	NYEG	*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Dolly-Mounted Rig (Core-Drill through concrete slab)	*Boring Diameter:*	2"
Date: February 7, 2018	*Sample Type(s):* 3' MacroCore Sleeves	*Ground Elevation:*	
Time Start: 1040	*Monitoring Well?* *Temporary/Permanent:* Temp (TW-07) *Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
Time Finish: 1158	*Screened Interval:* 3.95 to 13.95' bgs *Riser Height:* 4.15'	*Water Level:*	8.82' 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)
					0 - 0.5' - 6" CONCRETE SLAB	
1			1.25'	(0.1)	0.5 - 3' - Brown, medium SAND	
2						
3						
4			2.5'	(1.3)	3 - 5' - Dark brown, medium SAND, densely compacted	
5					5 - 6' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor	
6						
7			1.5'	(2.5)	6 - 9' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor	
8						
9						
10			2.5'	(2,452)	9 - 10.5' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor, moist	
11					10.5 - 12' - Gray, coarse SAND and fine gravel, strong petroleum odor, wet	
12						
13			2.75'	(1,823)	12 - 15' - Gray, very coarse SAND and fine gravel, strong petroleum odor, wet	
14						
15						
16					Boring terminated at ~15' bgs	
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.).

AECC ENVIRONMENTAL CONSULTING

Soil Boring Log

Project #/Name:	17-258-001 / Syracuse Scale Facility			**BORING ID:**	**SB-14**
Client:	BBL Construction Services, LLC				
Site Location:	156-158 Solar Street, Syracuse, NY				
Coordinates:				*Sheet:*	1 of 1
Drilling Contractor:	NYEG			*Logged By:*	DB
Drilling Method:	Direct-Push Geoprobe, Track-Mounted, Remote-Operated			*Boring Diameter:*	2"
Sample Type(s):	5' MacroCore Sleeves			*Ground Elevation:*	
Monitoring Well?	*Temporary/Permanent:*	Temp (TW-08)	*Diameter:* 1" PVC	*Boring Depth:*	~15' bgs
	Screened Interval:	5.0 to 15.0' bgs	*Riser Height:* 7.05'	*Water Level:*	9.30' bgs
Date:	February 7, 2018				
Time Start:	1124				
Time Finish:	1148				

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)
1–5			2.5'	(0.3)	0 - 0.25' - Black ASPHALT 0.25 - 4.5' - Brown, coarse SAND and medium sand, trace brick material 4.5 - 5' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor	
5–10			3.25'	(10.2)	5 - 10' - Dark brown, PEAT (fine sand / silt, squishy), earthy odor	
10–15			2.5'	(1,950)	10 - 12' - Dark brown, PEAT (fine sand / silt, squishy) petroleum odor, wet 12 - 15' - Gray, coarse SAND and fine gravel, strong petroleum odor, wet	
15–20					Boring terminated at ~15' bgs	

NOTES:

bgs = below ground surface
▼ = observed water level

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.).

ATTACHMENT B

EUROFINS / SPECTRUM ANALYTICAL LABORATORY ANALYSIS REPORTS

☑ Final Report
☐ Revised Report

Report Date:
19-Jan-18 14:48

Laboratory Report
SC42941

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

Project: Syracuse Scale - Solar St - NY
Project #: 17-258

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:

Dawn Wojcik
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 56 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.

Sample Summary

Work Order: SC42941

Project: Syracuse Scale - Solar St - NY

Project Number: 17-258

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC42941-01	Soil Pile 01	Soil	02-Jan-18 11:10	06-Jan-18 11:01
SC42941-02	Soil Pile 02	Soil	03-Jan-18 08:45	06-Jan-18 11:01
SC42941-03	SB-01	Soil	03-Jan-18 13:49	06-Jan-18 11:01
SC42941-04	SB-02	Soil	03-Jan-18 14:51	06-Jan-18 11:01
SC42941-05	SB-03	Soil	03-Jan-18 15:27	06-Jan-18 11:01
SC42941-06	SB-05	Soil	03-Jan-18 16:42	06-Jan-18 11:01
SC42941-07	SB-07	Soil	04-Jan-18 11:55	06-Jan-18 11:01
SC42941-08	SB-09	Soil	04-Jan-18 13:16	06-Jan-18 11:01
SC42941-09	SURF-01	Soil	04-Jan-18 09:16	06-Jan-18 11:01
SC42941-10	SURF-02	Soil	04-Jan-18 09:32	06-Jan-18 11:01
SC42941-11	SURF-03	Soil	04-Jan-18 09:47	06-Jan-18 11:01
SC42941-12	SURF-04	Soil	04-Jan-18 10:02	06-Jan-18 11:01

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 1.8 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. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

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

Laboratory Control Samples:

1800269 SRM/SRMD

Cadmium percent recoveries (91/82) are outside individual acceptance criteria (82.4-117.6), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Soil Pile 01
Soil Pile 02
SURF-01
SURF-02
SURF-03
SURF-04

SW846 8260C

Calibration:

1712025

SW846 8260C

Calibration:

1712025

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
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
Di-isopropyl ether
Ethyl tert-butyl ether
Ethylbenzene
Isopropylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrahydrofuran
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

S710689-ICV1

1801061

Analyte quantified by quadratic equation type calibration.

4-Isopropyltoluene
Naphthalene
sec-Butylbenzene

This affected the following samples:

S815994-ICV1

S815994-ICV1

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

Carbon disulfide (78%)

This affected the following samples:

S815999-CCV1

Laboratory Control Samples:

SW846 8260C

Laboratory Control Samples:

1800329 BS/BSD

Vinyl chloride percent recoveries (62/60) 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:

SB-03

Spikes:

1800329-MS1 *Source: SC42941-04*

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

1,2,4-Trimethylbenzene

Samples:

S815841-CCV1

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

2-Chlorotoluene (21.3%)
Chloroethane (-26.0%)
Chloromethane (-28.1%)

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

Vinyl chloride (-38.2%)

This affected the following samples:

1800329-BLK1
1800329-BS1
1800329-BSD1
1800329-MS1
1800329-MSD1
SB-03

SC42941-04 *SB-02*

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

SC42941-05 *SB-03*

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

SC42941-06 *SB-05*

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

SC42941-08 *SB-09*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SW846 8270D

Samples:

S815979-CCV1

SW846 8270D

Samples:

S815979-CCV1

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

2-Methylnaphthalene (27.7%)

This affected the following samples:

1800428-BLK1
1800428-BS1
1800428-BSD1

S815980-CCV1

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

2-Methylnaphthalene (27.7%)

This affected the following samples:

SB-01
SB-02
SB-03
SB-05
SB-07
SB-09
Soil Pile 02
SURF-01
SURF-02
SURF-03
SURF-04

S816005-CCV1

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

2-Methylnaphthalene (22.6%)

This affected the following samples:

Soil Pile 01

SC42941-01 *Soil Pile 01*

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

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	Syracuse Scale - Solar St - NY / 17-258
Work Order:	SC42941
Sample(s) received on:	1/6/2018

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
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?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC42941-01 **Client ID:** Soil Pile 01

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	5.00		1.64	mg/kg	SW846 6010C
Barium	76.6		1.09	mg/kg	SW846 6010C
Cadmium	1.05		0.546	mg/kg	SW846 6010C
Chromium	13.3		1.09	mg/kg	SW846 6010C
Lead	57.7		1.64	mg/kg	SW846 6010C
Mercury	0.0466		0.0315	mg/kg	SW846 7471B
Aroclor-1260 [2C]	20.9	J	22.2	µg/kg	SW846 8082A
Benzo (a) anthracene	1350	J, D	1490	µg/kg	SW846 8270D
Benzo (a) pyrene	1230	J, D	1490	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1160	J, D	1490	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	754	J, D	1490	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1240	J, D	1490	µg/kg	SW846 8270D
Chrysene	1220	J, D	1490	µg/kg	SW846 8270D
Fluoranthene	2840	D	1490	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	836	J, D	1490	µg/kg	SW846 8270D
Phenanthrene	1430	J, D	1490	µg/kg	SW846 8270D
Pyrene	2170	D	1490	µg/kg	SW846 8270D

Lab ID: SC42941-02 **Client ID:** Soil Pile 02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	4.75		1.81	mg/kg	SW846 6010C
Barium	184		1.20	mg/kg	SW846 6010C
Cadmium	1.42		0.602	mg/kg	SW846 6010C
Chromium	38.6		1.20	mg/kg	SW846 6010C
Lead	131		1.81	mg/kg	SW846 6010C
Mercury	0.141		0.0346	mg/kg	SW846 7471B
Aroclor-1260 [2C]	62.3		24.0	µg/kg	SW846 8082A
Acenaphthene	1610	J, D	1630	µg/kg	SW846 8270D
Anthracene	4380	D	1630	µg/kg	SW846 8270D
Benzo (a) anthracene	10700	D	1630	µg/kg	SW846 8270D
Benzo (a) pyrene	9580	D	1630	µg/kg	SW846 8270D
Benzo (b) fluoranthene	11400	D	1630	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	4790	D	1630	µg/kg	SW846 8270D
Benzo (k) fluoranthene	6030	D	1630	µg/kg	SW846 8270D
Chrysene	10200	D	1630	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	1520	J, D	1630	µg/kg	SW846 8270D
Fluoranthene	24400	D	1630	µg/kg	SW846 8270D
Fluorene	2130	D	1630	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	5620	D	1630	µg/kg	SW846 8270D
Naphthalene	1650	D	1630	µg/kg	SW846 8270D
Phenanthrene	19600	D	1630	µg/kg	SW846 8270D
Pyrene	18200	D	1630	µg/kg	SW846 8270D

Lab ID: SC42941-03 **Client ID:** SB-01

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzene	3.7	UJL	11.7	µg/kg	SW846 8260C

Lab ID: SC42941-04 **Client ID:** SB-02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	38000	D	537	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	499	UJL, D	537	µg/kg	SW846 8260C
4-Isopropyltoluene	5260	D	537	µg/kg	SW846 8260C
Ethylbenzene	832	D	537	µg/kg	SW846 8260C
Isopropylbenzene	4420	D	537	µg/kg	SW846 8260C
m,p-Xylene	596	UJL, D	1070	µg/kg	SW846 8260C
Naphthalene	9370	D	537	µg/kg	SW846 8260C
n-Butylbenzene	5740	D	537	µg/kg	SW846 8260C
n-Propylbenzene	7120	D	537	µg/kg	SW846 8260C
o-Xylene	295	UJL, D	537	µg/kg	SW846 8260C
sec-Butylbenzene	3290	D	537	µg/kg	SW846 8260C
tert-Butylbenzene	730	D	537	µg/kg	SW846 8260C
1-Methylnaphthalene	2150		71.8	µg/kg	SW846 8270D
2-Methylnaphthalene	3560		71.8	µg/kg	SW846 8270D
Acenaphthene	409		71.8	µg/kg	SW846 8270D
Anthracene	202		71.8	µg/kg	SW846 8270D
Benzo (a) anthracene	140		71.8	µg/kg	SW846 8270D
Benzo (a) pyrene	70.0	J	71.8	µg/kg	SW846 8270D
Benzo (b) fluoranthene	44.5	J	71.8	µg/kg	SW846 8270D
Benzo (k) fluoranthene	50.6	J	71.8	µg/kg	SW846 8270D
Chrysene	111		71.8	µg/kg	SW846 8270D
Fluoranthene	254		71.8	µg/kg	SW846 8270D
Fluorene	304		71.8	µg/kg	SW846 8270D
Naphthalene	2000		71.8	µg/kg	SW846 8270D
Phenanthrene	906		71.8	µg/kg	SW846 8270D
Pyrene	411		71.8	µg/kg	SW846 8270D

Lab ID: SC42941-05 **Client ID:** SB-03

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	22600	D	633	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	841	D	633	µg/kg	SW846 8260C
4-Isopropyltoluene	3220	D	633	µg/kg	SW846 8260C
Ethylbenzene	3650	D	633	µg/kg	SW846 8260C
Isopropylbenzene	2620	D	633	µg/kg	SW846 8260C
m,p-Xylene	1230	UJL, D	1270	µg/kg	SW846 8260C
Naphthalene	5570	D	633	µg/kg	SW846 8260C
n-Butylbenzene	3430	D	633	µg/kg	SW846 8260C
n-Propylbenzene	4280	D	633	µg/kg	SW846 8260C
o-Xylene	342	UJL, D	633	µg/kg	SW846 8260C
sec-Butylbenzene	2070	D	633	µg/kg	SW846 8260C
tert-Butylbenzene	569	UJL, D	633	µg/kg	SW846 8260C
1-Methylnaphthalene	737		73.0	µg/kg	SW846 8270D
2-Methylnaphthalene	1400		73.0	µg/kg	SW846 8270D
Acenaphthene	177		73.0	µg/kg	SW846 8270D
Anthracene	92.3		73.0	µg/kg	SW846 8270D
Benzo (a) anthracene	68.6	J	73.0	µg/kg	SW846 8270D
Benzo (a) pyrene	37.6	J	73.0	µg/kg	SW846 8270D
Benzo (b) fluoranthene	35.7	J	73.0	µg/kg	SW846 8270D
Chrysene	59.1	J	73.0	µg/kg	SW846 8270D
Fluoranthene	137		73.0	µg/kg	SW846 8270D
Fluorene	145		73.0	µg/kg	SW846 8270D
Naphthalene	625		73.0	µg/kg	SW846 8270D
Phenanthrene	393		73.0	µg/kg	SW846 8270D
Pyrene	207		73.0	µg/kg	SW846 8270D

Lab ID: SC42941-06 **Client ID:** SB-05

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Anthracene	64.3	J	85.7	µg/kg	SW846 8270D
Benzo (a) anthracene	136		85.7	µg/kg	SW846 8270D
Benzo (a) pyrene	120		85.7	µg/kg	SW846 8270D
Benzo (b) fluoranthene	112		85.7	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	64.7	J	85.7	µg/kg	SW846 8270D
Benzo (k) fluoranthene	81.8	J	85.7	µg/kg	SW846 8270D
Chrysene	127		85.7	µg/kg	SW846 8270D
Fluoranthene	329		85.7	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	63.8	J	85.7	µg/kg	SW846 8270D
Phenanthrene	278		85.7	µg/kg	SW846 8270D
Pyrene	239		85.7	µg/kg	SW846 8270D

Lab ID: SC42941-07 **Client ID:** SB-07

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	2.6	UJL	7.1	µg/kg	SW846 8260C
1-Methylnaphthalene	42.8	J	86.5	µg/kg	SW846 8270D
2-Methylnaphthalene	57.5	J	86.5	µg/kg	SW846 8270D
Anthracene	55.7	J	86.5	µg/kg	SW846 8270D
Benzo (a) anthracene	364		86.5	µg/kg	SW846 8270D
Benzo (a) pyrene	379		86.5	µg/kg	SW846 8270D
Benzo (b) fluoranthene	340		86.5	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	229		86.5	µg/kg	SW846 8270D
Benzo (k) fluoranthene	342		86.5	µg/kg	SW846 8270D
Chrysene	414		86.5	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	70.4	J	86.5	µg/kg	SW846 8270D
Fluoranthene	619		86.5	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	221		86.5	µg/kg	SW846 8270D
Phenanthrene	322		86.5	µg/kg	SW846 8270D
Pyrene	568		86.5	µg/kg	SW846 8270D

Lab ID: SC42941-08 **Client ID:** SB-09

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1-Methylnaphthalene	484	J, D	836	µg/kg	SW846 8270D
2-Methylnaphthalene	614	J, D	836	µg/kg	SW846 8270D
Acenaphthene	681	J, D	836	µg/kg	SW846 8270D
Anthracene	1540	D	836	µg/kg	SW846 8270D
Benzo (a) anthracene	4380	D	836	µg/kg	SW846 8270D
Benzo (a) pyrene	5070	D	836	µg/kg	SW846 8270D
Benzo (b) fluoranthene	5270	D	836	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	2870	D	836	µg/kg	SW846 8270D
Benzo (k) fluoranthene	3890	D	836	µg/kg	SW846 8270D
Chrysene	4710	D	836	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	981	D	836	µg/kg	SW846 8270D
Fluoranthene	9500	D	836	µg/kg	SW846 8270D
Fluorene	693	J, D	836	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	2980	D	836	µg/kg	SW846 8270D
Naphthalene	547	J, D	836	µg/kg	SW846 8270D
Phenanthrene	7110	D	836	µg/kg	SW846 8270D
Pyrene	7030	D	836	µg/kg	SW846 8270D

Lab ID: SC42941-09 **Client ID:** SURF-01

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.71		1.72	mg/kg	SW846 6010C
Barium	542		1.15	mg/kg	SW846 6010C
Cadmium	1.16		0.573	mg/kg	SW846 6010C
Chromium	19.6		1.15	mg/kg	SW846 6010C
Lead	199		1.72	mg/kg	SW846 6010C
Mercury	0.237		0.0304	mg/kg	SW846 7471B
Benzo (a) anthracene	1750	D	767	µg/kg	SW846 8270D
Benzo (a) pyrene	1700	D	767	µg/kg	SW846 8270D
Benzo (b) fluoranthene	1660	D	767	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	820	D	767	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1570	D	767	µg/kg	SW846 8270D
Chrysene	1570	D	767	µg/kg	SW846 8270D
Fluoranthene	2790	D	767	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	962	D	767	µg/kg	SW846 8270D
Phenanthrene	1180	D	767	µg/kg	SW846 8270D
Pyrene	2310	D	767	µg/kg	SW846 8270D

Lab ID: SC42941-10 **Client ID:** SURF-02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.36		1.74	mg/kg	SW846 6010C
Barium	80.5		1.16	mg/kg	SW846 6010C
Cadmium	0.732		0.581	mg/kg	SW846 6010C
Chromium	8.94		1.16	mg/kg	SW846 6010C
Lead	44.1		1.74	mg/kg	SW846 6010C
Mercury	0.197		0.0346	mg/kg	SW846 7471B
Aroclor-1260	98.4		22.9	µg/kg	SW846 8082A
Anthracene	88.7	J, D	156	µg/kg	SW846 8270D
Benzo (a) anthracene	393	D	156	µg/kg	SW846 8270D
Benzo (a) pyrene	391	D	156	µg/kg	SW846 8270D
Benzo (b) fluoranthene	379	D	156	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	218	D	156	µg/kg	SW846 8270D
Benzo (k) fluoranthene	307	D	156	µg/kg	SW846 8270D
Chrysene	393	D	156	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	61.5	J, D	156	µg/kg	SW846 8270D
Fluoranthene	766	D	156	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	235	D	156	µg/kg	SW846 8270D
Phenanthrene	459	D	156	µg/kg	SW846 8270D
Pyrene	635	D	156	µg/kg	SW846 8270D

Lab ID: SC42941-11 **Client ID:** SURF-03

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	8.42		1.74	mg/kg	SW846 6010C
Barium	61.0		1.16	mg/kg	SW846 6010C
Cadmium	0.620		0.579	mg/kg	SW846 6010C
Chromium	9.54		1.16	mg/kg	SW846 6010C
Lead	88.3		1.74	mg/kg	SW846 6010C
Mercury	0.136		0.0327	mg/kg	SW846 7471B
1-Methylnaphthalene	210	J, D	386	µg/kg	SW846 8270D
2-Methylnaphthalene	239	J, D	386	µg/kg	SW846 8270D
Anthracene	316	J, D	386	µg/kg	SW846 8270D
Benzo (a) anthracene	2320	D	386	µg/kg	SW846 8270D
Benzo (a) pyrene	2280	D	386	µg/kg	SW846 8270D
Benzo (b) fluoranthene	2070	D	386	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1220	D	386	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1900	D	386	µg/kg	SW846 8270D
Chrysene	2340	D	386	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	334	J, D	386	µg/kg	SW846 8270D
Fluoranthene	4840	D	386	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1360	D	386	µg/kg	SW846 8270D
Phenanthrene	1760	D	386	µg/kg	SW846 8270D
Pyrene	4250	D	386	µg/kg	SW846 8270D

Lab ID: SC42941-12 **Client ID:** SURF-04

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	6.22		1.70	mg/kg	SW846 6010C
Barium	44.2		1.13	mg/kg	SW846 6010C
Cadmium	0.559	J	0.565	mg/kg	SW846 6010C
Chromium	15.2		1.13	mg/kg	SW846 6010C
Lead	32.1		1.70	mg/kg	SW846 6010C
Mercury	0.207		0.0296	mg/kg	SW846 7471B
Benzo (a) anthracene	180		75.8	µg/kg	SW846 8270D
Benzo (a) pyrene	185		75.8	µg/kg	SW846 8270D
Benzo (b) fluoranthene	194		75.8	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	113		75.8	µg/kg	SW846 8270D
Benzo (k) fluoranthene	159		75.8	µg/kg	SW846 8270D
Chrysene	187		75.8	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	32.6	J	75.8	µg/kg	SW846 8270D
Fluoranthene	321		75.8	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	113		75.8	µg/kg	SW846 8270D
Phenanthrene	161		75.8	µg/kg	SW846 8270D
Pyrene	271		75.8	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	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile 01	17-258	Soil	02-Jan-18 11:10	06-Jan-18
SC42941-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 1490	U, D	µg/kg dry	1490	744	20	SW846 8270D	12-Jan-18	17-Jan-18	MSL	1800428	X
208-96-8	Acenaphthylene	< 1490	U, D	µg/kg dry	1490	737	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1490	U, D	µg/kg dry	1490	714	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,350**	J, D	µg/kg dry	1490	788	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,230**	J, D	µg/kg dry	1490	556	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,160**	J, D	µg/kg dry	1490	723	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**754**	J, D	µg/kg dry	1490	600	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,240**	J, D	µg/kg dry	1490	585	20	"	"	"	"	"	X
218-01-9	Chrysene	**1,220**	J, D	µg/kg dry	1490	746	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1490	U, D	µg/kg dry	1490	573	20	"	"	"	"	"	X
206-44-0	Fluoranthene	**2,840**	D	µg/kg dry	1490	789	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1490	U, D	µg/kg dry	1490	759	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**836**	J, D	µg/kg dry	1490	538	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1490	U, D	µg/kg dry	1490	903	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1490	U, D	µg/kg dry	1490	697	20	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,430**	J, D	µg/kg dry	1490	695	20	"	"	"	"	"	X
129-00-0	Pyrene	**2,170**	D	µg/kg dry	1490	833	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1490	U, D	µg/kg dry	1490	735	20	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*68*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*74*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 22.2	U	µg/kg dry	22.2	9.97	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 22.2	U	µg/kg dry	22.2	11.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.2	U	µg/kg dry	22.2	11.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.2	U	µg/kg dry	22.2	22.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.2	U	µg/kg dry	22.2	20.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.2	U	µg/kg dry	22.2	14.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**20.9**	J	µg/kg dry	22.2	12.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.2	U	µg/kg dry	22.2	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.2	U	µg/kg dry	22.2	10.0	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*120*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.64	U	mg/kg dry	1.64	0.177	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**5.00**		mg/kg dry	1.64	0.208	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile 01 SC42941-01	17-258	Soil	02-Jan-18 11:10	06-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**76.6**		mg/kg dry	1.09	0.129	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**1.05**		mg/kg dry	0.546	0.0283	1	"	"	"	"	"	X
7440-47-3	Chromium	**13.3**		mg/kg dry	1.09	0.145	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.0466**		mg/kg dry	0.0315	0.0087	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**57.7**		mg/kg dry	1.64	0.232	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.64	U	mg/kg dry	1.64	0.313	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.8**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile 02	17-258	Soil	03-Jan-18 08:45	06-Jan-18
SC42941-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	**1,610**	J, D	µg/kg dry	1630	812	20	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 1630	U, D	µg/kg dry	1630	804	20	"	"	"	"	"	X
120-12-7	Anthracene	**4,380**	D	µg/kg dry	1630	780	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**10,700**	D	µg/kg dry	1630	861	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**9,580**	D	µg/kg dry	1630	607	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**11,400**	D	µg/kg dry	1630	790	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**4,790**	D	µg/kg dry	1630	655	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**6,030**	D	µg/kg dry	1630	638	20	"	"	"	"	"	X
218-01-9	Chrysene	**10,200**	D	µg/kg dry	1630	814	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**1,520**	J, D	µg/kg dry	1630	626	20	"	"	"	"	"	X
206-44-0	Fluoranthene	**24,400**	D	µg/kg dry	1630	862	20	"	"	"	"	"	X
86-73-7	Fluorene	**2,130**	D	µg/kg dry	1630	829	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**5,620**	D	µg/kg dry	1630	587	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1630	U, D	µg/kg dry	1630	985	20	"	"	"	"	"	X
91-20-3	Naphthalene	**1,650**	D	µg/kg dry	1630	760	20	"	"	"	"	"	X
85-01-8	Phenanthrene	**19,600**	D	µg/kg dry	1630	759	20	"	"	"	"	"	X
129-00-0	Pyrene	**18,200**	D	µg/kg dry	1630	910	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1630	U, D	µg/kg dry	1630	802	20	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*51*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*50*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 24.0	U	µg/kg dry	24.0	10.7	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 24.0	U	µg/kg dry	24.0	12.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.0	U	µg/kg dry	24.0	12.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.0	U	µg/kg dry	24.0	23.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.0	U	µg/kg dry	24.0	21.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.0	U	µg/kg dry	24.0	15.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**62.3**		µg/kg dry	24.0	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.0	U	µg/kg dry	24.0	20.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.0	U	µg/kg dry	24.0	10.8	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.81	U	mg/kg dry	1.81	0.195	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**4.75**		mg/kg dry	1.81	0.229	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile 02 SC42941-02	17-258	Soil	03-Jan-18 08:45	06-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**184**		mg/kg dry	1.20	0.142	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**1.42**		mg/kg dry	0.602	0.0312	1	"	"	"	"	"	X
7440-47-3	Chromium	**38.6**		mg/kg dry	1.20	0.160	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.141**		mg/kg dry	0.0346	0.0096	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**131**		mg/kg dry	1.81	0.255	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.81	U	mg/kg dry	1.81	0.344	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**81.5**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-01	17-258	Soil	03-Jan-18 13:49	06-Jan-18
SC42941-03				

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	08-Jan-18		BD	1800271	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.68 g							
71-43-2	Benzene	**3.7**	UJL	µg/kg dry	11.7	3.1	1	SW846 8260C	12-Jan-18	12-Jan-18	MP	1800435	X
104-51-8	n-Butylbenzene	< 11.7	UJL	µg/kg dry	11.7	3.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 11.7	UJL	µg/kg dry	11.7	2.1	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 11.7	UJL	µg/kg dry	11.7	2.6	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 11.7	UJL	µg/kg dry	11.7	1.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 11.7	UJL	µg/kg dry	11.7	2.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 11.7	UJL	µg/kg dry	11.7	2.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 11.7	UJL	µg/kg dry	11.7	4.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 11.7	UJL	µg/kg dry	11.7	7.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 11.7	UJL	µg/kg dry	11.7	1.9	1	"	"	"	"	"	X
108-88-3	Toluene	< 11.7	UJL	µg/kg dry	11.7	3.8	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 11.7	UJL	µg/kg dry	11.7	2.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 11.7	UJL	µg/kg dry	11.7	2.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 23.5	UJL	µg/kg dry	23.5	2.1	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 11.7	UJL	µg/kg dry	11.7	3.3	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*90*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*90*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*123*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 254	U, D	µg/kg dry	254	126	2	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 254	U, D	µg/kg dry	254	125	2	"	"	"	"	"	X
120-12-7	Anthracene	< 254	U, D	µg/kg dry	254	121	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 254	U, D	µg/kg dry	254	134	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 254	U, D	µg/kg dry	254	94.5	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 254	U, D	µg/kg dry	254	123	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 254	U, D	µg/kg dry	254	102	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 254	U, D	µg/kg dry	254	99.3	2	"	"	"	"	"	X
218-01-9	Chrysene	< 254	U, D	µg/kg dry	254	127	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 254	U, D	µg/kg dry	254	97.4	2	"	"	"	"	"	X
206-44-0	Fluoranthene	< 254	U, D	µg/kg dry	254	134	2	"	"	"	"	"	X
86-73-7	Fluorene	< 254	U, D	µg/kg dry	254	129	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 254	U, D	µg/kg dry	254	91.3	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 254	U, D	µg/kg dry	254	153	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 254	U, D	µg/kg dry	254	118	2	"	"	"	"	"	X
85-01-8	Phenanthrene	< 254	U, D	µg/kg dry	254	118	2	"	"	"	"	"	X
129-00-0	Pyrene	< 254	U, D	µg/kg dry	254	142	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 254	U, D	µg/kg dry	254	125	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-01 SC42941-03	17-258	Soil	03-Jan-18 13:49	06-Jan-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*50*			*30-130 %*			SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	
4165-60-0	*Nitrobenzene-d5*	*53*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*49*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**52.2**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-02	17-258	Soil	03-Jan-18 14:51	06-Jan-18
SC42941-04				

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	08-Jan-18		BD	1800271	
Volatile Organic Full Aromatics by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 16.34 g						
71-43-2	Benzene	< 537	UJL, D	µg/kg dry	537	142	500	SW846 8260C	10-Jan-18	10-Jan-18	MP	1800329	X
104-51-8	n-Butylbenzene	**5,740**	D	µg/kg dry	537	153	500	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**3,290**	D	µg/kg dry	537	97.7	500	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**730**	D	µg/kg dry	537	120	500	"	"	"	"	"	X
100-41-4	Ethylbenzene	**832**	D	µg/kg dry	537	77.3	500	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**4,420**	D	µg/kg dry	537	106	500	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**5,260**	D	µg/kg dry	537	115	500	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 537	UJL, D	µg/kg dry	537	197	500	"	"	"	"	"	X
91-20-3	Naphthalene	**9,370**	D	µg/kg dry	537	319	500	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**7,120**	D	µg/kg dry	537	86.9	500	"	"	"	"	"	X
108-88-3	Toluene	< 537	UJL, D	µg/kg dry	537	174	500	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**38,000**	D	µg/kg dry	537	130	500	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**499**	UJL, D	µg/kg dry	537	92.3	500	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**596**	UJL, D	µg/kg dry	1070	96.6	500	"	"	"	"	"	X
95-47-6	o-Xylene	**295**	UJL, D	µg/kg dry	537	150	500	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*109*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*97*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	**409**		µg/kg dry	71.8	35.7	1	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 71.8	U	µg/kg dry	71.8	35.4	1	"	"	"	"	"	X
120-12-7	Anthracene	**202**		µg/kg dry	71.8	34.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**140**		µg/kg dry	71.8	37.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**70.0**	J	µg/kg dry	71.8	26.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**44.5**	J	µg/kg dry	71.8	34.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 71.8	U	µg/kg dry	71.8	28.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**50.6**	J	µg/kg dry	71.8	28.1	1	"	"	"	"	"	X
218-01-9	Chrysene	**111**		µg/kg dry	71.8	35.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.8	U	µg/kg dry	71.8	27.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**254**		µg/kg dry	71.8	37.9	1	"	"	"	"	"	X
86-73-7	Fluorene	**304**		µg/kg dry	71.8	36.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 71.8	U	µg/kg dry	71.8	25.8	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**3,560**		µg/kg dry	71.8	43.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	**2,000**		µg/kg dry	71.8	33.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**906**		µg/kg dry	71.8	33.4	1	"	"	"	"	"	X
129-00-0	Pyrene	**411**		µg/kg dry	71.8	40.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**2,150**		µg/kg dry	71.8	35.3	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-02 SC42941-04	17-258	Soil	03-Jan-18 14:51	06-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	
4165-60-0	*Nitrobenzene-d5*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*67*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-03	17-258	Soil	03-Jan-18 15:27	06-Jan-18
SC42941-05				

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	08-Jan-18		BD	1800271	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 14.2 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 633	UJL, D	µg/kg dry	633	321	500	SW846 8260C	10-Jan-18	10-Jan-18	MP	1800329	X
67-64-1	Acetone	< 6330	UJL, D	µg/kg dry	6330	2530	500	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 633	UJL, D	µg/kg dry	633	608	500	"	"	"	"	"	X
71-43-2	Benzene	< 633	UJL, D	µg/kg dry	633	168	500	"	"	"	"	"	X
108-86-1	Bromobenzene	< 633	UJL, D	µg/kg dry	633	169	500	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 633	UJL, D	µg/kg dry	633	319	500	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 633	UJL, D	µg/kg dry	633	422	500	"	"	"	"	"	X
75-25-2	Bromoform	< 633	UJL, D	µg/kg dry	633	603	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 1270	UJL, D	µg/kg dry	1270	571	500	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1270	UJL, D	µg/kg dry	1270	1130	500	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**3,430**	D	µg/kg dry	633	181	500	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**2,070**	D	µg/kg dry	633	115	500	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**569**	UJL, D	µg/kg dry	633	142	500	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1270	UJL, D	µg/kg dry	1270	405	500	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 633	UJL, D	µg/kg dry	633	517	500	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 633	UJL, D	µg/kg dry	633	198	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 1270	UJL, D	µg/kg dry	1270	351	500	"	"	"	"	"	X
67-66-3	Chloroform	< 633	UJL, D	µg/kg dry	633	340	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 1270	UJL, D	µg/kg dry	1270	261	500	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 633	UJL, D	µg/kg dry	633	158	500	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 633	UJL, D	µg/kg dry	633	149	500	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1270	UJL, D	µg/kg dry	1270	914	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 633	UJL, D	µg/kg dry	633	429	500	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 633	UJL, D	µg/kg dry	633	424	500	"	"	"	"	"	X
74-95-3	Dibromomethane	< 633	UJL, D	µg/kg dry	633	329	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 633	UJL, D	µg/kg dry	633	164	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 633	UJL, D	µg/kg dry	633	137	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 633	UJL, D	µg/kg dry	633	187	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1270	UJL, D	µg/kg dry	1270	240	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 633	UJL, D	µg/kg dry	633	166	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 633	UJL, D	µg/kg dry	633	226	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 633	UJL, D	µg/kg dry	633	331	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 633	UJL, D	µg/kg dry	633	235	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 633	UJL, D	µg/kg dry	633	335	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 633	UJL, D	µg/kg dry	633	331	500	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 633	UJL, D	µg/kg dry	633	328	500	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 633	UJL, D	µg/kg dry	633	299	500	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 633	UJL, D	µg/kg dry	633	204	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 633	UJL, D	µg/kg dry	633	381	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 633	UJL, D	µg/kg dry	633	332	500	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-03	17-258	Soil	03-Jan-18 15:27	06-Jan-18
SC42941-05				

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										
							Initial weight: 14.2 g						
100-41-4	Ethylbenzene	**3,650**	D	µg/kg dry	633	91.1	500	SW846 8260C	10-Jan-18	10-Jan-18	MP	1800329	X
87-68-3	Hexachlorobutadiene	< 633	UJL, D	µg/kg dry	633	318	500	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 1270	UJL, D	µg/kg dry	1270	776	500	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**2,620**	D	µg/kg dry	633	125	500	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**3,220**	D	µg/kg dry	633	136	500	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 633	UJL, D	µg/kg dry	633	233	500	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1270	UJL, D	µg/kg dry	1270	325	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1270	UJL, D	µg/kg dry	1270	251	500	"	"	"	"	"	X
91-20-3	Naphthalene	**5,570**	D	µg/kg dry	633	376	500	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**4,280**	D	µg/kg dry	633	102	500	"	"	"	"	"	X
100-42-5	Styrene	< 633	UJL, D	µg/kg dry	633	127	500	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 633	UJL, D	µg/kg dry	633	538	500	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 633	UJL, D	µg/kg dry	633	535	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 633	UJL, D	µg/kg dry	633	216	500	"	"	"	"	"	X
108-88-3	Toluene	< 633	UJL, D	µg/kg dry	633	205	500	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 633	UJL, D	µg/kg dry	633	222	500	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 633	UJL, D	µg/kg dry	633	466	500	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 633	UJL, D	µg/kg dry	633	199	500	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 633	UJL, D	µg/kg dry	633	210	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 633	UJL, D	µg/kg dry	633	459	500	"	"	"	"	"	X
79-01-6	Trichloroethene	< 633	UJL, D	µg/kg dry	633	173	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 633	UJL, D	µg/kg dry	633	341	500	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 633	UJL, D	µg/kg dry	633	474	500	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**22,600**	D	µg/kg dry	633	154	500	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**841**	D	µg/kg dry	633	109	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 633	UJL, D	µg/kg dry	633	214	500	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**1,230**	UJL, D	µg/kg dry	1270	114	500	"	"	"	"	"	X
95-47-6	o-Xylene	**342**	UJL, D	µg/kg dry	633	177	500	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1270	UJL, D	µg/kg dry	1270	997	500	"	"	"	"	"	
60-29-7	Ethyl ether	< 633	UJL, D	µg/kg dry	633	573	500	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 633	UJL, D	µg/kg dry	633	211	500	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 633	UJL, D	µg/kg dry	633	341	500	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 633	UJL, D	µg/kg dry	633	118	500	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 6330	UJL, D	µg/kg dry	6330	4140	500	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 12700	UJL, D	µg/kg dry	12700	11000	500	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 3160	UJL, D	µg/kg dry	3160	1440	500	"	"	"	"	"	X
64-17-5	Ethanol	< 127000	UJL, D	µg/kg dry	127000	23600	500	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*95*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*93*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-03	17-258	Soil	03-Jan-18 15:27	06-Jan-18
SC42941-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	**177**		µg/kg dry	73.0	36.3	1	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 73.0	U	µg/kg dry	73.0	36.0	1	"	"	"	"	"	X
120-12-7	Anthracene	**92.3**		µg/kg dry	73.0	34.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**68.6**	J	µg/kg dry	73.0	38.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**37.6**	J	µg/kg dry	73.0	27.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**35.7**	J	µg/kg dry	73.0	35.3	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.0	U	µg/kg dry	73.0	29.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.0	U	µg/kg dry	73.0	28.6	1	"	"	"	"	"	X
218-01-9	Chrysene	**59.1**	J	µg/kg dry	73.0	36.4	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.0	U	µg/kg dry	73.0	28.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**137**		µg/kg dry	73.0	38.6	1	"	"	"	"	"	X
86-73-7	Fluorene	**145**		µg/kg dry	73.0	37.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.0	U	µg/kg dry	73.0	26.3	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**1,400**		µg/kg dry	73.0	44.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	**625**		µg/kg dry	73.0	34.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**393**		µg/kg dry	73.0	34.0	1	"	"	"	"	"	X
129-00-0	Pyrene	**207**		µg/kg dry	73.0	40.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**737**		µg/kg dry	73.0	35.9	1	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*60*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*55*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*66*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**90.8**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-05	17-258	Soil	03-Jan-18 16:42	06-Jan-18
SC42941-06				

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	08-Jan-18		BD	1800271	
Volatile Organic Full Aromatics by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 14.64 g						
71-43-2	Benzene	< 81.0	UJL, D	µg/kg dry	81.0	21.5	50	SW846 8260C	17-Jan-18	17-Jan-18	MP	1800645	X
104-51-8	n-Butylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	23.2	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	14.7	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	18.1	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	11.7	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	16.0	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 81.0	UJL, D	µg/kg dry	81.0	17.4	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 81.0	UJL, D	µg/kg dry	81.0	29.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 81.0	UJL, D	µg/kg dry	81.0	48.2	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	13.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 81.0	UJL, D	µg/kg dry	81.0	26.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	19.7	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 81.0	UJL, D	µg/kg dry	81.0	13.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 162	UJL, D	µg/kg dry	162	14.6	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 81.0	UJL, D	µg/kg dry	81.0	22.7	50	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*98*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 85.7	U	µg/kg dry	85.7	42.7	1	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 85.7	U	µg/kg dry	85.7	42.3	1	"	"	"	"	"	X
120-12-7	Anthracene	**64.3**	J	µg/kg dry	85.7	41.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**136**		µg/kg dry	85.7	45.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**120**		µg/kg dry	85.7	31.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**112**		µg/kg dry	85.7	41.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**64.7**	J	µg/kg dry	85.7	34.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**81.8**	J	µg/kg dry	85.7	33.5	1	"	"	"	"	"	X
218-01-9	Chrysene	**127**		µg/kg dry	85.7	42.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 85.7	U	µg/kg dry	85.7	32.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**329**		µg/kg dry	85.7	45.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 85.7	U	µg/kg dry	85.7	43.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**63.8**	J	µg/kg dry	85.7	30.8	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 85.7	U	µg/kg dry	85.7	51.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 85.7	U	µg/kg dry	85.7	40.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**278**		µg/kg dry	85.7	39.9	1	"	"	"	"	"	X
129-00-0	Pyrene	**239**		µg/kg dry	85.7	47.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 85.7	U	µg/kg dry	85.7	42.2	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-05 SC42941-06	17-258	Soil	03-Jan-18 16:42	06-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	
4165-60-0	*Nitrobenzene-d5*	*46*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**77.3**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-07 SC42941-07	17-258	Soil	04-Jan-18 11:55	06-Jan-18

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	08-Jan-18		BD	1800271	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.85 g							
71-43-2	Benzene	< 7.1	UJL	µg/kg dry	7.1	1.9	1	SW846 8260C	12-Jan-18	12-Jan-18	MP	1800435	X
104-51-8	n-Butylbenzene	< 7.1	UJL	µg/kg dry	7.1	2.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.6	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.1	UJL	µg/kg dry	7.1	1.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.1	UJL	µg/kg dry	7.1	2.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.1	UJL	µg/kg dry	7.1	4.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.1	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.1	UJL	µg/kg dry	7.1	2.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**2.6**	UJL	µg/kg dry	7.1	1.7	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.1	UJL	µg/kg dry	7.1	1.2	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.1	UJL	µg/kg dry	14.1	1.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.1	UJL	µg/kg dry	7.1	2.0	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*124*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 86.5	U	µg/kg dry	86.5	43.0	1	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 86.5	U	µg/kg dry	86.5	42.6	1	"	"	"	"	"	X
120-12-7	Anthracene	**55.7**	J	µg/kg dry	86.5	41.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**364**		µg/kg dry	86.5	45.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**379**		µg/kg dry	86.5	32.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**340**		µg/kg dry	86.5	41.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**229**		µg/kg dry	86.5	34.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**342**		µg/kg dry	86.5	33.8	1	"	"	"	"	"	X
218-01-9	Chrysene	**414**		µg/kg dry	86.5	43.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**70.4**	J	µg/kg dry	86.5	33.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**619**		µg/kg dry	86.5	45.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 86.5	U	µg/kg dry	86.5	43.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**221**		µg/kg dry	86.5	31.1	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**57.5**	J	µg/kg dry	86.5	52.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 86.5	U	µg/kg dry	86.5	40.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**322**		µg/kg dry	86.5	40.2	1	"	"	"	"	"	X
129-00-0	Pyrene	**568**		µg/kg dry	86.5	48.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**42.8**	J	µg/kg dry	86.5	42.5	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-07 SC42941-07	17-258	Soil	04-Jan-18 11:55	06-Jan-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	
4165-60-0	*Nitrobenzene-d5*	*52*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*58*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**76.8**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-09 SC42941-08	17-258	Soil	04-Jan-18 13:16	06-Jan-18

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	08-Jan-18		BD	1800271	
Volatile Organic Full Aromatics by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.89 g							
71-43-2	Benzene	< 7.7	UJL	µg/kg dry	7.7	2.0	1	SW846 8260C	12-Jan-18	12-Jan-18	MP	1800435	X
104-51-8	n-Butylbenzene	< 7.7	UJL	µg/kg dry	7.7	2.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.5	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.7	UJL	µg/kg dry	7.7	1.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.7	UJL	µg/kg dry	7.7	2.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.7	UJL	µg/kg dry	7.7	4.6	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.2	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.7	UJL	µg/kg dry	7.7	2.5	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.7	UJL	µg/kg dry	7.7	1.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.4	UJL	µg/kg dry	15.4	1.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.7	UJL	µg/kg dry	7.7	2.2	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*92*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*132*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3546													
83-32-9	Acenaphthene	**681**	J, D	µg/kg dry	836	416	10	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 836	U, D	µg/kg dry	836	412	10	"	"	"	"	"	X
120-12-7	Anthracene	**1,540**	D	µg/kg dry	836	400	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**4,380**	D	µg/kg dry	836	441	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**5,070**	D	µg/kg dry	836	311	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**5,270**	D	µg/kg dry	836	405	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**2,870**	D	µg/kg dry	836	336	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**3,890**	D	µg/kg dry	836	327	10	"	"	"	"	"	X
218-01-9	Chrysene	**4,710**	D	µg/kg dry	836	417	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**981**	D	µg/kg dry	836	321	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**9,500**	D	µg/kg dry	836	441	10	"	"	"	"	"	X
86-73-7	Fluorene	**693**	J, D	µg/kg dry	836	425	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**2,980**	D	µg/kg dry	836	301	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**614**	J, D	µg/kg dry	836	505	10	"	"	"	"	"	X
91-20-3	Naphthalene	**547**	J, D	µg/kg dry	836	390	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**7,110**	D	µg/kg dry	836	389	10	"	"	"	"	"	X
129-00-0	Pyrene	**7,030**	D	µg/kg dry	836	466	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**484**	J, D	µg/kg dry	836	411	10	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-09 SC42941-08	17-258	Soil	04-Jan-18 13:16	06-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*53*			*30-130 %*			SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	
4165-60-0	*Nitrobenzene-d5*	*51*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**79.6**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-01	17-258	Soil	04-Jan-18 09:16	06-Jan-18
SC42941-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 767	U, D	µg/kg dry	767	382	10	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 767	U, D	µg/kg dry	767	378	10	"	"	"	"	"	X
120-12-7	Anthracene	< 767	U, D	µg/kg dry	767	367	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,750**	D	µg/kg dry	767	405	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,700**	D	µg/kg dry	767	285	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,660**	D	µg/kg dry	767	371	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**820**	D	µg/kg dry	767	308	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,570**	D	µg/kg dry	767	300	10	"	"	"	"	"	X
218-01-9	Chrysene	**1,570**	D	µg/kg dry	767	383	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 767	U, D	µg/kg dry	767	294	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**2,790**	D	µg/kg dry	767	405	10	"	"	"	"	"	X
86-73-7	Fluorene	< 767	U, D	µg/kg dry	767	390	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**962**	D	µg/kg dry	767	276	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 767	U, D	µg/kg dry	767	463	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 767	U, D	µg/kg dry	767	357	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,180**	D	µg/kg dry	767	357	10	"	"	"	"	"	X
129-00-0	Pyrene	**2,310**	D	µg/kg dry	767	428	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 767	U, D	µg/kg dry	767	377	10	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*57*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*54*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 22.6	U	µg/kg dry	22.6	10.1	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 22.6	U	µg/kg dry	22.6	12.0	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.6	U	µg/kg dry	22.6	11.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.6	U	µg/kg dry	22.6	22.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.6	U	µg/kg dry	22.6	20.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.6	U	µg/kg dry	22.6	14.8	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 22.6	U	µg/kg dry	22.6	13.1	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.6	U	µg/kg dry	22.6	19.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.6	U	µg/kg dry	22.6	10.2	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*115*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.72	U	mg/kg dry	1.72	0.186	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**6.71**		mg/kg dry	1.72	0.218	1	"	"	"	"	"	X

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-01	17-258	Soil	04-Jan-18 09:16	06-Jan-18
SC42941-09				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**542**		mg/kg dry	1.15	0.135	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**1.16**		mg/kg dry	0.573	0.0297	1	"	"	"	"	"	X
7440-47-3	Chromium	**19.6**		mg/kg dry	1.15	0.152	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.237**		mg/kg dry	0.0304	0.0084	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**199**		mg/kg dry	1.72	0.243	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.72	U	mg/kg dry	1.72	0.328	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.2**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-02	17-258	Soil	04-Jan-18 09:32	06-Jan-18
SC42941-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 156	U, D	µg/kg dry	156	77.5	2	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 156	U, D	µg/kg dry	156	76.8	2	"	"	"	"	"	X
120-12-7	Anthracene	**88.7**	J, D	µg/kg dry	156	74.5	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**393**	D	µg/kg dry	156	82.2	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**391**	D	µg/kg dry	156	58.0	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**379**	D	µg/kg dry	156	75.4	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**218**	D	µg/kg dry	156	62.6	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**307**	D	µg/kg dry	156	60.9	2	"	"	"	"	"	X
218-01-9	Chrysene	**393**	D	µg/kg dry	156	77.7	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**61.5**	J, D	µg/kg dry	156	59.8	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**766**	D	µg/kg dry	156	82.3	2	"	"	"	"	"	X
86-73-7	Fluorene	< 156	U, D	µg/kg dry	156	79.1	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**235**	D	µg/kg dry	156	56.0	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 156	U, D	µg/kg dry	156	94.1	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 156	U, D	µg/kg dry	156	72.6	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**459**	D	µg/kg dry	156	72.5	2	"	"	"	"	"	X
129-00-0	Pyrene	**635**	D	µg/kg dry	156	86.8	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 156	U, D	µg/kg dry	156	76.6	2	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*50*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*65*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 22.9	U	µg/kg dry	22.9	10.3	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 22.9	U	µg/kg dry	22.9	12.2	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9	U	µg/kg dry	22.9	11.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9	U	µg/kg dry	22.9	22.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9	U	µg/kg dry	22.9	20.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9	U	µg/kg dry	22.9	15.0	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	**98.4**		µg/kg dry	22.9	12.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9	U	µg/kg dry	22.9	20.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9	U	µg/kg dry	22.9	10.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*115*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*120*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.74	U	mg/kg dry	1.74	0.188	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**6.36**		mg/kg dry	1.74	0.221	1	"	"	"	"	"	X

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-02	17-258	Soil	04-Jan-18 09:32	06-Jan-18
SC42941-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**80.5**		mg/kg dry	1.16	0.137	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**0.732**		mg/kg dry	0.581	0.0301	1	"	"	"	"	"	X
7440-47-3	Chromium	**8.94**		mg/kg dry	1.16	0.154	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.197**		mg/kg dry	0.0346	0.0096	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**44.1**		mg/kg dry	1.74	0.246	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.74	U	mg/kg dry	1.74	0.332	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.1**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-03	17-258	Soil	04-Jan-18 09:47	06-Jan-18
SC42941-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 386	U, D	µg/kg dry	386	192	5	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 386	U, D	µg/kg dry	386	190	5	"	"	"	"	"	X
120-12-7	Anthracene	**316**	J, D	µg/kg dry	386	184	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**2,320**	D	µg/kg dry	386	204	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**2,280**	D	µg/kg dry	386	144	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**2,070**	D	µg/kg dry	386	187	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,220**	D	µg/kg dry	386	155	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,900**	D	µg/kg dry	386	151	5	"	"	"	"	"	X
218-01-9	Chrysene	**2,340**	D	µg/kg dry	386	193	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**334**	J, D	µg/kg dry	386	148	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**4,840**	D	µg/kg dry	386	204	5	"	"	"	"	"	X
86-73-7	Fluorene	< 386	U, D	µg/kg dry	386	196	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**1,360**	D	µg/kg dry	386	139	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**239**	J, D	µg/kg dry	386	233	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 386	U, D	µg/kg dry	386	180	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,760**	D	µg/kg dry	386	180	5	"	"	"	"	"	X
129-00-0	Pyrene	**4,250**	D	µg/kg dry	386	215	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**210**	J, D	µg/kg dry	386	190	5	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*54*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*48*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*59*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 22.8	U	µg/kg dry	22.8	10.2	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 22.8	U	µg/kg dry	22.8	12.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.8	U	µg/kg dry	22.8	11.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.8	U	µg/kg dry	22.8	22.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.8	U	µg/kg dry	22.8	20.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.8	U	µg/kg dry	22.8	14.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.8	U	µg/kg dry	22.8	12.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.8	U	µg/kg dry	22.8	19.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.8	U	µg/kg dry	22.8	10.3	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*55*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*110*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.74	U	mg/kg dry	1.74	0.188	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**8.42**		mg/kg dry	1.74	0.220	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-03 SC42941-11	17-258	Soil	04-Jan-18 09:47	06-Jan-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**61.0**		mg/kg dry	1.16	0.137	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**0.620**		mg/kg dry	0.579	0.0300	1	"	"	"	"	"	X
7440-47-3	Chromium	**9.54**		mg/kg dry	1.16	0.154	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.136**		mg/kg dry	0.0327	0.0091	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**88.3**		mg/kg dry	1.74	0.246	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.74	U	mg/kg dry	1.74	0.331	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.1**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-04	17-258	Soil	04-Jan-18 10:02	06-Jan-18
SC42941-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 75.8	U	µg/kg dry	75.8	37.7	1	SW846 8270D	09-Jan-18	15-Jan-18	MSL	1800278	X
208-96-8	Acenaphthylene	< 75.8	U	µg/kg dry	75.8	37.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 75.8	U	µg/kg dry	75.8	36.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**180**		µg/kg dry	75.8	40.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**185**		µg/kg dry	75.8	28.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**194**		µg/kg dry	75.8	36.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**113**		µg/kg dry	75.8	30.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**159**		µg/kg dry	75.8	29.7	1	"	"	"	"	"	X
218-01-9	Chrysene	**187**		µg/kg dry	75.8	37.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**32.6**	J	µg/kg dry	75.8	29.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**321**		µg/kg dry	75.8	40.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 75.8	U	µg/kg dry	75.8	38.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**113**		µg/kg dry	75.8	27.3	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 75.8	U	µg/kg dry	75.8	45.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 75.8	U	µg/kg dry	75.8	35.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**161**		µg/kg dry	75.8	35.3	1	"	"	"	"	"	X
129-00-0	Pyrene	**271**		µg/kg dry	75.8	42.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 75.8	U	µg/kg dry	75.8	37.3	1	"	"	"	"	"	
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*44*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 22.4	U	µg/kg dry	22.4	10.0	1	SW846 8082A	12-Jan-18	15-Jan-18	AM	1800429	X
11104-28-2	Aroclor-1221	< 22.4	U	µg/kg dry	22.4	11.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.4	U	µg/kg dry	22.4	11.2	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.4	U	µg/kg dry	22.4	22.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.4	U	µg/kg dry	22.4	20.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.4	U	µg/kg dry	22.4	14.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.4	U	µg/kg dry	22.4	12.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.4	U	µg/kg dry	22.4	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4	U	µg/kg dry	22.4	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.70	U	mg/kg dry	1.70	0.183	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-38-2	Arsenic	**6.22**		mg/kg dry	1.70	0.215	1	"	"	"	"	"	X

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SURF-04	17-258	Soil	04-Jan-18 10:02	06-Jan-18
SC42941-12				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**44.2**		mg/kg dry	1.13	0.133	1	SW846 6010C	10-Jan-18	11-Jan-18	SJR/T	1800269	X
7440-43-9	Cadmium	**0.559**	J	mg/kg dry	0.565	0.0293	1	"	"	"	"	"	X
7440-47-3	Chromium	**15.2**		mg/kg dry	1.13	0.150	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.207**		mg/kg dry	0.0296	0.0082	1	SW846 7471B	"	11-Jan-18	ABW	1800270	X
Prepared by method SW846 3050B													
7439-92-1	Lead	**32.1**		mg/kg dry	1.70	0.240	1	SW846 6010C	"	11-Jan-18	SJR/T	1800269	X
7782-49-2	Selenium	< 1.70	U	mg/kg dry	1.70	0.323	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G (11) Mod.	09-Jan-18	09-Jan-18	TN	1800308	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
Blank (1800329-BLK1)					Prepared & Analyzed: 10-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	D	µg/kg wet	50.0						
Acetone	< 500	D	µg/kg wet	500						
Acrylonitrile	< 50.0	D	µg/kg wet	50.0						
Benzene	< 50.0	D	µg/kg wet	50.0						
Benzene	< 50.0	D	µg/kg wet	50.0						
Bromobenzene	< 50.0	D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	D	µg/kg wet	50.0						
Bromoform	< 50.0	D	µg/kg wet	50.0						
Bromomethane	< 100	D	µg/kg wet	100						
2-Butanone (MEK)	< 100	D	µg/kg wet	100						
n-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
n-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
Carbon disulfide	< 100	D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	D	µg/kg wet	50.0						
Chloroethane	< 100	D	µg/kg wet	100						
Chloroform	< 50.0	D	µg/kg wet	50.0						
Chloromethane	< 100	D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	D	µg/kg wet	100						
Dibromochloromethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	D	µg/kg wet	50.0						
Dibromomethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	D	µg/kg wet	100						
Isopropylbenzene	< 50.0	D	µg/kg wet	50.0						
Isopropylbenzene	< 50.0	D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
Blank (1800329-BLK1)					Prepared & Analyzed: 10-Jan-18					
4-Isopropyltoluene	< 50.0	D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	D	µg/kg wet	100						
Methylene chloride	< 100	D	µg/kg wet	100						
Naphthalene	< 50.0	D	µg/kg wet	50.0						
Naphthalene	< 50.0	D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	D	µg/kg wet	50.0						
Styrene	< 50.0	D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	D	µg/kg wet	50.0						
Toluene	< 50.0	D	µg/kg wet	50.0						
Toluene	< 50.0	D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
Trichloroethene	< 50.0	D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
m,p-Xylene	< 100	D	µg/kg wet	100						
Vinyl chloride	< 50.0	D	µg/kg wet	50.0						
o-Xylene	< 50.0	D	µg/kg wet	50.0						
m,p-Xylene	< 100	D	µg/kg wet	100						
o-Xylene	< 50.0	D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	D	µg/kg wet	100						
Ethyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	D	µg/kg wet	500						
1,4-Dioxane	< 1000	D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	D	µg/kg wet	250						
Ethanol	< 10000	D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*47.3*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: 4-Bromofluorobenzene	*47.3*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.1*		µg/kg		*50.0*		*106*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.1*		µg/kg		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/kg		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/kg		*50.0*		*108*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
LCS (1800329-BS1)					Prepared & Analyzed: 10-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.4**	D	µg/kg		20.0		87	70-130		
Acetone	**18.4**	D	µg/kg		20.0		92	70-130		
Acrylonitrile	**17.3**	D	µg/kg		20.0		87	70-130		
Benzene	**22.4**	D	µg/kg		20.0		112	70-130		
Benzene	**22.4**	D	µg/kg		20.0		112	70-130		
Bromobenzene	**21.9**	D	µg/kg		20.0		110	70-130		
Bromochloromethane	**22.9**	D	µg/kg		20.0		115	70-130		
Bromodichloromethane	**21.5**	D	µg/kg		20.0		107	70-130		
Bromoform	**21.2**	D	µg/kg		20.0		106	70-130		
Bromomethane	**20.7**	D	µg/kg		20.0		104	70-130		
2-Butanone (MEK)	**19.2**	D	µg/kg		20.0		96	70-130		
n-Butylbenzene	**20.7**	D	µg/kg		20.0		104	70-130		
n-Butylbenzene	**20.7**	D	µg/kg		20.0		104	70-130		
sec-Butylbenzene	**21.6**	D	µg/kg		20.0		108	70-130		
sec-Butylbenzene	**21.6**	D	µg/kg		20.0		108	70-130		
tert-Butylbenzene	**21.9**	D	µg/kg		20.0		110	70-130		
tert-Butylbenzene	**21.9**	D	µg/kg		20.0		110	70-130		
Carbon disulfide	**20.1**	D	µg/kg		20.0		100	70-130		
Carbon tetrachloride	**21.4**	D	µg/kg		20.0		107	70-130		
Chlorobenzene	**21.0**	D	µg/kg		20.0		105	70-130		
Chloroethane	**14.8**	D	µg/kg		20.0		74	70-130		
Chloroform	**21.0**	D	µg/kg		20.0		105	70-130		
Chloromethane	**14.4**	D	µg/kg		20.0		72	70-130		
2-Chlorotoluene	**24.3**	D	µg/kg		20.0		121	70-130		
4-Chlorotoluene	**21.4**	D	µg/kg		20.0		107	70-130		
1,2-Dibromo-3-chloropropane	**20.7**	D	µg/kg		20.0		104	70-130		
Dibromochloromethane	**21.0**	D	µg/kg		20.0		105	70-130		
1,2-Dibromoethane (EDB)	**21.7**	D	µg/kg		20.0		109	70-130		
Dibromomethane	**21.4**	D	µg/kg		20.0		107	70-130		
1,2-Dichlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130		
1,3-Dichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130		
1,4-Dichlorobenzene	**20.0**	D	µg/kg		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	**18.2**	D	µg/kg		20.0		91	70-130		
1,1-Dichloroethane	**22.0**	D	µg/kg		20.0		110	70-130		
1,2-Dichloroethane	**20.5**	D	µg/kg		20.0		102	70-130		
1,1-Dichloroethene	**16.2**	D	µg/kg		20.0		81	70-130		
cis-1,2-Dichloroethene	**23.7**	D	µg/kg		20.0		118	70-130		
trans-1,2-Dichloroethene	**21.5**	D	µg/kg		20.0		108	70-130		
1,2-Dichloropropane	**21.7**	D	µg/kg		20.0		108	70-130		
1,3-Dichloropropane	**20.8**	D	µg/kg		20.0		104	70-130		
2,2-Dichloropropane	**22.5**	D	µg/kg		20.0		112	70-130		
1,1-Dichloropropene	**21.2**	D	µg/kg		20.0		106	70-130		
cis-1,3-Dichloropropene	**21.1**	D	µg/kg		20.0		106	70-130		
trans-1,3-Dichloropropene	**20.4**	D	µg/kg		20.0		102	70-130		
Ethylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
Ethylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
Hexachlorobutadiene	**22.7**	D	µg/kg		20.0		114	70-130		
2-Hexanone (MBK)	**20.3**	D	µg/kg		20.0		101	70-130		
Isopropylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
Isopropylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
LCS (1800329-BS1)						Prepared & Analyzed: 10-Jan-18				
4-Isopropyltoluene	**21.2**	D	µg/kg		20.0		106	70-130		
4-Isopropyltoluene	**21.2**	D	µg/kg		20.0		106	70-130		
Methyl tert-butyl ether	**22.1**	D	µg/kg		20.0		111	70-130		
Methyl tert-butyl ether	**22.1**	D	µg/kg		20.0		111	70-130		
4-Methyl-2-pentanone (MIBK)	**20.6**	D	µg/kg		20.0		103	70-130		
Methylene chloride	**16.7**	D	µg/kg		20.0		84	70-130		
Naphthalene	**16.7**	D	µg/kg		20.0		84	70-130		
Naphthalene	**16.7**	D	µg/kg		20.0		84	70-130		
n-Propylbenzene	**20.9**	D	µg/kg		20.0		104	70-130		
n-Propylbenzene	**20.9**	D	µg/kg		20.0		104	70-130		
Styrene	**21.6**	D	µg/kg		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	**22.4**	D	µg/kg		20.0		112	70-130		
1,1,2,2-Tetrachloroethane	**21.7**	D	µg/kg		20.0		109	70-130		
Tetrachloroethene	**20.4**	D	µg/kg		20.0		102	70-130		
Toluene	**21.2**	D	µg/kg		20.0		106	70-130		
Toluene	**21.2**	D	µg/kg		20.0		106	70-130		
1,2,3-Trichlorobenzene	**19.3**	D	µg/kg		20.0		96	70-130		
1,2,4-Trichlorobenzene	**18.8**	D	µg/kg		20.0		94	70-130		
1,3,5-Trichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
1,1,1-Trichloroethane	**21.1**	D	µg/kg		20.0		106	70-130		
1,1,2-Trichloroethane	**21.6**	D	µg/kg		20.0		108	70-130		
Trichloroethene	**20.0**	D	µg/kg		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	**17.3**	D	µg/kg		20.0		87	70-130		
1,2,3-Trichloropropane	**21.1**	D	µg/kg		20.0		106	70-130		
1,2,4-Trimethylbenzene	**21.3**	D	µg/kg		20.0		107	70-130		
1,2,4-Trimethylbenzene	**21.3**	D	µg/kg		20.0		107	70-130		
1,3,5-Trimethylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
1,3,5-Trimethylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
Vinyl chloride	**12.4**	QC2, D	µg/kg		20.0		62	70-130		
m,p-Xylene	**21.3**	D	µg/kg		20.0		107	70-130		
o-Xylene	**21.6**	D	µg/kg		20.0		108	70-130		
m,p-Xylene	**21.3**	D	µg/kg		20.0		107	70-130		
o-Xylene	**21.6**	D	µg/kg		20.0		108	70-130		
Tetrahydrofuran	**19.9**	D	µg/kg		20.0		100	70-130		
Ethyl ether	**16.1**	D	µg/kg		20.0		81	70-130		
Tert-amyl methyl ether	**21.2**	D	µg/kg		20.0		106	70-130		
Ethyl tert-butyl ether	**22.5**	D	µg/kg		20.0		112	70-130		
Di-isopropyl ether	**21.6**	D	µg/kg		20.0		108	70-130		
Tert-Butanol / butyl alcohol	**199**	D	µg/kg		200		99	70-130		
1,4-Dioxane	**193**	D	µg/kg		200		97	70-130		
trans-1,4-Dichloro-2-butene	**20.2**	D	µg/kg		20.0		101	70-130		
Ethanol	**404**	D	µg/kg		400		101	70-130		
Surrogate: 4-Bromofluorobenzene	*52.9*		µg/kg		*50.0*		*106*	*70-130*		
Surrogate: 4-Bromofluorobenzene	*52.9*		µg/kg		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/kg		*50.0*		*101*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
LCS Dup (1800329-BSD1)					Prepared & Analyzed: 10-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.7**	D	µg/kg		20.0		84	70-130	4	30
Acetone	**18.1**	D	µg/kg		20.0		91	70-130	2	30
Acrylonitrile	**17.6**	D	µg/kg		20.0		88	70-130	2	30
Benzene	**22.2**	D	µg/kg		20.0		111	70-130	1	30
Benzene	**22.2**	D	µg/kg		20.0		111	70-130	1	30
Bromobenzene	**21.5**	D	µg/kg		20.0		108	70-130	2	30
Bromochloromethane	**22.9**	D	µg/kg		20.0		115	70-130	0.1	30
Bromodichloromethane	**22.0**	D	µg/kg		20.0		110	70-130	2	30
Bromoform	**21.3**	D	µg/kg		20.0		107	70-130	0.4	30
Bromomethane	**22.4**	D	µg/kg		20.0		112	70-130	8	30
2-Butanone (MEK)	**21.4**	D	µg/kg		20.0		107	70-130	11	30
n-Butylbenzene	**20.4**	D	µg/kg		20.0		102	70-130	1	30
n-Butylbenzene	**20.4**	D	µg/kg		20.0		102	70-130	1	30
sec-Butylbenzene	**20.8**	D	µg/kg		20.0		104	70-130	4	30
sec-Butylbenzene	**20.8**	D	µg/kg		20.0		104	70-130	4	30
tert-Butylbenzene	**21.2**	D	µg/kg		20.0		106	70-130	3	30
tert-Butylbenzene	**21.2**	D	µg/kg		20.0		106	70-130	3	30
Carbon disulfide	**22.1**	D	µg/kg		20.0		111	70-130	10	30
Carbon tetrachloride	**20.4**	D	µg/kg		20.0		102	70-130	5	30
Chlorobenzene	**20.6**	D	µg/kg		20.0		103	70-130	2	30
Chloroethane	**14.5**	D	µg/kg		20.0		73	70-130	2	30
Chloroform	**20.8**	D	µg/kg		20.0		104	70-130	0.7	30
Chloromethane	**14.1**	D	µg/kg		20.0		70	70-130	2	30
2-Chlorotoluene	**23.5**	D	µg/kg		20.0		118	70-130	3	30
4-Chlorotoluene	**20.8**	D	µg/kg		20.0		104	70-130	3	30
1,2-Dibromo-3-chloropropane	**21.6**	D	µg/kg		20.0		108	70-130	4	30
Dibromochloromethane	**21.1**	D	µg/kg		20.0		106	70-130	0.7	30
1,2-Dibromoethane (EDB)	**21.7**	D	µg/kg		20.0		108	70-130	0.2	30
Dibromomethane	**21.4**	D	µg/kg		20.0		107	70-130	0.3	30
1,2-Dichlorobenzene	**21.7**	D	µg/kg		20.0		109	70-130	2	30
1,3-Dichlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130	2	30
1,4-Dichlorobenzene	**20.0**	D	µg/kg		20.0		100	70-130	0.1	30
Dichlorodifluoromethane (Freon12)	**17.5**	D	µg/kg		20.0		87	70-130	4	30
1,1-Dichloroethane	**22.0**	D	µg/kg		20.0		110	70-130	0.05	30
1,2-Dichloroethane	**20.9**	D	µg/kg		20.0		104	70-130	2	30
1,1-Dichloroethene	**15.0**	D	µg/kg		20.0		75	70-130	8	30
cis-1,2-Dichloroethene	**23.4**	D	µg/kg		20.0		117	70-130	1	30
trans-1,2-Dichloroethene	**21.8**	D	µg/kg		20.0		109	70-130	1	30
1,2-Dichloropropane	**21.9**	D	µg/kg		20.0		110	70-130	0.9	30
1,3-Dichloropropane	**20.9**	D	µg/kg		20.0		104	70-130	0.6	30
2,2-Dichloropropane	**21.7**	D	µg/kg		20.0		109	70-130	3	30
1,1-Dichloropropene	**21.2**	D	µg/kg		20.0		106	70-130	0.4	30
cis-1,3-Dichloropropene	**21.3**	D	µg/kg		20.0		107	70-130	0.9	30
trans-1,3-Dichloropropene	**21.2**	D	µg/kg		20.0		106	70-130	3	30
Ethylbenzene	**20.5**	D	µg/kg		20.0		102	70-130	4	30
Ethylbenzene	**20.5**	D	µg/kg		20.0		102	70-130	4	30
Hexachlorobutadiene	**22.5**	D	µg/kg		20.0		112	70-130	1	30
2-Hexanone (MBK)	**21.4**	D	µg/kg		20.0		107	70-130	6	30
Isopropylbenzene	**20.8**	D	µg/kg		20.0		104	70-130	3	30
Isopropylbenzene	**20.8**	D	µg/kg		20.0		104	70-130	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
LCS Dup (1800329-BSD1)					Prepared & Analyzed: 10-Jan-18					
4-Isopropyltoluene	**21.0**	D	µg/kg		20.0		105	70-130	0.5	30
4-Isopropyltoluene	**21.0**	D	µg/kg		20.0		105	70-130	0.5	30
Methyl tert-butyl ether	**23.0**	D	µg/kg		20.0		115	70-130	4	30
Methyl tert-butyl ether	**23.0**	D	µg/kg		20.0		115	70-130	4	30
4-Methyl-2-pentanone (MIBK)	**21.5**	D	µg/kg		20.0		107	70-130	4	30
Methylene chloride	**16.6**	D	µg/kg		20.0		83	70-130	0.7	30
Naphthalene	**18.0**	D	µg/kg		20.0		90	70-130	7	30
Naphthalene	**18.0**	D	µg/kg		20.0		90	70-130	7	30
n-Propylbenzene	**20.3**	D	µg/kg		20.0		101	70-130	3	30
n-Propylbenzene	**20.3**	D	µg/kg		20.0		101	70-130	3	30
Styrene	**21.1**	D	µg/kg		20.0		106	70-130	2	30
1,1,1,2-Tetrachloroethane	**21.8**	D	µg/kg		20.0		109	70-130	2	30
1,1,2,2-Tetrachloroethane	**22.0**	D	µg/kg		20.0		110	70-130	1	30
Tetrachloroethene	**20.0**	D	µg/kg		20.0		100	70-130	2	30
Toluene	**20.8**	D	µg/kg		20.0		104	70-130	2	30
Toluene	**20.8**	D	µg/kg		20.0		104	70-130	2	30
1,2,3-Trichlorobenzene	**20.3**	D	µg/kg		20.0		102	70-130	5	30
1,2,4-Trichlorobenzene	**20.0**	D	µg/kg		20.0		100	70-130	6	30
1,3,5-Trichlorobenzene	**20.9**	D	µg/kg		20.0		105	70-130	2	30
1,1,1-Trichloroethane	**20.3**	D	µg/kg		20.0		101	70-130	4	30
1,1,2-Trichloroethane	**21.6**	D	µg/kg		20.0		108	70-130	0.09	30
Trichloroethene	**21.1**	D	µg/kg		20.0		105	70-130	5	30
Trichlorofluoromethane (Freon 11)	**17.0**	D	µg/kg		20.0		85	70-130	2	30
1,2,4-Trimethylbenzene	**20.9**	D	µg/kg		20.0		105	70-130	2	30
1,2,3-Trichloropropane	**22.0**	D	µg/kg		20.0		110	70-130	4	30
1,2,4-Trimethylbenzene	**20.9**	D	µg/kg		20.0		105	70-130	2	30
1,3,5-Trimethylbenzene	**20.9**	D	µg/kg		20.0		105	70-130	2	30
1,3,5-Trimethylbenzene	**20.9**	D	µg/kg		20.0		105	70-130	2	30
m,p-Xylene	**20.7**	D	µg/kg		20.0		104	70-130	3	30
Vinyl chloride	**12.0**	QC2, D	µg/kg		20.0		60	70-130	3	30
o-Xylene	**21.2**	D	µg/kg		20.0		106	70-130	2	30
m,p-Xylene	**20.7**	D	µg/kg		20.0		104	70-130	3	30
o-Xylene	**21.2**	D	µg/kg		20.0		106	70-130	2	30
Tetrahydrofuran	**22.7**	D	µg/kg		20.0		114	70-130	13	30
Ethyl ether	**16.2**	D	µg/kg		20.0		81	70-130	0.4	30
Tert-amyl methyl ether	**21.8**	D	µg/kg		20.0		109	70-130	3	30
Ethyl tert-butyl ether	**23.1**	D	µg/kg		20.0		115	70-130	3	30
Di-isopropyl ether	**22.2**	D	µg/kg		20.0		111	70-130	2	30
Tert-Butanol / butyl alcohol	**216**	D	µg/kg		200		108	70-130	8	30
1,4-Dioxane	**210**	D	µg/kg		200		105	70-130	8	30
trans-1,4-Dichloro-2-butene	**21.3**	D	µg/kg		20.0		106	70-130	5	30
Ethanol	**393**	D	µg/kg		400		98	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*52.0*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: 4-Bromofluorobenzene	*52.0*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/kg		*50.0*		*101*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800329 - SW846 5035A Soil (high level)										
Matrix Spike (1800329-MS1)			**Source: SC42941-04**		Prepared & Analyzed: 10-Jan-18					
Benzene	**22.4**	D	µg/kg		20.0	0.0	112	70-130		
n-Butylbenzene	**34.9**	D	µg/kg		20.0	11.6	117	70-130		
sec-Butylbenzene	**28.2**	D	µg/kg		20.0	6.6	108	70-130		
tert-Butylbenzene	**24.5**	D	µg/kg		20.0	1.5	115	70-130		
Ethylbenzene	**23.2**	D	µg/kg		20.0	1.7	107	70-130		
Isopropylbenzene	**29.5**	D	µg/kg		20.0	8.9	103	70-130		
4-Isopropyltoluene	**33.2**	D	µg/kg		20.0	10.6	113	70-130		
Methyl tert-butyl ether	**22.8**	D	µg/kg		20.0	0.0	114	70-130		
Naphthalene	**40.5**	D	µg/kg		20.0	18.9	108	70-130		
n-Propylbenzene	**34.2**	D	µg/kg		20.0	14.3	99	70-130		
Toluene	**21.2**	D	µg/kg		20.0	0.0	106	70-130		
1,2,4-Trimethylbenzene	**88.8**	QM7, D	µg/kg		20.0	76.6	61	70-130		
1,3,5-Trimethylbenzene	**23.1**	D	µg/kg		20.0	1.0	110	70-130		
m,p-Xylene	**22.8**	D	µg/kg		20.0	1.2	108	70-130		
o-Xylene	**20.6**	D	µg/kg		20.0	0.6	100	70-130		
Surrogate: 4-Bromofluorobenzene	*53.3*		µg/kg		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.1*		µg/kg		*50.0*		*90*	*70-130*		
Surrogate: Dibromofluoromethane	*47.9*		µg/kg		*50.0*		*96*	*70-130*		
Matrix Spike Dup (1800329-MSD1)			**Source: SC42941-04**		Prepared & Analyzed: 10-Jan-18					
Benzene	**23.4**	D	µg/kg		20.0	0.0	117	70-130		30
n-Butylbenzene	**35.8**	D	µg/kg		20.0	11.6	121	70-130		30
sec-Butylbenzene	**29.7**	D	µg/kg		20.0	6.6	115	70-130		30
tert-Butylbenzene	**26.2**	D	µg/kg		20.0	1.5	124	70-130		30
Ethylbenzene	**24.4**	D	µg/kg		20.0	1.7	114	70-130		30
Isopropylbenzene	**30.8**	D	µg/kg		20.0	8.9	110	70-130		30
4-Isopropyltoluene	**34.4**	D	µg/kg		20.0	10.6	119	70-130		30
Methyl tert-butyl ether	**24.3**	D	µg/kg		20.0	0.0	122	70-130		30
Naphthalene	**41.2**	D	µg/kg		20.0	18.9	112	70-130		30
n-Propylbenzene	**35.7**	D	µg/kg		20.0	14.3	107	70-130		30
Toluene	**22.6**	D	µg/kg		20.0	0.0	113	70-130		30
1,2,4-Trimethylbenzene	**90.9**	D	µg/kg		20.0	76.6	72	70-130		30
1,3,5-Trimethylbenzene	**24.6**	D	µg/kg		20.0	1.0	118	70-130		30
m,p-Xylene	**24.3**	D	µg/kg		20.0	1.2	116	70-130		30
o-Xylene	**21.7**	D	µg/kg		20.0	0.6	106	70-130		30
Surrogate: 4-Bromofluorobenzene	*53.7*		µg/kg		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.4*		µg/kg		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*48.6*		µg/kg		*50.0*		*97*	*70-130*		
Batch 1800435 - SW846 5035A Soil (low level)										
Blank (1800435-BLK1)					Prepared & Analyzed: 12-Jan-18					
Benzene	< 5.0		µg/kg wet	5.0						
n-Butylbenzene	< 5.0		µg/kg wet	5.0						
sec-Butylbenzene	< 5.0		µg/kg wet	5.0						
tert-Butylbenzene	< 5.0		µg/kg wet	5.0						
Ethylbenzene	< 5.0		µg/kg wet	5.0						
Isopropylbenzene	< 5.0		µg/kg wet	5.0						
4-Isopropyltoluene	< 5.0		µg/kg wet	5.0						
Methyl tert-butyl ether	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800435 - SW846 5035A Soil (low level)										
Blank (1800435-BLK1)					Prepared & Analyzed: 12-Jan-18					
Naphthalene	< 5.0		µg/kg wet	5.0						
n-Propylbenzene	< 5.0		µg/kg wet	5.0						
Toluene	< 5.0		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
m,p-Xylene	< 10.0		µg/kg wet	10.0						
o-Xylene	< 5.0		µg/kg wet	5.0						
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*47.0*		µg/kg		*50.0*		*94*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.9*		µg/kg		*50.0*		*120*	*70-130*		
Surrogate: Dibromofluoromethane	*47.5*		µg/kg		*50.0*		*95*	*70-130*		
LCS (1800435-BS1)					Prepared & Analyzed: 12-Jan-18					
Benzene	**17.3**		µg/kg		20.0		86	70-130		
n-Butylbenzene	**20.7**		µg/kg		20.0		104	70-130		
sec-Butylbenzene	**19.6**		µg/kg		20.0		98	70-130		
tert-Butylbenzene	**19.1**		µg/kg		20.0		95	70-130		
Ethylbenzene	**19.6**		µg/kg		20.0		98	70-130		
Isopropylbenzene	**19.7**		µg/kg		20.0		98	70-130		
4-Isopropyltoluene	**20.3**		µg/kg		20.0		102	70-130		
Methyl tert-butyl ether	**16.8**		µg/kg		20.0		84	70-130		
Naphthalene	**19.0**		µg/kg		20.0		95	70-130		
n-Propylbenzene	**19.9**		µg/kg		20.0		100	70-130		
Toluene	**17.1**		µg/kg		20.0		86	70-130		
1,2,4-Trimethylbenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.4**		µg/kg		20.0		97	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		
Surrogate: 4-Bromofluorobenzene	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*47.2*		µg/kg		*50.0*		*94*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*47.6*		µg/kg		*50.0*		*95*	*70-130*		
LCS Dup (1800435-BSD1)					Prepared & Analyzed: 12-Jan-18					
Benzene	**17.1**		µg/kg		20.0		85	70-130	1	30
n-Butylbenzene	**19.3**		µg/kg		20.0		97	70-130	7	30
sec-Butylbenzene	**19.4**		µg/kg		20.0		97	70-130	0.7	30
tert-Butylbenzene	**18.9**		µg/kg		20.0		95	70-130	0.9	30
Ethylbenzene	**19.3**		µg/kg		20.0		96	70-130	2	30
Isopropylbenzene	**19.4**		µg/kg		20.0		97	70-130	2	30
4-Isopropyltoluene	**19.6**		µg/kg		20.0		98	70-130	4	30
Methyl tert-butyl ether	**16.9**		µg/kg		20.0		85	70-130	0.8	30
Naphthalene	**17.3**		µg/kg		20.0		86	70-130	9	30
n-Propylbenzene	**19.8**		µg/kg		20.0		99	70-130	0.7	30
Toluene	**17.3**		µg/kg		20.0		86	70-130	0.9	30
1,2,4-Trimethylbenzene	**18.4**		µg/kg		20.0		92	70-130	6	30
1,3,5-Trimethylbenzene	**18.9**		µg/kg		20.0		94	70-130	3	30
m,p-Xylene	**19.3**		µg/kg		20.0		96	70-130	1	30
o-Xylene	**19.7**		µg/kg		20.0		98	70-130	0.7	30
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*47.6*		µg/kg		*50.0*		*95*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800435 - SW846 5035A Soil (low level)										
LCS Dup (1800435-BSD1)						Prepared & Analyzed: 12-Jan-18				
Surrogate: 1,2-Dichloroethane-d4	*52.2*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*48.1*		µg/kg		*50.0*		*96*	*70-130*		
Batch 1800645 - SW846 5035A Soil (high level)										
Blank (1800645-BLK1)						Prepared & Analyzed: 17-Jan-18				
Benzene	< 50.0	D	µg/kg wet	50.0						
n-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	D	µg/kg wet	50.0						
Isopropylbenzene	< 50.0	D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
Naphthalene	< 50.0	D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	D	µg/kg wet	50.0						
Toluene	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
m,p-Xylene	< 100	D	µg/kg wet	100						
o-Xylene	< 50.0	D	µg/kg wet	50.0						
Surrogate: 4-Bromofluorobenzene	*48.4*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.9*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg		*50.0*		*102*	*70-130*		
LCS (1800645-BS1)						Prepared & Analyzed: 17-Jan-18				
Benzene	**19.9**	D	µg/kg		20.0		100	70-130		
n-Butylbenzene	**18.2**	D	µg/kg		20.0		91	70-130		
sec-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130		
tert-Butylbenzene	**19.4**	D	µg/kg		20.0		97	70-130		
Ethylbenzene	**19.2**	D	µg/kg		20.0		96	70-130		
Isopropylbenzene	**20.8**	D	µg/kg		20.0		104	70-130		
4-Isopropyltoluene	**19.1**	D	µg/kg		20.0		96	70-130		
Methyl tert-butyl ether	**21.6**	D	µg/kg		20.0		108	70-130		
Naphthalene	**19.9**	D	µg/kg		20.0		100	70-130		
n-Propylbenzene	**19.2**	D	µg/kg		20.0		96	70-130		
Toluene	**19.5**	D	µg/kg		20.0		97	70-130		
1,2,4-Trimethylbenzene	**19.9**	D	µg/kg		20.0		100	70-130		
1,3,5-Trimethylbenzene	**19.4**	D	µg/kg		20.0		97	70-130		
m,p-Xylene	**19.5**	D	µg/kg		20.0		98	70-130		
o-Xylene	**20.3**	D	µg/kg		20.0		102	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.1*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg		*50.0*		*100*	*70-130*		
LCS Dup (1800645-BSD1)						Prepared & Analyzed: 17-Jan-18				
Benzene	**21.0**	D	µg/kg		20.0		105	70-130	5	30
n-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130	4	30
sec-Butylbenzene	**20.6**	D	µg/kg		20.0		103	70-130	8	30
tert-Butylbenzene	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Ethylbenzene	**21.0**	D	µg/kg		20.0		105	70-130	9	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800645 - SW846 5035A Soil (high level)										
LCS Dup (1800645-BSD1)					Prepared & Analyzed: 17-Jan-18					
Isopropylbenzene	**22.3**	D	µg/kg		20.0		111	70-130	7	30
4-Isopropyltoluene	**20.2**	D	µg/kg		20.0		101	70-130	5	30
Methyl tert-butyl ether	**23.7**	D	µg/kg		20.0		118	70-130	9	30
Naphthalene	**20.8**	D	µg/kg		20.0		104	70-130	4	30
n-Propylbenzene	**20.4**	D	µg/kg		20.0		102	70-130	6	30
Toluene	**20.6**	D	µg/kg		20.0		103	70-130	6	30
1,2,4-Trimethylbenzene	**21.6**	D	µg/kg		20.0		108	70-130	8	30
1,3,5-Trimethylbenzene	**20.9**	D	µg/kg		20.0		104	70-130	7	30
m,p-Xylene	**21.1**	D	µg/kg		20.0		105	70-130	8	30
o-Xylene	**22.2**	D	µg/kg		20.0		111	70-130	9	30
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/kg		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Matrix Spike (1800645-MS1)			**Source: SC42941-06**		Prepared & Analyzed: 17-Jan-18					
Benzene	**20.2**	D	µg/kg		20.0	0.0	101	70-130		
n-Butylbenzene	**18.7**	D	µg/kg		20.0	0.0	94	70-130		
sec-Butylbenzene	**17.7**	D	µg/kg		20.0	0.0	88	70-130		
tert-Butylbenzene	**18.9**	D	µg/kg		20.0	0.0	94	70-130		
Ethylbenzene	**19.6**	D	µg/kg		20.0	0.0	98	70-130		
Isopropylbenzene	**20.0**	D	µg/kg		20.0	0.0	100	70-130		
4-Isopropyltoluene	**18.7**	D	µg/kg		20.0	0.0	93	70-130		
Methyl tert-butyl ether	**23.0**	D	µg/kg		20.0	0.0	115	70-130		
Naphthalene	**24.7**	D	µg/kg		20.0	0.0	124	70-130		
n-Propylbenzene	**19.1**	D	µg/kg		20.0	0.0	96	70-130		
Toluene	**19.5**	D	µg/kg		20.0	0.0	98	70-130		
1,2,4-Trimethylbenzene	**22.1**	D	µg/kg		20.0	0.0	110	70-130		
1,3,5-Trimethylbenzene	**20.7**	D	µg/kg		20.0	0.0	104	70-130		
m,p-Xylene	**20.2**	D	µg/kg		20.0	0.0	101	70-130		
o-Xylene	**20.9**	D	µg/kg		20.0	0.0	104	70-130		
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.6*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*46.6*		µg/kg		*50.0*		*93*	*70-130*		
Surrogate: Dibromofluoromethane	*48.9*		µg/kg		*50.0*		*98*	*70-130*		
Matrix Spike Dup (1800645-MSD1)			**Source: SC42941-06**		Prepared & Analyzed: 17-Jan-18					
Benzene	**21.0**	D	µg/kg		20.0	0.0	105	70-130		30
n-Butylbenzene	**19.1**	D	µg/kg		20.0	0.0	96	70-130		30
sec-Butylbenzene	**20.1**	D	µg/kg		20.0	0.0	100	70-130	13	30
tert-Butylbenzene	**21.2**	D	µg/kg		20.0	0.0	106	70-130	12	30
Ethylbenzene	**21.7**	D	µg/kg		20.0	0.0	108	70-130	10	30
Isopropylbenzene	**22.4**	D	µg/kg		20.0	0.0	112	70-130	12	30
4-Isopropyltoluene	**19.8**	D	µg/kg		20.0	0.0	99	70-130	6	30
Methyl tert-butyl ether	**24.2**	D	µg/kg		20.0	0.0	121	70-130		30
Naphthalene	**24.8**	D	µg/kg		20.0	0.0	124	70-130		30
n-Propylbenzene	**20.8**	D	µg/kg		20.0	0.0	104	70-130	9	30
Toluene	**20.7**	D	µg/kg		20.0	0.0	103	70-130		30
1,2,4-Trimethylbenzene	**23.2**	D	µg/kg		20.0	0.0	116	70-130	5	30
1,3,5-Trimethylbenzene	**22.2**	D	µg/kg		20.0	0.0	111	70-130	7	30
m,p-Xylene	**22.3**	D	µg/kg		20.0	0.0	112	70-130	10	30
o-Xylene	**22.7**	D	µg/kg		20.0	0.0	113	70-130		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800645 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1800645-MSD1)			**Source: SC42941-06**		Prepared & Analyzed: 17-Jan-18					
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.3*		µg/kg		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*48.9*		µg/kg		*50.0*		*98*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1800278 - SW846 3546										
Blank (1800278-BLK1)					Prepared & Analyzed: 09-Jan-18					
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						
Fluorene	< 66.3	U	µg/kg wet	66.3						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Pyrene	< 66.3	U	µg/kg wet	66.3						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
Surrogate: 2-Fluorobiphenyl	*1070*		µg/kg wet		*1660*		*65*	*30-130*		
Surrogate: Nitrobenzene-d5	*858*		µg/kg wet		*1660*		*52*	*30-130*		
Surrogate: Terphenyl-dl4	*985*		µg/kg wet		*1660*		*59*	*30-130*		
LCS (1800278-BS1)					Prepared & Analyzed: 09-Jan-18					
Acenaphthene	**1340**		µg/kg wet	66.4	1660		81	40-140		
Acenaphthylene	**1380**		µg/kg wet	66.4	1660		83	40-140		
Anthracene	**1170**		µg/kg wet	66.4	1660		71	40-140		
Benzo (a) anthracene	**1230**		µg/kg wet	66.4	1660		74	40-140		
Benzo (a) pyrene	**1310**		µg/kg wet	66.4	1660		79	40-140		
Benzo (b) fluoranthene	**1350**		µg/kg wet	66.4	1660		81	40-140		
Benzo (g,h,i) perylene	**1420**		µg/kg wet	66.4	1660		85	40-140		
Benzo (k) fluoranthene	**1610**		µg/kg wet	66.4	1660		97	40-140		
Chrysene	**1160**		µg/kg wet	66.4	1660		70	40-140		
Dibenzo (a,h) anthracene	**1410**		µg/kg wet	66.4	1660		85	40-140		
Fluoranthene	**1230**		µg/kg wet	66.4	1660		74	40-140		
Fluorene	**1300**		µg/kg wet	66.4	1660		78	40-140		
Indeno (1,2,3-cd) pyrene	**1270**		µg/kg wet	66.4	1660		77	40-140		
2-Methylnaphthalene	**1290**		µg/kg wet	66.4	1660		78	40-140		
Naphthalene	**1120**		µg/kg wet	66.4	1660		68	40-140		
Phenanthrene	**1160**		µg/kg wet	66.4	1660		70	40-140		
Pyrene	**1110**		µg/kg wet	66.4	1660		67	40-140		
1-Methylnaphthalene	**1170**		µg/kg wet	66.4	1660		71	40-140		
Surrogate: 2-Fluorobiphenyl	*1190*		µg/kg wet		*1660*		*72*	*30-130*		
Surrogate: Nitrobenzene-d5	*1040*		µg/kg wet		*1660*		*63*	*30-130*		
Surrogate: Terphenyl-dl4	*1100*		µg/kg wet		*1660*		*66*	*30-130*		
LCS Dup (1800278-BSD1)					Prepared & Analyzed: 09-Jan-18					
Acenaphthene	**1210**		µg/kg wet	66.4	1660		73	40-140	10	30
Acenaphthylene	**1240**		µg/kg wet	66.4	1660		75	40-140	11	30
Anthracene	**1090**		µg/kg wet	66.4	1660		65	40-140	8	30
Benzo (a) anthracene	**1120**		µg/kg wet	66.4	1660		67	40-140	10	30
Benzo (a) pyrene	**1160**		µg/kg wet	66.4	1660		70	40-140	12	30
Benzo (b) fluoranthene	**1020**		µg/kg wet	66.4	1660		62	40-140	27	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1800278 - SW846 3546										
LCS Dup (1800278-BSD1)					Prepared & Analyzed: 09-Jan-18					
Benzo (g,h,i) perylene	**1060**		µg/kg wet	66.4	1660		64	40-140	29	30
Benzo (k) fluoranthene	**1270**		µg/kg wet	66.4	1660		77	40-140	23	30
Chrysene	**1110**		µg/kg wet	66.4	1660		67	40-140	4	30
Dibenzo (a,h) anthracene	**1140**		µg/kg wet	66.4	1660		69	40-140	21	30
Fluoranthene	**1120**		µg/kg wet	66.4	1660		67	40-140	10	30
Fluorene	**1150**		µg/kg wet	66.4	1660		69	40-140	12	30
Indeno (1,2,3-cd) pyrene	**1060**		µg/kg wet	66.4	1660		64	40-140	18	30
2-Methylnaphthalene	**1130**		µg/kg wet	66.4	1660		68	40-140	13	30
Naphthalene	**1000**		µg/kg wet	66.4	1660		60	40-140	12	30
Phenanthrene	**1050**		µg/kg wet	66.4	1660		64	40-140	9	30
Pyrene	**1140**		µg/kg wet	66.4	1660		68	40-140	2	30
1-Methylnaphthalene	**1060**		µg/kg wet	66.4	1660		64	40-140	10	30
Surrogate: 2-Fluorobiphenyl	*1050*		µg/kg wet		*1660*		*63*	*30-130*		
Surrogate: Nitrobenzene-d5	*893*		µg/kg wet		*1660*		*54*	*30-130*		
Surrogate: Terphenyl-dl4	*1100*		µg/kg wet		*1660*		*66*	*30-130*		
Batch 1800428 - SW846 3546										
Blank (1800428-BLK1)					Prepared: 12-Jan-18 Analyzed: 15-Jan-18					
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						
Fluorene	< 66.3	U	µg/kg wet	66.3						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Pyrene	< 66.3	U	µg/kg wet	66.3						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
Surrogate: 2-Fluorobiphenyl	*657*		µg/kg wet		*1660*		*40*	*30-130*		
Surrogate: Nitrobenzene-d5	*573*		µg/kg wet		*1660*		*35*	*30-130*		
Surrogate: Terphenyl-dl4	*756*		µg/kg wet		*1660*		*46*	*30-130*		
LCS (1800428-BS1)					Prepared: 12-Jan-18 Analyzed: 15-Jan-18					
Acenaphthene	**783**		µg/kg wet	66.7	1670		47	40-140		
Acenaphthylene	**790**		µg/kg wet	66.7	1670		47	40-140		
Anthracene	**683**		µg/kg wet	66.7	1670		41	40-140		
Benzo (a) anthracene	**724**		µg/kg wet	66.7	1670		43	40-140		
Benzo (a) pyrene	**749**		µg/kg wet	66.7	1670		45	40-140		
Benzo (b) fluoranthene	**732**		µg/kg wet	66.7	1670		44	40-140		
Benzo (g,h,i) perylene	**686**		µg/kg wet	66.7	1670		41	40-140		
Benzo (k) fluoranthene	**753**		µg/kg wet	66.7	1670		45	40-140		
Chrysene	**731**		µg/kg wet	66.7	1670		44	40-140		
Dibenzo (a,h) anthracene	**753**		µg/kg wet	66.7	1670		45	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1800428 - SW846 3546										
LCS (1800428-BS1)					Prepared: 12-Jan-18 Analyzed: 15-Jan-18					
Fluoranthene	**725**		µg/kg wet	66.7	1670		43	40-140		
Fluorene	**733**		µg/kg wet	66.7	1670		44	40-140		
Indeno (1,2,3-cd) pyrene	**730**		µg/kg wet	66.7	1670		44	40-140		
2-Methylnaphthalene	**740**		µg/kg wet	66.7	1670		44	40-140		
Naphthalene	**665**		µg/kg wet	66.7	1670		40	40-140		
Phenanthrene	**684**		µg/kg wet	66.7	1670		41	40-140		
Pyrene	**748**		µg/kg wet	66.7	1670		45	40-140		
1-Methylnaphthalene	**695**		µg/kg wet	66.7	1670		42	40-140		
Surrogate: 2-Fluorobiphenyl	*728*		µg/kg wet		*1670*		*44*	*30-130*		
Surrogate: Nitrobenzene-d5	*653*		µg/kg wet		*1670*		*39*	*30-130*		
Surrogate: Terphenyl-dl4	*770*		µg/kg wet		*1670*		*46*	*30-130*		
LCS Dup (1800428-BSD1)					Prepared: 12-Jan-18 Analyzed: 15-Jan-18					
Acenaphthene	**837**		µg/kg wet	66.3	1660		51	40-140	7	30
Acenaphthylene	**848**		µg/kg wet	66.3	1660		51	40-140	7	30
Anthracene	**740**		µg/kg wet	66.3	1660		45	40-140	8	30
Benzo (a) anthracene	**779**		µg/kg wet	66.3	1660		47	40-140	7	30
Benzo (a) pyrene	**819**		µg/kg wet	66.3	1660		49	40-140	9	30
Benzo (b) fluoranthene	**723**		µg/kg wet	66.3	1660		44	40-140	1	30
Benzo (g,h,i) perylene	**736**		µg/kg wet	66.3	1660		44	40-140	7	30
Benzo (k) fluoranthene	**823**		µg/kg wet	66.3	1660		50	40-140	9	30
Chrysene	**795**		µg/kg wet	66.3	1660		48	40-140	8	30
Dibenzo (a,h) anthracene	**815**		µg/kg wet	66.3	1660		49	40-140	8	30
Fluoranthene	**791**		µg/kg wet	66.3	1660		48	40-140	9	30
Fluorene	**799**		µg/kg wet	66.3	1660		48	40-140	9	30
Indeno (1,2,3-cd) pyrene	**801**		µg/kg wet	66.3	1660		48	40-140	9	30
2-Methylnaphthalene	**757**		µg/kg wet	66.3	1660		46	40-140	2	30
Naphthalene	**693**		µg/kg wet	66.3	1660		42	40-140	4	30
Phenanthrene	**729**		µg/kg wet	66.3	1660		44	40-140	6	30
Pyrene	**803**		µg/kg wet	66.3	1660		48	40-140	7	30
1-Methylnaphthalene	**716**		µg/kg wet	66.3	1660		43	40-140	3	30
Surrogate: 2-Fluorobiphenyl	*785*		µg/kg wet		*1660*		*47*	*30-130*		
Surrogate: Nitrobenzene-d5	*653*		µg/kg wet		*1660*		*39*	*30-130*		
Surrogate: Terphenyl-dl4	*833*		µg/kg wet		*1660*		*50*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1800429 - SW846 3546										
Blank (1800429-BLK1)						Prepared: 12-Jan-18 Analyzed: 15-Jan-18				
Aroclor-1016	< 19.4	U	µg/kg wet	19.4						
Aroclor-1016 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1221	< 19.4	U	µg/kg wet	19.4						
Aroclor-1221 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1232	< 19.4	U	µg/kg wet	19.4						
Aroclor-1232 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1242	< 19.4	U	µg/kg wet	19.4						
Aroclor-1242 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1248	< 19.4	U	µg/kg wet	19.4						
Aroclor-1248 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1254	< 19.4	U	µg/kg wet	19.4						
Aroclor-1254 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1260	< 19.4	U	µg/kg wet	19.4						
Aroclor-1260 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1262	< 19.4	U	µg/kg wet	19.4						
Aroclor-1262 [2C]	< 19.4	U	µg/kg wet	19.4						
Aroclor-1268	< 19.4	U	µg/kg wet	19.4						
Aroclor-1268 [2C]	< 19.4	U	µg/kg wet	19.4						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*7.77*		µg/kg wet		*19.4*		*40*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*8.74*		µg/kg wet		*19.4*		*45*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.4*		µg/kg wet		*19.4*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.4*		µg/kg wet		*19.4*		*100*	*30-150*		
LCS (1800429-BS1)						Prepared: 12-Jan-18 Analyzed: 15-Jan-18				
Aroclor-1016	**165**		µg/kg wet	19.4	243		68	40-140		
Aroclor-1016 [2C]	**162**		µg/kg wet	19.4	243		67	40-140		
Aroclor-1260	**180**		µg/kg wet	19.4	243		74	40-140		
Aroclor-1260 [2C]	**189**		µg/kg wet	19.4	243		78	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*8.74*		µg/kg wet		*19.4*		*45*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*8.74*		µg/kg wet		*19.4*		*45*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.5*		µg/kg wet		*19.4*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*22.3*		µg/kg wet		*19.4*		*115*	*30-150*		
LCS Dup (1800429-BSD1)						Prepared: 12-Jan-18 Analyzed: 15-Jan-18				
Aroclor-1016	**178**		µg/kg wet	19.4	243		73	40-140	7	30
Aroclor-1016 [2C]	**176**		µg/kg wet	19.4	243		72	40-140	8	30
Aroclor-1260	**195**		µg/kg wet	19.4	243		80	40-140	8	30
Aroclor-1260 [2C]	**198**		µg/kg wet	19.4	243		82	40-140	5	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*9.71*		µg/kg wet		*19.4*		*50*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.71*		µg/kg wet		*19.4*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.4*		µg/kg wet		*19.4*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*23.3*		µg/kg wet		*19.4*		*120*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1800269 - SW846 3050B										
Blank (1800269-BLK1)						Prepared: 10-Jan-18 Analyzed: 11-Jan-18				
Lead	< 1.49	U	mg/kg wet	1.49						
Chromium	< 0.996	U	mg/kg wet	0.996						
Cadmium	< 0.498	U	mg/kg wet	0.498						
Arsenic	< 1.49	U	mg/kg wet	1.49						
Selenium	< 1.49	U	mg/kg wet	1.49						
Silver	< 1.49	U	mg/kg wet	1.49						
Barium	< 0.996	U	mg/kg wet	0.996						
Reference (1800269-SRM1)						Prepared: 10-Jan-18 Analyzed: 11-Jan-18				
Silver	**18.1**		mg/kg wet	1.50	20.5		88	79.6-120.4		
Arsenic	**68.0**		mg/kg wet	1.50	74.2		92	83-117		
Cadmium	**89.1**		mg/kg wet	0.500	97.4		91	82.4-117.6		
Selenium	**83.8**		mg/kg wet	1.50	94.4		89	79.1-121.4		
Chromium	**39.3**		mg/kg wet	1.00	41.7		94	81.8-118.2		
Lead	**42.2**		mg/kg wet	1.50	46.6		91	82.8-117		
Barium	**158**		mg/kg wet	1.00	158		100	82.2-117.8		
Reference (1800269-SRM2)						Prepared: 10-Jan-18 Analyzed: 11-Jan-18				
Cadmium	**79.3**	QM9	mg/kg wet	0.500	97.2		82	82.4-117.6		
Selenium	**76.6**		mg/kg wet	1.50	94.2		81	79.1-121.4		
Chromium	**36.7**		mg/kg wet	1.00	41.6		88	81.8-118.2		
Arsenic	**63.1**		mg/kg wet	1.50	74.0		85	83-117		
Silver	**16.5**		mg/kg wet	1.50	20.5		80	79.6-120.4		
Lead	**40.7**		mg/kg wet	1.50	46.5		88	82.8-117		
Barium	**145**		mg/kg wet	1.00	158		92	82.2-117.8		
SW846 7471B										
Batch 1800270 - EPA200/SW7000 Series										
Blank (1800270-BLK1)						Prepared: 10-Jan-18 Analyzed: 11-Jan-18				
Mercury	< 0.0283	U	mg/kg wet	0.0283						
Reference (1800270-SRM1)						Prepared: 10-Jan-18 Analyzed: 11-Jan-18				
Mercury	**5.88**	D	mg/kg wet	0.600	5.98		98	66.9-133.1		

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

SC42941-03	*SB-01*	1/8/2018 4:24 PM
SC42941-04	*SB-02*	1/8/2018 4:24 PM
SC42941-05	*SB-03*	1/8/2018 4:24 PM
SC42941-06	*SB-05*	1/8/2018 4:24 PM
SC42941-07	*SB-07*	1/8/2018 4:24 PM
SC42941-08	*SB-09*	1/8/2018 4:24 PM

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).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable 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.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
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
[2C]	Indicates concentration was reported from the secondary, confirmation column.

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.

SC 42941

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CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
- [x] 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: AECOM
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECOM (proj # 17-258)
cbeck@aecomgroup.com

P.O No.: _____ Quote #: _____

Project No: 17-258
Site Name: Syracuse Site
Location: Solar St State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Dinking 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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	SVOCs 8270	RCRA 8 Metals	8082 PCBs	STARS 8260 VOCs	8260 VOCs (Full)	Check if chlorinated
42941-01	Soil Pile 01	1/2/18	1110	C	SO		2			X	X	X			☐
-02	Soil Pile 02	1/3/18	0845	C	SO		2			X	X	X			☐
-03	SB-01	1/3/18	1349	G	SO		2			X			X		☐
-04	SB-02	1/3/18	1451	G	SO		2			X			X		☐
-05	SB-03	1/3/18	1527	G	SO		2			X				X	☐
-06	SB-05	1/3/18	1642	G	SO		1			X			X		☐
-07	SB-07	1/4/18	1155	G	SO		2			X			X		☐
-08	SB-09	1/4/18	1316	G	SO		2			X			X		☐
-09	SURF-01	1/4/18	0916	C	SO		2			X	X	X			☐
-10	SURF-02	1/4/18	0932	C	SO		2			X	X	X			☐

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
- [x] Standard
- [ ] No QC
- [ ] DQA*
- [ ] ASP A*
- [ ] ASP B*
- [ ] NJ Reduced*
- [ ] NJ Full*
- [ ] Tier II*
- [ ] Tier IV*
- [ ] Other: _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:
Drew Brantner	FedEx	1/5/18	~1100
FedEx	Allen	1/6/18	1101

Temp °C: Observed 1.8; Correction Factor 0; Corrected 1.8; IR ID # 1

- [x] EDD format: PDF and Excel
- [x] E-mail to: rmckenna@aecomgroup.com; dbrantner@aecomgroup.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SC42941

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CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- [x] 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 30 days unless otherwise instructed.

Report To: AECC

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: _____

P.O No.: _____ Quote #: _____

Project No: 17-258
Site Name: Syracuse Scale
Location: Solar St State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: STARS 8270 SVOCs	Analysis: RCRA 8 Metals	Analysis: 8082 PCBs	Analysis: STARS 8260 VOCs	Analysis: 8260 VOCs (full)	Check if chlorinated
42941-11	SURF-03	1/4/18	0947	C	SO		2			X	X	X			☐
42941-12	SURF-04	1/4/18	1002	C	SO		2			X	X	X			☐
	e 1/8/18														☐
															☐
															☐
															☐
															☐
															☐
															☐
															☐

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
- [x] Standard
- [ ] No QC
- [ ] DQA*
- [ ] ASP A*
- [ ] ASP B*
- [ ] NJ Reduced*
- [ ] NJ Full*
- [ ] Tier II*
- [ ] Tier IV*
- [ ] Other: _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:
Drew Brantner	FedEx	1/5/18	~1100

Temp °C
Observed
Correction Factor
Corrected
IR ID #

- [ ] EDD format: _____
- [x] E-mail to: rmckenna@aecgroup.com; dbrantner@aecgroup.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

FedEx Express **Package US Airbill**

FedEx Tracking Number **8116 7330 4760**

Form ID No. 0200

1 From

Date 1/5/18

Sender's Name Drew Bantner Phone 315 432-4400

Company AECL

Address 6308 Fly Road Dept./Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference 17-258

3 To

Recipient's Name Sample Drawing Phone 413 789-9018

Company Evotec / Spectrum Analytical

Address 11 Alhambra Blvd Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8116 7330 4760

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery.
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods? One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight ____ lbs. Credit Card Auth. ____

644

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

Batch Summary

1800269

Total Metals by EPA 6000/7000 Series Methods

1800269-BLK1
1800269-SRM1
1800269-SRM2
SC42941-01 (Soil Pile 01)
SC42941-02 (Soil Pile 02)
SC42941-09 (SURF-01)
SC42941-10 (SURF-02)
SC42941-11 (SURF-03)
SC42941-12 (SURF-04)

1800270

Total Metals by EPA 6000/7000 Series Methods

1800270-BLK1
1800270-SRM1
SC42941-01 (Soil Pile 01)
SC42941-02 (Soil Pile 02)
SC42941-09 (SURF-01)
SC42941-10 (SURF-02)
SC42941-11 (SURF-03)
SC42941-12 (SURF-04)

1800278

Semivolatile Organic Compounds by GCMS

1800278-BLK1
1800278-BS1
1800278-BSD1
SC42941-02 (Soil Pile 02)
SC42941-03 (SB-01)
SC42941-04 (SB-02)
SC42941-05 (SB-03)
SC42941-06 (SB-05)
SC42941-07 (SB-07)
SC42941-08 (SB-09)
SC42941-09 (SURF-01)
SC42941-10 (SURF-02)
SC42941-11 (SURF-03)
SC42941-12 (SURF-04)

1800308

General Chemistry Parameters

SC42941-01 (Soil Pile 01)
SC42941-02 (Soil Pile 02)
SC42941-03 (SB-01)
SC42941-04 (SB-02)
SC42941-05 (SB-03)
SC42941-06 (SB-05)
SC42941-07 (SB-07)
SC42941-08 (SB-09)
SC42941-09 (SURF-01)
SC42941-10 (SURF-02)
SC42941-11 (SURF-03)
SC42941-12 (SURF-04)

1800329

Volatile Organic Compounds

1800329-BLK1
1800329-BS1
1800329-BSD1
1800329-MS1
1800329-MSD1
SC42941-04 (SB-02)
SC42941-05 (SB-03)

1800428

Semivolatile Organic Compounds by GCMS

1800428-BLK1
1800428-BS1
1800428-BSD1
SC42941-01 (Soil Pile 01)

1800429

Semivolatile Organic Compounds by GC

1800429-BLK1
1800429-BS1
1800429-BSD1
SC42941-01 (Soil Pile 01)
SC42941-02 (Soil Pile 02)
SC42941-09 (SURF-01)
SC42941-10 (SURF-02)
SC42941-11 (SURF-03)
SC42941-12 (SURF-04)

1800435

Volatile Organic Compounds

1800435-BLK1
1800435-BS1
1800435-BSD1
SC42941-03 (SB-01)
SC42941-07 (SB-07)
SC42941-08 (SB-09)

1800645

Volatile Organic Compounds

1800645-BLK1
1800645-BS1
1800645-BSD1
1800645-MS1
1800645-MSD1
SC42941-06 (SB-05)

S710445

Semivolatile Organic Compounds by GC

S710445-CAL1
S710445-CAL2
S710445-CAL3
S710445-CAL4
S710445-CAL5
S710445-CAL6
S710445-CAL7
S710445-CAL8
S710445-CAL9
S710445-CALA
S710445-CALB
S710445-CALC
S710445-CALD
S710445-CALE
S710445-CALF
S710445-CALG
S710445-CALH
S710445-CALI
S710445-CALJ
S710445-CALK
S710445-CALL
S710445-CALM
S710445-CALN
S710445-CALO
S710445-CALP
S710445-CALQ
S710445-CALR
S710445-CALS
S710445-CALT
S710445-CALU
S710445-ICV1
S710445-ICV2
S710445-ICV3
S710445-ICV4
S710445-ICV5
S710445-ICV6
S710445-LCV1
S710445-LCV2
S710445-LCV3
S710445-LCV4
S710445-LCV5
S710445-LCV6

S710689

Volatile Organic Compounds

S710689-CAL1
S710689-CAL2
S710689-CAL3
S710689-CAL4
S710689-CAL5
S710689-CAL6
S710689-CAL7
S710689-CAL8
S710689-CAL9
S710689-ICV1
S710689-LCV1
S710689-LCV2
S710689-LCV3
S710689-TUN1

S711008

Semivolatile Organic Compounds by GCMS

S711008-CAL1
S711008-CAL2
S711008-CAL3
S711008-CAL4
S711008-CAL5
S711008-CAL6
S711008-CAL7
S711008-CAL8
S711008-CAL9
S711008-CALA
S711008-ICV1
S711008-LCV1
S711008-LCV2
S711008-TUN1

S815731

Volatile Organic Compounds

S815731-CAL1
S815731-CAL2
S815731-CAL3
S815731-CAL4
S815731-CAL5
S815731-CAL6
S815731-CAL7
S815731-CAL8
S815731-CAL9
S815731-ICV1
S815731-LCV1
S815731-TUN1

S815841

Volatile Organic Compounds

S815841-CCV1
S815841-TUN1

S815845

Semivolatile Organic Compounds by GCMS

S815845-CCV1
S815845-TUN1

S815887

Semivolatile Organic Compounds by GCMS

S815887-CCV1
S815887-TUN1

S815918

Volatile Organic Compounds

S815918-CCV1
S815918-TUN1

S815978

Semivolatile Organic Compounds by GC

S815978-CCV1
S815978-CCV2
S815978-CCV3
S815978-CCV4
S815978-IBL1
S815978-IBL2
S815978-IBL3

S815979

Semivolatile Organic Compounds by GCMS

S815979-CCV1
S815979-TUN1

S815980

Semivolatile Organic Compounds by GCMS

S815980-CCV1
S815980-TUN1

S815994

Volatile Organic Compounds

S815994-CAL1
S815994-CAL2
S815994-CAL3
S815994-CAL4
S815994-CAL5
S815994-CAL6
S815994-CAL7
S815994-CAL8
S815994-CAL9
S815994-ICV1
S815994-LCV1
S815994-LCV2
S815994-LCV3
S815994-TUN1

S815999

Volatile Organic Compounds

S815999-CCV1
S815999-TUN1

S816005

Semivolatile Organic Compounds by GCMS

S816005-CCV1
S816005-TUN1

S816059

Semivolatile Organic Compounds by GCMS

S816059-CCV1
S816059-TUN1

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
19-Jan-18 15:58

Laboratory Report
SC42975

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

Project: Syracuse Scale - Solar St - NY
Project #: 17-258

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:

Dawn Wojcik
Laboratory Director

Dawn E Wojcik

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.

Sample Summary

Work Order: SC42975

Project: Syracuse Scale - Solar St - NY

Project Number: 17-258

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC42975-01	TW-01	Ground Water	08-Jan-18 10:14	09-Jan-18 16:35
SC42975-02	TW-02	Ground Water	08-Jan-18 11:14	09-Jan-18 16:35
SC42975-03	TW-03	Ground Water	08-Jan-18 11:52	09-Jan-18 16:35
SC42975-04	TW-04	Ground Water	08-Jan-18 13:35	09-Jan-18 16:35
SC42975-05	TW-05	Ground Water	08-Jan-18 14:39	09-Jan-18 16:35
SC42975-06	Trip Blank	Aqueous	08-Jan-18 00:00	09-Jan-18 16:35

CASE NARRATIVE:

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

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

The samples were received 5.9 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. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

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

SW846 8260C

Calibration:

1801052

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane
Bromodichloromethane
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

1800522-BLK1
1800522-BS1
1800522-BSD1
1800589-BLK1
1800589-BS1
1800589-BSD1
S815896-ICV1
S815952-CCV1
S815976-CCV1
Trip Blank
TW-01
TW-02
TW-03
TW-04
TW-05

Laboratory Control Samples:

1800589 BS/BSD

2,2-Dichloropropane percent recoveries (133/127) 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:

TW-03

SW846 8260C

Laboratory Control Samples:

1800589 BS/BSD

Hexachlorobutadiene percent recoveries (127/132) 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:

TW-03

Samples:

S815976-CCV1

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

1,3,5-Trimethylbenzene (21.6%)
2,2-Dichloropropane (27.4%)
2-Chlorotoluene (21.1%)
Ethylbenzene (21.1%)
Hexachlorobutadiene (31.9%)
Isopropylbenzene (20.8%)
n-Butylbenzene (26.2%)
n-Propylbenzene (21.6%)
sec-Butylbenzene (23.7%)
Styrene (22.3%)
tert-Butylbenzene (23.8%)

This affected the following samples:

1800589-BLK1
1800589-BS1
1800589-BSD1
TW-03

SC42975-02 *TW-02*

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

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	Syracuse Scale - Solar St - NY / 17-258
Work Order:	SC42975
Sample(s) received on:	1/9/2018

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

	Yes	No	N/A
Were custody seals present?	☑	☐	☐
Were custody seals intact?	☑	☐	☐
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
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?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC42975-02 **Client ID:** TW-02

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	217	D	5.00	µg/l	SW846 8260C
4-Isopropyltoluene	10.1	D	5.00	µg/l	SW846 8260C
Benzene	16.0	D	5.00	µg/l	SW846 8260C
Ethylbenzene	75.6	D	5.00	µg/l	SW846 8260C
Isopropylbenzene	28.7	D	5.00	µg/l	SW846 8260C
m,p-Xylene	14.0	D	10.0	µg/l	SW846 8260C
Naphthalene	53.4	D	5.00	µg/l	SW846 8260C
n-Butylbenzene	8.25	D	5.00	µg/l	SW846 8260C
n-Propylbenzene	32.5	D	5.00	µg/l	SW846 8260C
sec-Butylbenzene	7.70	D	5.00	µg/l	SW846 8260C

Lab ID: SC42975-05 **Client ID:** TW-05

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Benzene	6.51		1.00	µg/l	SW846 8260C
Ethylbenzene	3.11		1.00	µg/l	SW846 8260C
Isopropylbenzene	6.26		1.00	µg/l	SW846 8260C
Naphthalene	1.90		1.00	µg/l	SW846 8260C
n-Propylbenzene	3.08		1.00	µg/l	SW846 8260C
sec-Butylbenzene	1.68		1.00	µg/l	SW846 8260C
tert-Butylbenzene	1.46		1.00	µg/l	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	Client Project #	Matrix	Collection Date/Time	Received
TW-01	17-258	Ground Water	08-Jan-18 10:14	09-Jan-18
SC42975-01				

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 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.53	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
67-64-1	Acetone	< 10.0		µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00		µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00		µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-01	17-258	Ground Water	08-Jan-18 10:14	09-Jan-18
SC42975-01				

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													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.36	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200		µg/l	200	30.9	1	"	"	"	"	"	X
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*	*100*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72		µg/l	4.72	0.652	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-01	17-258	Ground Water	08-Jan-18 10:14	09-Jan-18
SC42975-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
208-96-8	Acenaphthylene	< 4.72		µg/l	4.72	0.644	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X
120-12-7	Anthracene	< 4.72		µg/l	4.72	0.574	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72		µg/l	4.72	0.506	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72		µg/l	4.72	0.530	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72		µg/l	4.72	0.412	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72		µg/l	4.72	0.500	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72		µg/l	4.72	0.453	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72		µg/l	4.72	0.502	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72		µg/l	4.72	0.425	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72		µg/l	4.72	0.602	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72		µg/l	4.72	0.577	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72		µg/l	4.72	0.547	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72		µg/l	4.72	0.692	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 4.72		µg/l	4.72	0.542	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72		µg/l	4.72	0.646	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72		µg/l	4.72	0.553	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72		µg/l	4.72	0.575	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*55*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*79*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*45*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-02	17-258	Ground Water	08-Jan-18 11:14	09-Jan-18
SC42975-02				

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 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	D	µg/l	5.00	2.66	5	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
67-64-1	Acetone	< 50.0	D	µg/l	50.0	4.02	5	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.50	D	µg/l	2.50	2.33	5	"	"	"	"	"	X
71-43-2	Benzene	**16.0**	D	µg/l	5.00	1.42	5	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	D	µg/l	5.00	1.66	5	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	D	µg/l	5.00	1.69	5	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.50	D	µg/l	2.50	2.08	5	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	D	µg/l	5.00	2.12	5	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	D	µg/l	10.0	4.48	5	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	D	µg/l	10.0	5.35	5	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**8.25**	D	µg/l	5.00	2.06	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**7.70**	D	µg/l	5.00	1.63	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	D	µg/l	5.00	1.58	5	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	D	µg/l	10.0	2.06	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	D	µg/l	5.00	2.18	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	D	µg/l	5.00	1.24	5	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	D	µg/l	10.0	2.94	5	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	D	µg/l	5.00	1.63	5	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	D	µg/l	10.0	1.84	5	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	D	µg/l	5.00	1.58	5	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	D	µg/l	5.00	1.58	5	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	D	µg/l	10.0	4.32	5	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.50	D	µg/l	2.50	1.58	5	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.50	D	µg/l	2.50	1.01	5	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	D	µg/l	5.00	1.54	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	D	µg/l	5.00	1.38	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	D	µg/l	5.00	1.57	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	D	µg/l	5.00	1.36	5	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	D	µg/l	10.0	2.92	5	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	D	µg/l	5.00	1.62	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	D	µg/l	5.00	1.38	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	D	µg/l	5.00	3.46	5	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	D	µg/l	5.00	1.64	5	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	D	µg/l	5.00	1.88	5	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	D	µg/l	5.00	1.46	5	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	D	µg/l	5.00	1.07	5	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	D	µg/l	5.00	2.09	5	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	D	µg/l	5.00	2.89	5	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.50	D	µg/l	2.50	1.80	5	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.50	D	µg/l	2.50	1.74	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	**75.6**	D	µg/l	5.00	1.64	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.50	D	µg/l	2.50	2.35	5	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	D	µg/l	10.0	2.64	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-02	17-258	Ground Water	08-Jan-18 11:14	09-Jan-18
SC42975-02				

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										
98-82-8	Isopropylbenzene	**28.7**	D	µg/l	5.00	1.80	5	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
99-87-6	4-Isopropyltoluene	**10.1**	D	µg/l	5.00	1.40	5	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	D	µg/l	5.00	1.18	5	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	D	µg/l	10.0	2.58	5	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	D	µg/l	10.0	3.30	5	"	"	"	"	"	X
91-20-3	Naphthalene	**53.4**	D	µg/l	5.00	1.76	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**32.5**	D	µg/l	5.00	1.72	5	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	D	µg/l	5.00	2.02	5	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	D	µg/l	5.00	1.89	5	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.50	D	µg/l	2.50	1.65	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	D	µg/l	5.00	2.85	5	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	D	µg/l	5.00	1.50	5	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	D	µg/l	5.00	1.88	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	D	µg/l	5.00	1.89	5	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	D	µg/l	5.00	1.48	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	D	µg/l	5.00	2.54	5	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	D	µg/l	5.00	1.65	5	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	D	µg/l	5.00	2.48	5	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	D	µg/l	5.00	2.44	5	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	D	µg/l	5.00	1.46	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**217**	D	µg/l	5.00	1.78	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	D	µg/l	5.00	2.16	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	D	µg/l	5.00	2.36	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**14.0**	D	µg/l	10.0	1.90	5	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	D	µg/l	5.00	1.42	5	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	D	µg/l	10.0	5.30	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	D	µg/l	5.00	1.87	5	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	D	µg/l	5.00	2.46	5	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.00	D	µg/l	5.00	1.66	5	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.00	D	µg/l	5.00	1.43	5	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	D	µg/l	50.0	29.5	5	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	D	µg/l	100	57.0	5	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	D	µg/l	25.0	4.10	5	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	D	µg/l	1000	154	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72		µg/l	4.72	0.652	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-02 SC42975-02	17-258	Ground Water	08-Jan-18 11:14	09-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
208-96-8	Acenaphthylene	< 4.72		µg/l	4.72	0.644	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X
120-12-7	Anthracene	< 4.72		µg/l	4.72	0.574	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72		µg/l	4.72	0.506	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72		µg/l	4.72	0.530	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72		µg/l	4.72	0.412	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72		µg/l	4.72	0.500	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72		µg/l	4.72	0.453	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72		µg/l	4.72	0.502	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72		µg/l	4.72	0.425	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72		µg/l	4.72	0.602	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72		µg/l	4.72	0.577	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72		µg/l	4.72	0.547	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72		µg/l	4.72	0.692	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 4.72		µg/l	4.72	0.542	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72		µg/l	4.72	0.646	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72		µg/l	4.72	0.553	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72		µg/l	4.72	0.575	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*25*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*44*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*20*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-03	17-258	Ground Water	08-Jan-18 11:52	09-Jan-18
SC42975-03				

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 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.53	1	SW846 8260C	16-Jan-18	16-Jan-18	GMA	1800589	X
67-64-1	Acetone	< 10.0		µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00		µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00		µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-03	17-258	Ground Water	08-Jan-18 11:52	09-Jan-18
SC42975-03				

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													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.36	1	SW846 8260C	16-Jan-18	16-Jan-18	GMA	1800589	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200		µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72		µg/l	4.72	0.652	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-03 SC42975-03	17-258	Ground Water	08-Jan-18 11:52	09-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
208-96-8	Acenaphthylene	< 4.72		µg/l	4.72	0.644	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X
120-12-7	Anthracene	< 4.72		µg/l	4.72	0.574	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72		µg/l	4.72	0.506	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72		µg/l	4.72	0.530	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72		µg/l	4.72	0.412	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72		µg/l	4.72	0.500	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72		µg/l	4.72	0.453	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72		µg/l	4.72	0.502	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72		µg/l	4.72	0.425	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72		µg/l	4.72	0.602	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72		µg/l	4.72	0.577	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72		µg/l	4.72	0.547	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72		µg/l	4.72	0.692	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 4.72		µg/l	4.72	0.542	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72		µg/l	4.72	0.646	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72		µg/l	4.72	0.553	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72		µg/l	4.72	0.575	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*49*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*70*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*43*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-04	17-258	Ground Water	08-Jan-18 13:35	09-Jan-18
SC42975-04				

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 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.53	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
67-64-1	Acetone	< 10.0		µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00		µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00		µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-04	17-258	Ground Water	08-Jan-18 13:35	09-Jan-18
SC42975-04				

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													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.36	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200		µg/l	200	30.9	1	"	"	"	"	"	X
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*	*101*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 4.72		µg/l	4.72	0.652	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-04	17-258	Ground Water	08-Jan-18 13:35	09-Jan-18
SC42975-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
208-96-8	Acenaphthylene	< 4.72		µg/l	4.72	0.644	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X
120-12-7	Anthracene	< 4.72		µg/l	4.72	0.574	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 4.72		µg/l	4.72	0.506	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 4.72		µg/l	4.72	0.530	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 4.72		µg/l	4.72	0.412	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 4.72		µg/l	4.72	0.500	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 4.72		µg/l	4.72	0.453	1	"	"	"	"	"	X
218-01-9	Chrysene	< 4.72		µg/l	4.72	0.502	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 4.72		µg/l	4.72	0.425	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 4.72		µg/l	4.72	0.602	1	"	"	"	"	"	X
86-73-7	Fluorene	< 4.72		µg/l	4.72	0.577	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 4.72		µg/l	4.72	0.547	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 4.72		µg/l	4.72	0.692	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 4.72		µg/l	4.72	0.542	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.72		µg/l	4.72	0.646	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 4.72		µg/l	4.72	0.553	1	"	"	"	"	"	X
129-00-0	Pyrene	< 4.72		µg/l	4.72	0.575	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*43*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*65*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*39*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-05	17-258	Ground Water	08-Jan-18 14:39	09-Jan-18
SC42975-05				

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 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.53	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
67-64-1	Acetone	< 10.0		µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	**6.51**		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00		µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1.68**		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**1.46**		µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	**3.11**		µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00		µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-05	17-258	Ground Water	08-Jan-18 14:39	09-Jan-18
SC42975-05				

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													
98-82-8	Isopropylbenzene	**6.26**		µg/l	1.00	0.36	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	**1.90**		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**3.08**		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200		µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 5.43		µg/l	5.43	0.751	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-05 SC42975-05	17-258	Ground Water	08-Jan-18 14:39	09-Jan-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
208-96-8	Acenaphthylene	< 5.43		µg/l	5.43	0.742	1	SW846 8270D	12-Jan-18	18-Jan-18	MSL	1800431	X
120-12-7	Anthracene	< 5.43		µg/l	5.43	0.661	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.43		µg/l	5.43	0.583	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.43		µg/l	5.43	0.611	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.43		µg/l	5.43	0.475	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.43		µg/l	5.43	0.576	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.43		µg/l	5.43	0.522	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.43		µg/l	5.43	0.578	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.43		µg/l	5.43	0.489	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.43		µg/l	5.43	0.693	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.43		µg/l	5.43	0.665	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.43		µg/l	5.43	0.630	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.43		µg/l	5.43	0.797	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 5.43		µg/l	5.43	0.624	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.43		µg/l	5.43	0.745	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.43		µg/l	5.43	0.637	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.43		µg/l	5.43	0.663	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*68*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*42*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	17-258	Aqueous	08-Jan-18 00:00	09-Jan-18
SC42975-06				

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 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.53	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
67-64-1	Acetone	< 10.0		µg/l	10.0	0.80	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.42	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	0.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.00		µg/l	2.00	1.07	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.41	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.41	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.25	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	0.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	0.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.86	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.20	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.31	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.27	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.47	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.00		µg/l	2.00	0.53	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	17-258	Aqueous	08-Jan-18 00:00	09-Jan-18
SC42975-06				

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													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.36	1	SW846 8260C	15-Jan-18	16-Jan-18	GMA	1800522	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00	0.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.66	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.35	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.40	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.30	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.51	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.43	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.06	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.33	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.29	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	5.90	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	11.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00	0.82	1	"	"	"	"	"	X
64-17-5	Ethanol	< 200		µg/l	200	30.9	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800522 - SW846 5030 Water MS										
Blank (1800522-BLK1)					Prepared & Analyzed: 15-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 2.00		µg/l	2.00						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 2.00		µg/l	2.00						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800522 - SW846 5030 Water MS										
Blank (1800522-BLK1)					Prepared & Analyzed: 15-Jan-18					
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 200		µg/l	200						
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Dibromofluoromethane	*51.3*		µg/l		*50.0*		*103*	*70-130*		
LCS (1800522-BS1)					Prepared & Analyzed: 15-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.3**		µg/l		20.0		102	70-130		
Acetone	**19.3**		µg/l		20.0		97	70-130		
Acrylonitrile	**21.4**		µg/l		20.0		107	70-130		
Benzene	**21.7**		µg/l		20.0		108	70-130		
Bromobenzene	**22.0**		µg/l		20.0		110	70-130		
Bromochloromethane	**22.4**		µg/l		20.0		112	70-130		
Bromodichloromethane	**20.2**		µg/l		20.0		101	70-130		
Bromoform	**20.3**		µg/l		20.0		102	70-130		
Bromomethane	**21.4**		µg/l		20.0		107	70-130		
2-Butanone (MEK)	**24.0**		µg/l		20.0		120	70-130		
n-Butylbenzene	**20.4**		µg/l		20.0		102	70-130		
sec-Butylbenzene	**21.5**		µg/l		20.0		108	70-130		
tert-Butylbenzene	**21.7**		µg/l		20.0		108	70-130		
Carbon disulfide	**19.8**		µg/l		20.0		99	70-130		
Carbon tetrachloride	**20.2**		µg/l		20.0		101	70-130		
Chlorobenzene	**21.6**		µg/l		20.0		108	70-130		
Chloroethane	**20.3**		µg/l		20.0		101	70-130		
Chloroform	**21.3**		µg/l		20.0		106	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800522 - SW846 5030 Water MS										
LCS (1800522-BS1)					Prepared & Analyzed: 15-Jan-18					
Chloromethane	**18.3**		µg/l		20.0		92	70-130		
2-Chlorotoluene	**22.1**		µg/l		20.0		110	70-130		
4-Chlorotoluene	**22.2**		µg/l		20.0		111	70-130		
1,2-Dibromo-3-chloropropane	**19.7**		µg/l		20.0		99	70-130		
Dibromochloromethane	**20.5**		µg/l		20.0		102	70-130		
1,2-Dibromoethane (EDB)	**20.7**		µg/l		20.0		103	70-130		
Dibromomethane	**22.6**		µg/l		20.0		113	70-130		
1,2-Dichlorobenzene	**21.7**		µg/l		20.0		108	70-130		
1,3-Dichlorobenzene	**22.1**		µg/l		20.0		110	70-130		
1,4-Dichlorobenzene	**20.6**		µg/l		20.0		103	70-130		
Dichlorodifluoromethane (Freon12)	**18.3**		µg/l		20.0		91	70-130		
1,1-Dichloroethane	**21.1**		µg/l		20.0		105	70-130		
1,2-Dichloroethane	**21.5**		µg/l		20.0		107	70-130		
1,1-Dichloroethene	**20.7**		µg/l		20.0		104	70-130		
cis-1,2-Dichloroethene	**21.5**		µg/l		20.0		107	70-130		
trans-1,2-Dichloroethene	**20.5**		µg/l		20.0		102	70-130		
1,2-Dichloropropane	**22.0**		µg/l		20.0		110	70-130		
1,3-Dichloropropane	**22.0**		µg/l		20.0		110	70-130		
2,2-Dichloropropane	**19.0**		µg/l		20.0		95	70-130		
1,1-Dichloropropene	**20.4**		µg/l		20.0		102	70-130		
cis-1,3-Dichloropropene	**19.5**		µg/l		20.0		97	70-130		
trans-1,3-Dichloropropene	**19.7**		µg/l		20.0		98	70-130		
Ethylbenzene	**22.0**		µg/l		20.0		110	70-130		
Hexachlorobutadiene	**21.4**		µg/l		20.0		107	70-130		
2-Hexanone (MBK)	**20.5**		µg/l		20.0		102	70-130		
Isopropylbenzene	**21.3**		µg/l		20.0		107	70-130		
4-Isopropyltoluene	**20.0**		µg/l		20.0		100	70-130		
Methyl tert-butyl ether	**21.1**		µg/l		20.0		106	70-130		
4-Methyl-2-pentanone (MIBK)	**20.4**		µg/l		20.0		102	70-130		
Methylene chloride	**21.1**		µg/l		20.0		106	70-130		
Naphthalene	**20.7**		µg/l		20.0		104	70-130		
n-Propylbenzene	**21.1**		µg/l		20.0		106	70-130		
Styrene	**22.0**		µg/l		20.0		110	70-130		
1,1,1,2-Tetrachloroethane	**20.5**		µg/l		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	**22.5**		µg/l		20.0		112	70-130		
Tetrachloroethene	**20.6**		µg/l		20.0		103	70-130		
Toluene	**21.5**		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	**22.0**		µg/l		20.0		110	70-130		
1,2,4-Trichlorobenzene	**21.3**		µg/l		20.0		107	70-130		
1,3,5-Trichlorobenzene	**21.2**		µg/l		20.0		106	70-130		
1,1,1-Trichloroethane	**21.3**		µg/l		20.0		107	70-130		
1,1,2-Trichloroethane	**22.4**		µg/l		20.0		112	70-130		
Trichloroethene	**19.5**		µg/l		20.0		98	70-130		
Trichlorofluoromethane (Freon 11)	**20.1**		µg/l		20.0		101	70-130		
1,2,3-Trichloropropane	**22.4**		µg/l		20.0		112	70-130		
1,2,4-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	**21.3**		µg/l		20.0		106	70-130		
Vinyl chloride	**20.8**		µg/l		20.0		104	70-130		
m,p-Xylene	**21.0**		µg/l		20.0		105	70-130		
o-Xylene	**22.2**		µg/l		20.0		111	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800522 - SW846 5030 Water MS										
LCS (1800522-BS1)					Prepared & Analyzed: 15-Jan-18					
Tetrahydrofuran	**19.1**		µg/l		20.0		96	70-130		
Ethyl ether	**22.0**		µg/l		20.0		110	70-130		
Tert-amyl methyl ether	**21.5**		µg/l		20.0		108	70-130		
Ethyl tert-butyl ether	**21.3**		µg/l		20.0		106	70-130		
Di-isopropyl ether	**21.3**		µg/l		20.0		107	70-130		
Tert-Butanol / butyl alcohol	**189**		µg/l		200		94	70-130		
1,4-Dioxane	**187**		µg/l		200		93	70-130		
trans-1,4-Dichloro-2-butene	**16.6**		µg/l		20.0		83	70-130		
Ethanol	**389**		µg/l		400		97	70-130		
Surrogate: 4-Bromofluorobenzene	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.5*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*51.4*		µg/l		*50.0*		*103*	*70-130*		
LCS Dup (1800522-BSD1)					Prepared & Analyzed: 15-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.2**		µg/l		20.0		96	70-130	6	20
Acetone	**18.9**		µg/l		20.0		94	70-130	2	20
Acrylonitrile	**21.4**		µg/l		20.0		107	70-130	0.2	20
Benzene	**20.8**		µg/l		20.0		104	70-130	4	20
Bromobenzene	**21.2**		µg/l		20.0		106	70-130	4	20
Bromochloromethane	**22.2**		µg/l		20.0		111	70-130	1	20
Bromodichloromethane	**19.9**		µg/l		20.0		100	70-130	1	20
Bromoform	**19.9**		µg/l		20.0		100	70-130	2	20
Bromomethane	**20.7**		µg/l		20.0		104	70-130	3	20
2-Butanone (MEK)	**24.1**		µg/l		20.0		121	70-130	0.6	20
n-Butylbenzene	**19.1**		µg/l		20.0		95	70-130	6	20
sec-Butylbenzene	**20.2**		µg/l		20.0		101	70-130	6	20
tert-Butylbenzene	**20.3**		µg/l		20.0		101	70-130	7	20
Carbon disulfide	**18.4**		µg/l		20.0		92	70-130	7	20
Carbon tetrachloride	**18.9**		µg/l		20.0		95	70-130	7	20
Chlorobenzene	**20.4**		µg/l		20.0		102	70-130	6	20
Chloroethane	**18.8**		µg/l		20.0		94	70-130	8	20
Chloroform	**20.5**		µg/l		20.0		102	70-130	4	20
Chloromethane	**16.9**		µg/l		20.0		85	70-130	8	20
2-Chlorotoluene	**20.9**		µg/l		20.0		104	70-130	6	20
4-Chlorotoluene	**20.9**		µg/l		20.0		105	70-130	6	20
1,2-Dibromo-3-chloropropane	**19.4**		µg/l		20.0		97	70-130	1	20
Dibromochloromethane	**20.0**		µg/l		20.0		100	70-130	2	20
1,2-Dibromoethane (EDB)	**20.4**		µg/l		20.0		102	70-130	1	20
Dibromomethane	**22.2**		µg/l		20.0		111	70-130	2	20
1,2-Dichlorobenzene	**20.1**		µg/l		20.0		100	70-130	8	20
1,3-Dichlorobenzene	**20.9**		µg/l		20.0		104	70-130	6	20
1,4-Dichlorobenzene	**19.1**		µg/l		20.0		96	70-130	7	20
Dichlorodifluoromethane (Freon12)	**16.9**		µg/l		20.0		84	70-130	8	20
1,1-Dichloroethane	**20.3**		µg/l		20.0		101	70-130	4	20
1,2-Dichloroethane	**21.0**		µg/l		20.0		105	70-130	2	20
1,1-Dichloroethene	**19.4**		µg/l		20.0		97	70-130	7	20
cis-1,2-Dichloroethene	**20.6**		µg/l		20.0		103	70-130	4	20
trans-1,2-Dichloroethene	**19.4**		µg/l		20.0		97	70-130	6	20
1,2-Dichloropropane	**21.3**		µg/l		20.0		106	70-130	3	20
1,3-Dichloropropane	**21.4**		µg/l		20.0		107	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800522 - SW846 5030 Water MS										
LCS Dup (1800522-BSD1)					Prepared & Analyzed: 15-Jan-18					
2,2-Dichloropropane	**17.7**		µg/l		20.0		88	70-130	7	20
1,1-Dichloropropene	**19.2**		µg/l		20.0		96	70-130	6	20
cis-1,3-Dichloropropene	**19.0**		µg/l		20.0		95	70-130	3	20
trans-1,3-Dichloropropene	**19.1**		µg/l		20.0		95	70-130	3	20
Ethylbenzene	**20.6**		µg/l		20.0		103	70-130	7	20
Hexachlorobutadiene	**20.3**		µg/l		20.0		102	70-130	5	20
2-Hexanone (MBK)	**20.2**		µg/l		20.0		101	70-130	1	20
Isopropylbenzene	**20.1**		µg/l		20.0		100	70-130	6	20
4-Isopropyltoluene	**18.7**		µg/l		20.0		93	70-130	7	20
Methyl tert-butyl ether	**20.7**		µg/l		20.0		104	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**20.4**		µg/l		20.0		102	70-130	0.3	20
Methylene chloride	**20.6**		µg/l		20.0		103	70-130	2	20
Naphthalene	**19.8**		µg/l		20.0		99	70-130	5	20
n-Propylbenzene	**19.7**		µg/l		20.0		99	70-130	7	20
Styrene	**20.7**		µg/l		20.0		103	70-130	6	20
1,1,1,2-Tetrachloroethane	**19.7**		µg/l		20.0		98	70-130	4	20
1,1,2,2-Tetrachloroethane	**21.8**		µg/l		20.0		109	70-130	3	20
Tetrachloroethene	**19.4**		µg/l		20.0		97	70-130	6	20
Toluene	**20.5**		µg/l		20.0		102	70-130	5	20
1,2,3-Trichlorobenzene	**20.4**		µg/l		20.0		102	70-130	7	20
1,2,4-Trichlorobenzene	**19.7**		µg/l		20.0		99	70-130	8	20
1,3,5-Trichlorobenzene	**19.7**		µg/l		20.0		99	70-130	7	20
1,1,1-Trichloroethane	**20.0**		µg/l		20.0		100	70-130	7	20
1,1,2-Trichloroethane	**22.2**		µg/l		20.0		111	70-130	0.9	20
Trichloroethene	**18.7**		µg/l		20.0		94	70-130	4	20
Trichlorofluoromethane (Freon 11)	**18.7**		µg/l		20.0		94	70-130	7	20
1,2,3-Trichloropropane	**21.8**		µg/l		20.0		109	70-130	3	20
1,2,4-Trimethylbenzene	**20.2**		µg/l		20.0		101	70-130	5	20
1,3,5-Trimethylbenzene	**20.0**		µg/l		20.0		100	70-130	6	20
Vinyl chloride	**18.5**		µg/l		20.0		92	70-130	12	20
m,p-Xylene	**20.0**		µg/l		20.0		100	70-130	5	20
o-Xylene	**21.0**		µg/l		20.0		105	70-130	5	20
Tetrahydrofuran	**19.0**		µg/l		20.0		95	70-130	0.6	20
Ethyl ether	**21.5**		µg/l		20.0		108	70-130	2	20
Tert-amyl methyl ether	**21.1**		µg/l		20.0		106	70-130	2	20
Ethyl tert-butyl ether	**21.1**		µg/l		20.0		106	70-130	0.8	20
Di-isopropyl ether	**20.9**		µg/l		20.0		104	70-130	2	20
Tert-Butanol / butyl alcohol	**188**		µg/l		200		94	70-130	0.4	20
1,4-Dioxane	**186**		µg/l		200		93	70-130	0.6	20
trans-1,4-Dichloro-2-butene	**17.1**		µg/l		20.0		85	70-130	3	20
Ethanol	**388**		µg/l		400		97	70-130	0.3	20
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.3*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Batch 1800589 - SW846 5030 Water MS										
Blank (1800589-BLK1)					Prepared & Analyzed: 16-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800589 - SW846 5030 Water MS										
Blank (1800589-BLK1)					Prepared & Analyzed: 16-Jan-18					
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 2.00		µg/l	2.00						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 2.00		µg/l	2.00						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 2.00		µg/l	2.00						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800589 - SW846 5030 Water MS										
Blank (1800589-BLK1)					Prepared & Analyzed: 16-Jan-18					
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 200		µg/l	200						
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*52.2*		µg/l		*50.0*		*104*	*70-130*		
LCS (1800589-BS1)					Prepared & Analyzed: 16-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**25.0**		µg/l		20.0		125	70-130		
Acetone	**19.2**		µg/l		20.0		96	70-130		
Acrylonitrile	**22.5**		µg/l		20.0		112	70-130		
Benzene	**24.1**		µg/l		20.0		120	70-130		
Bromobenzene	**23.9**		µg/l		20.0		120	70-130		
Bromochloromethane	**24.2**		µg/l		20.0		121	70-130		
Bromodichloromethane	**22.6**		µg/l		20.0		113	70-130		
Bromoform	**21.9**		µg/l		20.0		109	70-130		
Bromomethane	**21.2**		µg/l		20.0		106	70-130		
2-Butanone (MEK)	**20.7**		µg/l		20.0		104	70-130		
n-Butylbenzene	**24.7**		µg/l		20.0		124	70-130		
sec-Butylbenzene	**25.2**		µg/l		20.0		126	70-130		
tert-Butylbenzene	**25.0**		µg/l		20.0		125	70-130		
Carbon disulfide	**22.1**		µg/l		20.0		110	70-130		
Carbon tetrachloride	**23.3**		µg/l		20.0		116	70-130		
Chlorobenzene	**23.6**		µg/l		20.0		118	70-130		
Chloroethane	**22.2**		µg/l		20.0		111	70-130		
Chloroform	**23.8**		µg/l		20.0		119	70-130		
Chloromethane	**18.3**		µg/l		20.0		92	70-130		
2-Chlorotoluene	**24.7**		µg/l		20.0		124	70-130		
4-Chlorotoluene	**24.9**		µg/l		20.0		125	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800589 - SW846 5030 Water MS										
LCS (1800589-BS1)					Prepared & Analyzed: 16-Jan-18					
1,2-Dibromo-3-chloropropane	**19.8**		µg/l		20.0		99	70-130		
Dibromochloromethane	**22.3**		µg/l		20.0		112	70-130		
1,2-Dibromoethane (EDB)	**22.3**		µg/l		20.0		112	70-130		
Dibromomethane	**24.4**		µg/l		20.0		122	70-130		
1,2-Dichlorobenzene	**23.3**		µg/l		20.0		117	70-130		
1,3-Dichlorobenzene	**24.6**		µg/l		20.0		123	70-130		
1,4-Dichlorobenzene	**22.7**		µg/l		20.0		114	70-130		
Dichlorodifluoromethane (Freon12)	**18.6**		µg/l		20.0		93	70-130		
1,1-Dichloroethane	**23.6**		µg/l		20.0		118	70-130		
1,2-Dichloroethane	**23.1**		µg/l		20.0		116	70-130		
1,1-Dichloroethene	**23.9**		µg/l		20.0		119	70-130		
cis-1,2-Dichloroethene	**23.6**		µg/l		20.0		118	70-130		
trans-1,2-Dichloroethene	**23.3**		µg/l		20.0		117	70-130		
1,2-Dichloropropane	**23.7**		µg/l		20.0		119	70-130		
1,3-Dichloropropane	**23.8**		µg/l		20.0		119	70-130		
2,2-Dichloropropane	**26.6**	QM9	µg/l		20.0		133	70-130		
1,1-Dichloropropene	**23.9**		µg/l		20.0		120	70-130		
cis-1,3-Dichloropropene	**22.0**		µg/l		20.0		110	70-130		
trans-1,3-Dichloropropene	**21.8**		µg/l		20.0		109	70-130		
Ethylbenzene	**24.5**		µg/l		20.0		122	70-130		
Hexachlorobutadiene	**25.4**		µg/l		20.0		127	70-130		
2-Hexanone (MBK)	**21.2**		µg/l		20.0		106	70-130		
Isopropylbenzene	**24.6**		µg/l		20.0		123	70-130		
4-Isopropyltoluene	**23.7**		µg/l		20.0		118	70-130		
Methyl tert-butyl ether	**22.2**		µg/l		20.0		111	70-130		
4-Methyl-2-pentanone (MIBK)	**21.4**		µg/l		20.0		107	70-130		
Methylene chloride	**22.9**		µg/l		20.0		115	70-130		
Naphthalene	**19.9**		µg/l		20.0		100	70-130		
n-Propylbenzene	**24.6**		µg/l		20.0		123	70-130		
Styrene	**24.8**		µg/l		20.0		124	70-130		
1,1,1,2-Tetrachloroethane	**22.3**		µg/l		20.0		111	70-130		
1,1,2,2-Tetrachloroethane	**23.7**		µg/l		20.0		118	70-130		
Tetrachloroethene	**24.3**		µg/l		20.0		121	70-130		
Toluene	**24.2**		µg/l		20.0		121	70-130		
1,2,3-Trichlorobenzene	**22.7**		µg/l		20.0		114	70-130		
1,2,4-Trichlorobenzene	**22.8**		µg/l		20.0		114	70-130		
1,3,5-Trichlorobenzene	**23.8**		µg/l		20.0		119	70-130		
1,1,1-Trichloroethane	**24.5**		µg/l		20.0		122	70-130		
1,1,2-Trichloroethane	**24.5**		µg/l		20.0		123	70-130		
Trichloroethene	**22.2**		µg/l		20.0		111	70-130		
Trichlorofluoromethane (Freon 11)	**23.6**		µg/l		20.0		118	70-130		
1,2,3-Trichloropropane	**23.2**		µg/l		20.0		116	70-130		
1,2,4-Trimethylbenzene	**24.6**		µg/l		20.0		123	70-130		
1,3,5-Trimethylbenzene	**24.6**		µg/l		20.0		123	70-130		
Vinyl chloride	**23.4**		µg/l		20.0		117	70-130		
m,p-Xylene	**23.9**		µg/l		20.0		119	70-130		
o-Xylene	**24.5**		µg/l		20.0		123	70-130		
Tetrahydrofuran	**19.5**		µg/l		20.0		98	70-130		
Ethyl ether	**23.1**		µg/l		20.0		116	70-130		
Tert-amyl methyl ether	**23.9**		µg/l		20.0		120	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800589 - SW846 5030 Water MS										
LCS (1800589-BS1)					Prepared & Analyzed: 16-Jan-18					
Ethyl tert-butyl ether	**23.0**		µg/l		20.0		115	70-130		
Di-isopropyl ether	**22.8**		µg/l		20.0		114	70-130		
Tert-Butanol / butyl alcohol	**194**		µg/l		200		97	70-130		
1,4-Dioxane	**193**		µg/l		200		97	70-130		
trans-1,4-Dichloro-2-butene	**19.0**		µg/l		20.0		95	70-130		
Ethanol	**405**		µg/l		400		101	70-130		
Surrogate: 4-Bromofluorobenzene	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/l		*50.0*		*105*	*70-130*		
LCS Dup (1800589-BSD1)					Prepared & Analyzed: 16-Jan-18					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.9**		µg/l		20.0		119	70-130	5	20
Acetone	**18.7**		µg/l		20.0		94	70-130	3	20
Acrylonitrile	**22.0**		µg/l		20.0		110	70-130	2	20
Benzene	**23.3**		µg/l		20.0		116	70-130	3	20
Bromobenzene	**23.8**		µg/l		20.0		119	70-130	0.3	20
Bromochloromethane	**23.5**		µg/l		20.0		117	70-130	3	20
Bromodichloromethane	**21.9**		µg/l		20.0		110	70-130	3	20
Bromoform	**21.7**		µg/l		20.0		109	70-130	0.6	20
Bromomethane	**22.8**		µg/l		20.0		114	70-130	7	20
2-Butanone (MEK)	**21.2**		µg/l		20.0		106	70-130	2	20
n-Butylbenzene	**25.2**		µg/l		20.0		126	70-130	2	20
sec-Butylbenzene	**24.8**		µg/l		20.0		124	70-130	2	20
tert-Butylbenzene	**24.8**		µg/l		20.0		124	70-130	0.8	20
Carbon disulfide	**21.4**		µg/l		20.0		107	70-130	3	20
Carbon tetrachloride	**23.0**		µg/l		20.0		115	70-130	1	20
Chlorobenzene	**23.4**		µg/l		20.0		117	70-130	0.7	20
Chloroethane	**21.3**		µg/l		20.0		107	70-130	4	20
Chloroform	**22.9**		µg/l		20.0		114	70-130	4	20
Chloromethane	**17.4**		µg/l		20.0		87	70-130	5	20
2-Chlorotoluene	**24.2**		µg/l		20.0		121	70-130	2	20
4-Chlorotoluene	**23.4**		µg/l		20.0		117	70-130	6	20
1,2-Dibromo-3-chloropropane	**20.6**		µg/l		20.0		103	70-130	4	20
Dibromochloromethane	**22.0**		µg/l		20.0		110	70-130	1	20
1,2-Dibromoethane (EDB)	**21.8**		µg/l		20.0		109	70-130	2	20
Dibromomethane	**23.4**		µg/l		20.0		117	70-130	4	20
1,2-Dichlorobenzene	**23.3**		µg/l		20.0		116	70-130	0.3	20
1,3-Dichlorobenzene	**23.4**		µg/l		20.0		117	70-130	5	20
1,4-Dichlorobenzene	**22.5**		µg/l		20.0		112	70-130	1	20
Dichlorodifluoromethane (Freon12)	**17.7**		µg/l		20.0		89	70-130	5	20
1,1-Dichloroethane	**22.8**		µg/l		20.0		114	70-130	3	20
1,2-Dichloroethane	**22.3**		µg/l		20.0		111	70-130	4	20
1,1-Dichloroethene	**23.1**		µg/l		20.0		115	70-130	3	20
cis-1,2-Dichloroethene	**22.8**		µg/l		20.0		114	70-130	3	20
trans-1,2-Dichloroethene	**22.3**		µg/l		20.0		112	70-130	4	20
1,2-Dichloropropane	**23.4**		µg/l		20.0		117	70-130	1	20
1,3-Dichloropropane	**23.0**		µg/l		20.0		115	70-130	3	20
2,2-Dichloropropane	**25.5**		µg/l		20.0		127	70-130	4	20
1,1-Dichloropropene	**23.3**		µg/l		20.0		117	70-130	2	20
cis-1,3-Dichloropropene	**21.9**		µg/l		20.0		109	70-130	0.4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1800589 - SW846 5030 Water MS										
LCS Dup (1800589-BSD1)					Prepared & Analyzed: 16-Jan-18					
trans-1,3-Dichloropropene	**21.8**		µg/l		20.0		109	70-130	0.1	20
Ethylbenzene	**24.2**		µg/l		20.0		121	70-130	1	20
Hexachlorobutadiene	**26.4**	QM9	µg/l		20.0		132	70-130	4	20
2-Hexanone (MBK)	**21.4**		µg/l		20.0		107	70-130	0.9	20
Isopropylbenzene	**24.2**		µg/l		20.0		121	70-130	2	20
4-Isopropyltoluene	**23.7**		µg/l		20.0		119	70-130	0.3	20
Methyl tert-butyl ether	**21.6**		µg/l		20.0		108	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**21.4**		µg/l		20.0		107	70-130	0.05	20
Methylene chloride	**22.1**		µg/l		20.0		111	70-130	4	20
Naphthalene	**22.2**		µg/l		20.0		111	70-130	11	20
n-Propylbenzene	**24.3**		µg/l		20.0		122	70-130	1	20
Styrene	**24.4**		µg/l		20.0		122	70-130	1	20
1,1,1,2-Tetrachloroethane	**22.3**		µg/l		20.0		111	70-130	0.09	20
1,1,2,2-Tetrachloroethane	**23.4**		µg/l		20.0		117	70-130	1	20
Tetrachloroethene	**23.8**		µg/l		20.0		119	70-130	2	20
Toluene	**23.5**		µg/l		20.0		117	70-130	3	20
1,2,3-Trichlorobenzene	**23.8**		µg/l		20.0		119	70-130	5	20
1,2,4-Trichlorobenzene	**23.6**		µg/l		20.0		118	70-130	3	20
1,3,5-Trichlorobenzene	**24.0**		µg/l		20.0		120	70-130	0.5	20
1,1,1-Trichloroethane	**23.8**		µg/l		20.0		119	70-130	3	20
1,1,2-Trichloroethane	**23.8**		µg/l		20.0		119	70-130	3	20
Trichloroethene	**21.4**		µg/l		20.0		107	70-130	3	20
Trichlorofluoromethane (Freon 11)	**22.5**		µg/l		20.0		113	70-130	5	20
1,2,3-Trichloropropane	**23.2**		µg/l		20.0		116	70-130	0.2	20
1,2,4-Trimethylbenzene	**23.8**		µg/l		20.0		119	70-130	3	20
1,3,5-Trimethylbenzene	**24.3**		µg/l		20.0		122	70-130	1	20
Vinyl chloride	**21.4**		µg/l		20.0		107	70-130	9	20
m,p-Xylene	**23.7**		µg/l		20.0		119	70-130	0.6	20
o-Xylene	**24.0**		µg/l		20.0		120	70-130	2	20
Tetrahydrofuran	**19.8**		µg/l		20.0		99	70-130	1	20
Ethyl ether	**23.0**		µg/l		20.0		115	70-130	0.3	20
Tert-amyl methyl ether	**22.9**		µg/l		20.0		114	70-130	5	20
Ethyl tert-butyl ether	**22.6**		µg/l		20.0		113	70-130	2	20
Di-isopropyl ether	**22.6**		µg/l		20.0		113	70-130	1	20
Tert-Butanol / butyl alcohol	**193**		µg/l		200		96	70-130	0.6	20
1,4-Dioxane	**195**		µg/l		200		98	70-130	1	20
trans-1,4-Dichloro-2-butene	**19.8**		µg/l		20.0		99	70-130	4	20
Ethanol	**395**		µg/l		400		99	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.0*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*52.1*		µg/l		*50.0*		*104*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1800431 - SW846 3510C										
Blank (1800431-BLK1)					Prepared: 12-Jan-18 Analyzed: 17-Jan-18					
Acenaphthene	< 5.10		µg/l	5.10						
Acenaphthylene	< 5.10		µg/l	5.10						
Anthracene	< 5.10		µg/l	5.10						
Benzo (a) anthracene	< 5.10		µg/l	5.10						
Benzo (a) pyrene	< 5.10		µg/l	5.10						
Benzo (b) fluoranthene	< 5.10		µg/l	5.10						
Benzo (g,h,i) perylene	< 5.10		µg/l	5.10						
Benzo (k) fluoranthene	< 5.10		µg/l	5.10						
Chrysene	< 5.10		µg/l	5.10						
Dibenzo (a,h) anthracene	< 5.10		µg/l	5.10						
Fluoranthene	< 5.10		µg/l	5.10						
Fluorene	< 5.10		µg/l	5.10						
Indeno (1,2,3-cd) pyrene	< 5.10		µg/l	5.10						
1-Methylnaphthalene	< 5.10		µg/l	5.10						
2-Methylnaphthalene	< 5.10		µg/l	5.10						
Naphthalene	< 5.10		µg/l	5.10						
Phenanthrene	< 5.10		µg/l	5.10						
Pyrene	< 5.10		µg/l	5.10						
Surrogate: 2-Fluorobiphenyl	*25.1*		µg/l		*51.0*		*49*	*30-130*		
Surrogate: Terphenyl-dl4	*39.1*		µg/l		*51.0*		*77*	*30-130*		
Surrogate: Nitrobenzene-d5	*27.0*		µg/l		*51.0*		*53*	*30-130*		
LCS (1800431-BS1)					Prepared: 12-Jan-18 Analyzed: 17-Jan-18					
Acenaphthene	**30.3**		µg/l	5.05	50.5		60	40-140		
Acenaphthylene	**30.9**		µg/l	5.05	50.5		61	40-140		
Anthracene	**31.1**		µg/l	5.05	50.5		62	40-140		
Benzo (a) anthracene	**32.1**		µg/l	5.05	50.5		64	40-140		
Benzo (a) pyrene	**33.2**		µg/l	5.05	50.5		66	40-140		
Benzo (b) fluoranthene	**32.5**		µg/l	5.05	50.5		64	40-140		
Benzo (g,h,i) perylene	**30.7**		µg/l	5.05	50.5		61	40-140		
Benzo (k) fluoranthene	**35.3**		µg/l	5.05	50.5		70	40-140		
Chrysene	**30.4**		µg/l	5.05	50.5		60	40-140		
Dibenzo (a,h) anthracene	**33.1**		µg/l	5.05	50.5		66	40-140		
Fluoranthene	**30.8**		µg/l	5.05	50.5		61	40-140		
Fluorene	**29.7**		µg/l	5.05	50.5		59	40-140		
Indeno (1,2,3-cd) pyrene	**32.5**		µg/l	5.05	50.5		64	40-140		
1-Methylnaphthalene	**28.6**		µg/l	5.05	50.5		57	40-140		
2-Methylnaphthalene	**33.6**		µg/l	5.05	50.5		66	40-140		
Naphthalene	**27.6**		µg/l	5.05	50.5		55	40-140		
Phenanthrene	**29.5**		µg/l	5.05	50.5		58	40-140		
Pyrene	**31.1**		µg/l	5.05	50.5		62	40-140		
Surrogate: 2-Fluorobiphenyl	*37.3*		µg/l		*50.5*		*74*	*30-130*		
Surrogate: Terphenyl-dl4	*43.5*		µg/l		*50.5*		*86*	*30-130*		
Surrogate: Nitrobenzene-d5	*41.4*		µg/l		*50.5*		*82*	*30-130*		
LCS Dup (1800431-BSD1)					Prepared: 12-Jan-18 Analyzed: 17-Jan-18					
Acenaphthene	**31.7**		µg/l	5.10	51.0		62	40-140	4	20
Acenaphthylene	**32.2**		µg/l	5.10	51.0		63	40-140	4	20
Anthracene	**33.2**		µg/l	5.10	51.0		65	40-140	6	20
Benzo (a) anthracene	**34.9**		µg/l	5.10	51.0		68	40-140	8	20
Benzo (a) pyrene	**35.7**		µg/l	5.10	51.0		70	40-140	7	20
Benzo (b) fluoranthene	**37.1**		µg/l	5.10	51.0		73	40-140	13	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1800431 - SW846 3510C										
LCS Dup (1800431-BSD1)					Prepared: 12-Jan-18 Analyzed: 17-Jan-18					
Benzo (g,h,i) perylene	**33.5**		µg/l	5.10	51.0		66	40-140	9	20
Benzo (k) fluoranthene	**36.4**		µg/l	5.10	51.0		71	40-140	3	20
Chrysene	**32.5**		µg/l	5.10	51.0		64	40-140	7	20
Dibenzo (a,h) anthracene	**35.8**		µg/l	5.10	51.0		70	40-140	8	20
Fluoranthene	**33.5**		µg/l	5.10	51.0		66	40-140	8	20
Fluorene	**31.7**		µg/l	5.10	51.0		62	40-140	6	20
Indeno (1,2,3-cd) pyrene	**35.2**		µg/l	5.10	51.0		69	40-140	8	20
1-Methylnaphthalene	**30.2**		µg/l	5.10	51.0		59	40-140	5	20
2-Methylnaphthalene	**36.2**		µg/l	5.10	51.0		71	40-140	7	20
Naphthalene	**28.9**		µg/l	5.10	51.0		57	40-140	5	20
Phenanthrene	**31.8**		µg/l	5.10	51.0		62	40-140	8	20
Pyrene	**35.0**		µg/l	5.10	51.0		69	40-140	12	20
Surrogate: 2-Fluorobiphenyl	*39.0*		µg/l		*51.0*		*76*	*30-130*		
Surrogate: Terphenyl-dl4	*48.0*		µg/l		*51.0*		*94*	*30-130*		
Surrogate: Nitrobenzene-d5	*44.2*		µg/l		*51.0*		*87*	*30-130*		

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.
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.
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.

SC 42975

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

X 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 30 days unless otherwise instructed.

Report To: AECOM
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECOM (proj # 17-258)
cbeck@aecomgroup.com

P.O No.: _____ Quote #: _____

Project No: 17-258
Site Name: Syracuse Scale
Location: Solar St State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List Preservative Code below: 2 --

QA/QC Reporting Notes:
* additional charges may appply

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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: 8260 STARS VOCs	8270 STARS SVOCs	Check if chlorinated
42975-01	TW-01	1/8/18	1014	G	GW	3	1			X	X	☐
-02	TW-02	1/8/18	1114	G	GW	3	1			X	X	☐
-03	TW-03	1/8/18	1152	G	GW	3	1			X	X	☐
-04	TW-04	1/8/18	1335	G	GW	3	1			X	X	☐
-05	TW-05	1/8/18	1439	G	GW	3	1			X	X	☐
-06	Trip Blank	-	-	-	-	2				X		☐
												☐
												☐
												☐
												☐

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
X Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
Drew Brantner	FedEx	1/8/18	1615	Observed 5.9
FedEx	Keller	1/9/18	1630	Correction Factor 0
		1B 1/10/18		Corrected 5.9
				IR ID # 2

X EDD format: PDF and Excel
X E-mail to: cmckenna@aecomgroup.com
dbrantner@aecomgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

FedEx Express **Package US Airbill**

FedEx Tracking Number **8116 7330 4759**

Form ID No. 0200

1 From

Date 1/8/18

Sender's Name Drew Brattner Phone 315 432-9400

Company AECOM

Address 6308 Fly Rd

Dept./Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference 17-258

3 To

Recipient's Name Sample Receiving Phone 413 789-9018

Company Eurofins / Spectrum Analytical

Address 11 Almgren Drive

We can't not deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

☐ Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8116 7330 4759

4 Express Package Service * To most locations.

Packages up to 150 lbs. *For packages over 150 lbs., use the FedEx Express Freight US Airbill.*

Next Business Day

☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery.

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☒ Sender — Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight 36 lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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fedex.com 1.800.GoFedEx 1.800.463.3339

fedex.com 1.800.GoFedEx 1.800.463.3339

SC 42975

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

X 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 30 days unless otherwise instructed.

Report To: AECC
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECC (proj # 17-258)
cbeck@aeccgroup.com

P.O No.: ____ Quote #: ____

Project No: 17-258
Site Name: Syracuse Scale
Location: Solar St State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_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=Compsite

List Preservative Code below: 2 | –

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Full 8260 STARS VOCs	8270 STARS SVOCs	Check if chlorinated
42975-01	TW-01	1/8/18	1014	G	GW	3	1			X	X	☐
-02	TW-02	1/8/18	1114	G	GW	3	1			X	X	☐
-03	TW-03	1/8/18	1152	G	GW	3	1			X	X	☐
-04	TW-04	1/8/18	1335	G	GW	3	1			X	X	☐
-05	TW-05	1/8/18	1439	G	GW	3	1			X	X	☐
-06	Trip Blank	-	-	-	-	2				X		☐

(2/11/18 initialled next to "Full 8260")

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
X Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: ____
State-specific reporting standards:

perchlorate req
1/11/18 e

Relinquished by:	Received by:	Date:	Time:	Temp °C
Drew Brantner	FedEx	1/8/18	1615	Observed 5.9
Fedex	[signature]	1/9/18 (14 corrected to 18, 1/16/18)	1630	Correction Factor 0
				Corrected 5.9
				IR ID # 2

X EDD format: PDF and Excel
X E-mail to: rmckenna@aeccgroup.com
dbrantner@aeccgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Batch Summary

1800431

Semivolatile Organic Compounds by GCMS

1800431-BLK1
1800431-BS1
1800431-BSD1
SC42975-01 (TW-01)
SC42975-02 (TW-02)
SC42975-03 (TW-03)
SC42975-04 (TW-04)
SC42975-05 (TW-05)

1800522

Volatile Organic Compounds

1800522-BLK1
1800522-BS1
1800522-BSD1
SC42975-01 (TW-01)
SC42975-02 (TW-02)
SC42975-04 (TW-04)
SC42975-05 (TW-05)
SC42975-06 (Trip Blank)

1800589

Volatile Organic Compounds

1800589-BLK1
1800589-BS1
1800589-BSD1
SC42975-03 (TW-03)

S711008

Semivolatile Organic Compounds by GCMS

S711008-CAL1
S711008-CAL2
S711008-CAL3
S711008-CAL4
S711008-CAL5
S711008-CAL6
S711008-CAL7
S711008-CAL8
S711008-CAL9
S711008-CALA
S711008-ICV1
S711008-LCV1
S711008-LCV2
S711008-TUN1

S815859

Semivolatile Organic Compounds by GCMS

S815859-CAL1
S815859-CAL2
S815859-CAL3
S815859-CAL4
S815859-CAL5
S815859-CAL6
S815859-CAL7
S815859-CAL8
S815859-CAL9
S815859-CALA
S815859-ICV1
S815859-LCV1
S815859-LCV2
S815859-TUN1

S815896

Volatile Organic Compounds

S815896-CAL1
S815896-CAL2
S815896-CAL3
S815896-CAL4
S815896-CAL5
S815896-CAL6
S815896-CAL7
S815896-CAL8
S815896-CAL9
S815896-ICV1
S815896-LCV1
S815896-LCV2
S815896-LCV3
S815896-TUN1

S815952

Volatile Organic Compounds

S815952-CCV1
S815952-TUN1

S815976

Volatile Organic Compounds

S815976-CCV1
S815976-TUN1

S816008

Semivolatile Organic Compounds by GCMS

S816008-CCV1
S816008-TUN1

S816057

Semivolatile Organic Compounds by GCMS

S816057-CCV1
S816057-TUN1

S816058

Semivolatile Organic Compounds by GCMS

S816058-CCV1
S816058-TUN1

☑ Final Report
☐ Revised Report

Report Date:
13-Feb-18 15:46

Laboratory Report
SC43828

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

Project: Syracuse Scale - Solar St - NY
Project #: 17-258-001

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:

Dawn Wojcik
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 14 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.

Sample Summary

Work Order: SC43828

Project: Syracuse Scale - Solar St - NY

Project Number: 17-258-001

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC43828-01	TW-06	Ground Water	08-Feb-18 09:24	09-Feb-18 10:45
SC43828-02	TW-07	Ground Water	08-Feb-18 10:14	09-Feb-18 10:45
SC43828-03	TW-08	Ground Water	08-Feb-18 10:50	09-Feb-18 10:45
SC43828-04	Trip Blank	Aqueous	08-Feb-18 00:00	09-Feb-18 10:45

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 1.0 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. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

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

SW846 8260C

Calibration:

1801070

Analyte quantified by quadratic equation type calibration.

Naphthalene

This affected the following samples:

1802047-BLK1
1802047-BS1
1802047-BSD1
S816062-ICV1
S816757-CCV1
TW-06

Samples:

SC43828-02 *TW-07*

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

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC43828-03 *TW-08*

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

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC43828-04 *Trip Blank*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

Sample Acceptance Check Form

Client:	AECC Environmental Consulting
Project:	Syracuse Scale - Solar St - NY / 17-258-001
Work Order:	SC43828
Sample(s) received on:	2/9/2018

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

	Yes	No	N/A
Were custody seals present?	☑	☐	☐
Were custody seals intact?	☑	☐	☐
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
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?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC43828-01 **Client ID:** TW-06

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	37.8		1.0	µg/l	SW846 8260C
1,3,5-Trimethylbenzene	1.2		1.0	µg/l	SW846 8260C
4-Isopropyltoluene	3.3		1.0	µg/l	SW846 8260C
Benzene	2.1		1.0	µg/l	SW846 8260C
Ethylbenzene	3.4		1.0	µg/l	SW846 8260C
Isopropylbenzene	5.5		1.0	µg/l	SW846 8260C
m,p-Xylene	16.4		2.0	µg/l	SW846 8260C
Naphthalene	5.6		1.0	µg/l	SW846 8260C
n-Butylbenzene	2.2		1.0	µg/l	SW846 8260C
n-Propylbenzene	6.9		1.0	µg/l	SW846 8260C
o-Xylene	0.6	J	1.0	µg/l	SW846 8260C
sec-Butylbenzene	2.1		1.0	µg/l	SW846 8260C
tert-Butylbenzene	0.9	J	1.0	µg/l	SW846 8260C
Toluene	0.7	J	1.0	µg/l	SW846 8260C

Lab ID: SC43828-02 **Client ID:** TW-07

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	352	D	10.0	µg/l	SW846 8260C
4-Isopropyltoluene	15.4	D	10.0	µg/l	SW846 8260C
Benzene	42.6	D	10.0	µg/l	SW846 8260C
Ethylbenzene	36.0	D	10.0	µg/l	SW846 8260C
Isopropylbenzene	48.1	D	10.0	µg/l	SW846 8260C
m,p-Xylene	14.3	J, D	20.0	µg/l	SW846 8260C
Naphthalene	96.1	D	10.0	µg/l	SW846 8260C
n-Butylbenzene	12.5	D	10.0	µg/l	SW846 8260C
n-Propylbenzene	56.2	D	10.0	µg/l	SW846 8260C
sec-Butylbenzene	11.9	D	10.0	µg/l	SW846 8260C
Toluene	8.0	J, D	10.0	µg/l	SW846 8260C

Lab ID: SC43828-03 **Client ID:** TW-08

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	151	D	5.0	µg/l	SW846 8260C
4-Isopropyltoluene	10.8	D	5.0	µg/l	SW846 8260C
Ethylbenzene	17.0	D	5.0	µg/l	SW846 8260C
Isopropylbenzene	19.5	D	5.0	µg/l	SW846 8260C
m,p-Xylene	4.8	J, D	10.0	µg/l	SW846 8260C
Naphthalene	30.6	D	5.0	µg/l	SW846 8260C
n-Butylbenzene	8.4	D	5.0	µg/l	SW846 8260C
n-Propylbenzene	26.2	D	5.0	µg/l	SW846 8260C
sec-Butylbenzene	7.0	D	5.0	µg/l	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	Client Project #	Matrix	Collection Date/Time	Received
TW-06 SC43828-01	17-258-001	Ground Water	08-Feb-18 09:24	09-Feb-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Full Aromatics by SW846 8260 Prepared by method SW846 5030 Water MS													
71-43-2	Benzene	**2.1**		µg/l	1.0	0.3	1	SW846 8260C	13-Feb-18	13-Feb-18	GMA	1802047	X
104-51-8	n-Butylbenzene	**2.2**		µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**2.1**		µg/l	1.0	0.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.9**	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	**3.4**		µg/l	1.0	0.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**5.5**		µg/l	1.0	0.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**3.3**		µg/l	1.0	0.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	**5.6**		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**6.9**		µg/l	1.0	0.3	1	"	"	"	"	"	X
108-88-3	Toluene	**0.7**	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**37.8**		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**1.2**		µg/l	1.0	0.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**16.4**		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	**0.6**	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*113*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*110*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-07 SC43828-02	17-258-001	Ground Water	08-Feb-18 10:14	09-Feb-18

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Full Aromatics by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
71-43-2	Benzene	**42.6**	D	µg/l	10.0	2.8	10	SW846 8260C	12-Feb-18	13-Feb-18	GMA	1801980	X
104-51-8	n-Butylbenzene	**12.5**	D	µg/l	10.0	4.1	10	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**11.9**	D	µg/l	10.0	3.3	10	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 10.0	U, D	µg/l	10.0	3.2	10	"	"	"	"	"	X
100-41-4	Ethylbenzene	**36.0**	D	µg/l	10.0	3.3	10	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**48.1**	D	µg/l	10.0	3.6	10	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**15.4**	D	µg/l	10.0	2.8	10	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 10.0	U, D	µg/l	10.0	2.4	10	"	"	"	"	"	X
91-20-3	Naphthalene	**96.1**	D	µg/l	10.0	3.5	10	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**56.2**	D	µg/l	10.0	3.4	10	"	"	"	"	"	X
108-88-3	Toluene	**8.0**	J, D	µg/l	10.0	3.0	10	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**352**	D	µg/l	10.0	3.6	10	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 10.0	U, D	µg/l	10.0	4.3	10	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**14.3**	J, D	µg/l	20.0	3.8	10	"	"	"	"	"	X
95-47-6	o-Xylene	< 10.0	U, D	µg/l	10.0	2.8	10	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*139*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-08	17-258-001	Ground Water	08-Feb-18 10:50	09-Feb-18
SC43828-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Full Aromatics by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
71-43-2	Benzene	< 5.0	U, D	µg/l	5.0	1.4	5	SW846 8260C	12-Feb-18	13-Feb-18	GMA	1801980	X
104-51-8	n-Butylbenzene	**8.4**	D	µg/l	5.0	2.1	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**7.0**	D	µg/l	5.0	1.6	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.0	U, D	µg/l	5.0	1.6	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	**17.0**	D	µg/l	5.0	1.6	5	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**19.5**	D	µg/l	5.0	1.8	5	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**10.8**	D	µg/l	5.0	1.4	5	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.0	U, D	µg/l	5.0	1.2	5	"	"	"	"	"	X
91-20-3	Naphthalene	**30.6**	D	µg/l	5.0	1.8	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**26.2**	D	µg/l	5.0	1.7	5	"	"	"	"	"	X
108-88-3	Toluene	< 5.0	U, D	µg/l	5.0	1.5	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**151**	D	µg/l	5.0	1.8	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.0	U, D	µg/l	5.0	2.2	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**4.8**	J, D	µg/l	10.0	1.9	5	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.0	U, D	µg/l	5.0	1.4	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*140*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
Prepared by method General Prep-Metal													
	Preservation	**Field Preserved; pH<2 confirmed**		N/A			1	EPA 200/6000 methods	12-Feb-18		KT	1802010	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3005A													
7439-92-1	Lead	< 0.0150	U	mg/l	0.0150	0.0124	1	SW846 6010C	13-Feb-18	13-Feb-18	TBC	1802046	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC43828-04	17-258-001	Aqueous	08-Feb-18 00:00	09-Feb-18

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Full Aromatics by SW846 8260 Prepared by method SW846 5030 Water MS													
71-43-2	Benzene	< 1.0	U	µg/l	1.0	0.3	1	SW846 8260C	12-Feb-18	13-Feb-18	GMA	1801980	X
104-51-8	n-Butylbenzene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0	U	µg/l	1.0	0.3	1	"	"	"	"	"	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*	*141*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1801980 - SW846 5030 Water MS										
Blank (1801980-BLK1)					Prepared & Analyzed: 12-Feb-18					
Benzene	< 1.0	U	µg/l	1.0						
n-Butylbenzene	< 1.0	U	µg/l	1.0						
sec-Butylbenzene	< 1.0	U	µg/l	1.0						
tert-Butylbenzene	< 1.0	U	µg/l	1.0						
Ethylbenzene	< 1.0	U	µg/l	1.0						
Isopropylbenzene	< 1.0	U	µg/l	1.0						
4-Isopropyltoluene	< 1.0	U	µg/l	1.0						
Methyl tert-butyl ether	< 1.0	U	µg/l	1.0						
Naphthalene	< 1.0	U	µg/l	1.0						
n-Propylbenzene	< 1.0	U	µg/l	1.0						
Toluene	< 1.0	U	µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0	U	µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0	U	µg/l	1.0						
m,p-Xylene	< 2.0	U	µg/l	2.0						
o-Xylene	< 1.0	U	µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	*47.0*		µg/l		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*63.8*		µg/l		*50.0*		*128*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/l		*50.0*		*102*	*70-130*		
LCS (1801980-BS1)					Prepared & Analyzed: 12-Feb-18					
Benzene	**21.4**		µg/l		20.0		107	70-130		
n-Butylbenzene	**21.2**		µg/l		20.0		106	70-130		
sec-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
tert-Butylbenzene	**20.7**		µg/l		20.0		103	70-130		
Ethylbenzene	**20.1**		µg/l		20.0		101	70-130		
Isopropylbenzene	**21.1**		µg/l		20.0		105	70-130		
4-Isopropyltoluene	**22.9**		µg/l		20.0		115	70-130		
Methyl tert-butyl ether	**21.1**		µg/l		20.0		106	70-130		
Naphthalene	**21.3**		µg/l		20.0		106	70-130		
n-Propylbenzene	**21.4**		µg/l		20.0		107	70-130		
Toluene	**22.6**		µg/l		20.0		113	70-130		
1,2,4-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	**20.8**		µg/l		20.0		104	70-130		
m,p-Xylene	**19.3**		µg/l		20.0		96	70-130		
o-Xylene	**19.8**		µg/l		20.0		99	70-130		
Surrogate: 4-Bromofluorobenzene	*49.2*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*64.7*		µg/l		*50.0*		*129*	*70-130*		
Surrogate: Dibromofluoromethane	*53.7*		µg/l		*50.0*		*107*	*70-130*		
LCS Dup (1801980-BSD1)					Prepared & Analyzed: 12-Feb-18					
Benzene	**20.3**		µg/l		20.0		102	70-130	5	20
n-Butylbenzene	**20.4**		µg/l		20.0		102	70-130	4	20
sec-Butylbenzene	**20.0**		µg/l		20.0		100	70-130	10	20
tert-Butylbenzene	**19.0**		µg/l		20.0		95	70-130	8	20
Ethylbenzene	**18.9**		µg/l		20.0		94	70-130	6	20
Isopropylbenzene	**19.5**		µg/l		20.0		97	70-130	8	20
4-Isopropyltoluene	**21.2**		µg/l		20.0		106	70-130	8	20
Methyl tert-butyl ether	**21.2**		µg/l		20.0		106	70-130	0.4	20
Naphthalene	**20.4**		µg/l		20.0		102	70-130	4	20
n-Propylbenzene	**19.3**		µg/l		20.0		97	70-130	10	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1801980 - SW846 5030 Water MS										
LCS Dup (1801980-BSD1)					Prepared & Analyzed: 12-Feb-18					
Toluene	**21.4**		µg/l		20.0		107	70-130	6	20
1,2,4-Trimethylbenzene	**19.5**		µg/l		20.0		98	70-130	8	20
1,3,5-Trimethylbenzene	**19.4**		µg/l		20.0		97	70-130	7	20
m,p-Xylene	**17.9**		µg/l		20.0		89	70-130	8	20
o-Xylene	**18.3**		µg/l		20.0		92	70-130	8	20
Surrogate: 4-Bromofluorobenzene	*49.1*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*53.3*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*62.2*		µg/l		*50.0*		*124*	*70-130*		
Surrogate: Dibromofluoromethane	*54.7*		µg/l		*50.0*		*109*	*70-130*		
Batch 1802047 - SW846 5030 Water MS										
Blank (1802047-BLK1)					Prepared & Analyzed: 13-Feb-18					
Benzene	< 1.0	U	µg/l	1.0						
n-Butylbenzene	< 1.0	U	µg/l	1.0						
sec-Butylbenzene	< 1.0	U	µg/l	1.0						
tert-Butylbenzene	< 1.0	U	µg/l	1.0						
Ethylbenzene	**0.4**	J	µg/l	1.0						
Isopropylbenzene	< 1.0	U	µg/l	1.0						
4-Isopropyltoluene	< 1.0	U	µg/l	1.0						
Methyl tert-butyl ether	< 1.0	U	µg/l	1.0						
Naphthalene	< 1.0	U	µg/l	1.0						
n-Propylbenzene	< 1.0	U	µg/l	1.0						
Toluene	< 1.0	U	µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0	U	µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0	U	µg/l	1.0						
m,p-Xylene	< 2.0	U	µg/l	2.0						
o-Xylene	< 1.0	U	µg/l	1.0						
Surrogate: 4-Bromofluorobenzene	*55.9*		µg/l		*50.0*		*112*	*70-130*		
Surrogate: Toluene-d8	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.6*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Dibromofluoromethane	*55.1*		µg/l		*50.0*		*110*	*70-130*		
LCS (1802047-BS1)					Prepared & Analyzed: 13-Feb-18					
Benzene	**20.2**		µg/l		20.0		101	70-130		
n-Butylbenzene	**20.0**		µg/l		20.0		100	70-130		
sec-Butylbenzene	**21.7**		µg/l		20.0		108	70-130		
tert-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
Ethylbenzene	**21.3**		µg/l		20.0		106	70-130		
Isopropylbenzene	**21.2**		µg/l		20.0		106	70-130		
4-Isopropyltoluene	**20.5**		µg/l		20.0		102	70-130		
Methyl tert-butyl ether	**21.3**		µg/l		20.0		106	70-130		
Naphthalene	**19.0**		µg/l		20.0		95	70-130		
n-Propylbenzene	**21.1**		µg/l		20.0		106	70-130		
Toluene	**21.8**		µg/l		20.0		109	70-130		
1,2,4-Trimethylbenzene	**22.4**		µg/l		20.0		112	70-130		
1,3,5-Trimethylbenzene	**21.9**		µg/l		20.0		110	70-130		
m,p-Xylene	**20.7**		µg/l		20.0		104	70-130		
o-Xylene	**21.5**		µg/l		20.0		108	70-130		
Surrogate: 4-Bromofluorobenzene	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.5*		µg/l		*50.0*		*109*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1802047 - SW846 5030 Water MS										
LCS (1802047-BS1)					Prepared & Analyzed: 13-Feb-18					
Surrogate: Dibromofluoromethane	*55.4*		µg/l		*50.0*		*111*	*70-130*		
LCS Dup (1802047-BSD1)					Prepared & Analyzed: 13-Feb-18					
Benzene	**19.1**		µg/l		20.0		96	70-130	5	20
n-Butylbenzene	**18.8**		µg/l		20.0		94	70-130	6	20
sec-Butylbenzene	**20.8**		µg/l		20.0		104	70-130	4	20
tert-Butylbenzene	**21.2**		µg/l		20.0		106	70-130	3	20
Ethylbenzene	**19.4**		µg/l		20.0		97	70-130	9	20
Isopropylbenzene	**19.9**		µg/l		20.0		99	70-130	6	20
4-Isopropyltoluene	**18.9**		µg/l		20.0		95	70-130	8	20
Methyl tert-butyl ether	**20.8**		µg/l		20.0		104	70-130	2	20
Naphthalene	**17.7**		µg/l		20.0		88	70-130	7	20
n-Propylbenzene	**20.0**		µg/l		20.0		100	70-130	5	20
Toluene	**19.5**		µg/l		20.0		98	70-130	11	20
1,2,4-Trimethylbenzene	**19.2**		µg/l		20.0		96	70-130	15	20
1,3,5-Trimethylbenzene	**19.0**		µg/l		20.0		95	70-130	14	20
m,p-Xylene	**19.2**		µg/l		20.0		96	70-130	7	20
o-Xylene	**19.1**		µg/l		20.0		96	70-130	12	20
Surrogate: 4-Bromofluorobenzene	*52.8*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.1*		µg/l		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*56.7*		µg/l		*50.0*		*113*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1802046 - SW846 3005A										
Blank (1802046-BLK1)						Prepared & Analyzed: 13-Feb-18				
Lead	< 0.0150	U	mg/l	0.0150						
LCS (1802046-BS1)						Prepared & Analyzed: 13-Feb-18				
Lead	**2.51**		mg/l	0.0150	2.50		100	85-115		
LCS Dup (1802046-BSD1)						Prepared & Analyzed: 13-Feb-18				
Lead	**2.54**		mg/l	0.0150	2.50		101	85-115	1	20
Duplicate (1802046-DUP1)			**Source: SC43828-03**			Prepared & Analyzed: 13-Feb-18				
Lead	< 0.0150	U	mg/l	0.0150		BRL				20
Matrix Spike (1802046-MS1)			**Source: SC43828-03**			Prepared & Analyzed: 13-Feb-18				
Lead	**2.40**		mg/l	0.0150	2.50	BRL	96	75-125		
Matrix Spike Dup (1802046-MSD1)			**Source: SC43828-03**			Prepared & Analyzed: 13-Feb-18				
Lead	**2.46**		mg/l	0.0150	2.50	BRL	99	75-125	3	20
Post Spike (1802046-PS1)			**Source: SC43828-03**			Prepared & Analyzed: 13-Feb-18				
Lead	**2.48**		mg/l	0.0150	2.50	BRL	99	80-120		

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).
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
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.

SC 43828

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 2/13/18
- All TATs subject to laboratory approval
- Min. 24-hr notification needed for rushes
- Samples disposed after 30 days unless otherwise instructed.

PR# 18127

Report To: AECOM
6308 Fly Rd
East Syracuse, NY 13057

Telephone #: (315) 432-9400
Project Mgr: Rich McKenna

Invoice To: AECOM (proj # 17-258-001)
cbeck@aecomgroup.com

P.O No.: Rush TAT * 18127 Quote #:

Project No: 17-258-001
Site Name: Syracuse Scale
Location: Solar St State: NY
Sampler(s): Drew Brantner

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 2 4	Analysis: * 8260 VOCs	* Methane Ethene only	Check if chlorinated
43828-01	TW-06	2/8/18	0924	G	GW	3					X		☐
-02	TW-07	2/8/18	1014	G	GW	3					X		☐
-03	TW-08	2/8/18	1050	G	GW	3			1		X	X	☐
-04	Trip Blank	-	-	-	-	2					X		☐
													☐
													☐
													☐
													☐
													☐
													☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

* 8260 VOCs only per client req 2/9/18 e

Relinquished by:	Received by:	Date:	Time:	Temp °C
Drew Brantner	FedEx	2/8/18	~1320	Observed 1.0
FedEx	Rec'd	2/9/18	1045	Correction Factor 0
				Corrected 1.0
				IR ID # 1

☒ EDD format: PDF and Excel
☒ E-mail to: rmckenna@aecomgroup.com
dbrantner@aecomgroup.com

Condition upon receipt: Custody Seals: ☑ Present ☑ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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FedEx Express Package US Airbill

FedEx Tracking Number 8116 7330 4689

Form ID No. 0200

1 From [redacted]

Date 2/8/18

Sender's Name Dan Bantner Phone 315 432-9400

Company AECC

Address 6308 Fly Rd Dept/Floor/Suite/Room

City East Syracuse State NY ZIP 13057

2 Your Internal Billing Reference 17-258-001

3 To

Recipient's Name Sample Receiving Phone 413 789-9018

Company Eurofins / Spectrum Analytical

Address 11 Almgren Drive Dept/Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

☐ Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

☐ Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City Agawam State MA ZIP 01001

8116 7330 4689

4 Express Package Service * To most locations.

Packages up to 150 lbs. *For packages over 150 lbs., use the FedEx Express Freight US Airbill.*

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☒ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Someone at recipient's address may sign for delivery.

☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 26 lbs. [redacted] Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Batch Summary

1801980

Volatile Organic Compounds

1801980-BLK1
1801980-BS1
1801980-BSD1
SC43828-02 (TW-07)
SC43828-03 (TW-08)
SC43828-04 (Trip Blank)

1802010

Total Metals by EPA 200/6000 Series Methods

SC43828-03 (TW-08)

1802046

Total Metals by EPA 6000/7000 Series Methods

1802046-BLK1
1802046-BS1
1802046-BSD1
1802046-DUP1
1802046-MS1
1802046-MSD1
1802046-PS1
SC43828-03 (TW-08)

1802047

Volatile Organic Compounds

1802047-BLK1
1802047-BS1
1802047-BSD1
SC43828-01 (TW-06)

S816062

Volatile Organic Compounds

S816062-CAL1
S816062-CAL2
S816062-CAL3
S816062-CAL4
S816062-CAL5
S816062-CAL6
S816062-CAL7
S816062-CAL8
S816062-CAL9
S816062-ICV1
S816062-LCV1
S816062-TUN1

S816680

Volatile Organic Compounds

S816680-CAL1
S816680-CAL2
S816680-CAL3
S816680-CAL4
S816680-CAL5
S816680-CAL6
S816680-CAL7
S816680-CAL8
S816680-CAL9
S816680-ICV1
S816680-LCV1
S816680-TUN1

S816721

Volatile Organic Compounds

S816721-CCV1
S816721-TUN1

S816757

Volatile Organic Compounds

S816757-CCV1
S816757-TUN1