Berkshire Environmental
Services & Technology, LLC

Phase II
Subsurface Investigation

Sun Valley Nursery
136 & 138-140 Croton Avenue
Ossining, New York

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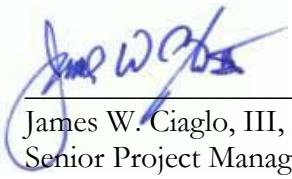

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Table of Contents

1.0 INTRODUCTION

1.1 General

Berkshire Environmental Services and Technology, LLC (Berkshire) was retained by Amak Development, LLC to conduct a Phase II Subsurface Investigation at the Sun Valley Nursery Site located at 136 & 138-140 Croton Avenue in Ossining, New York (Figure 1). The scope of work was conducted in accordance with the Proposal for Phase II Subsurface Investigation prepared by Berkshire for Amak Development, LLC and dated November 6, 2017. Berkshire's scope of work was developed based on the findings outlined in a Phase I Environmental Site Assessment for the Site dated November 30, 2017.

This report summarizes the advancement of thirteen (13) soil borings advanced in areas of concern (AOCs) identified on the Site and the collection and laboratory analysis of soil samples collected from the soil borings on November 16 and 17, 2017.

1.2 Background

The Site is comprised of two (2) adjoining parcels of land and is occupied by Sun Valley Nursery, a business that sells plants and ceramic lawn statues. Both Site parcels have historically contained gasoline stations. The parcel at 136 Croton Avenue was used as a gasoline station from the late 1950s until approximately 1981 and the property at 138-140 Croton Avenue, located to the east of the 136 Croton Avenue parcel, was used as a gasoline station from the 1940s until approximately 1996. All underground storage tanks (USTs) on the Site parcel are reported to have been removed. No closure documentation, however, has been discovered relative to the UST removal activities. The remains of an inground hydraulic vehicle lift are present in the building on the 138-140 Croton Avenue portion of the Site.

A previous subsurface investigation conducted on the 136 Croton Avenue parcel in 1994 revealed the presence of low concentrations of contaminants related to gasoline, including volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs), in several soil samples. Groundwater was not encountered on the Site.

AOCs identified at the Site in the Phase I report included the following:

1. The area of the former gasoline USTs on the western side of the 136 Croton Avenue portion of the Site.

2. The former gasoline pump island located to the northwest of Building #1.

3. The area of the former heating fuel UST located to the south of Building #1.

4. The former area of the inground lift in Building #1.

5. The area of former gasoline USTs along the west and north sides of Building #2.

6. The former gasoline pump island area between Building #2 and Croton Avenue.

7. The inground lift components that remain beneath the floor of Building #2.

Due to the historic use of the Site, performance of a Phase II Subsurface Investigation was recommended. This investigation was designed to address potential impacts associated with historic USTs and gasoline dispensing activities.

1.3 Regulatory Criteria

The Site consists of land developed for commercial use. The Site is connected to the municipal water supply and the sanitary sewer system.

Laboratory analytical results for closure soil samples collected from the soil excavation area were compared with the New York State Department of Environmental Conservation (NYSDEC) Soil Cleanup Objectives (SCOs) for Unrestricted Use, as defined in 6NYCRR Part 375-6.3 and tabulated in Part 375-6.8 and the NYSDEC Soil Cleanup Levels for Gasoline and Fuel Oil Contaminated Soils tabulated in DEC Policy CP-51/Soil Cleanup Guidance.

2.0 GROUND PENETRATING RADAR SURVEY

Due to the lack of written documentation pertaining to the historic removal of USTs from the Site, performance of a ground-penetrating radar (GPR) survey was recommended. The GPR survey was conducted for the purpose of attempting to verify an absence of subsurface anomalies that would be consistent with the presence of USTs. The survey was conducted by Corbuilt, LLC under the direction of Berkshire on November 13, 2017. The survey utilized a Geophysical Survey Systems Utility Scan System which is comprised of a SIR 4000 data acquisition system with a 400 MHz antenna and a Radiodetection RD 7100+ Electromagnetic Induction System.

The survey area included the parking area on the western side of the 136 Croton Avenue parcel where gasoline USTs and a gasoline pump island were historically located as well as the area behind the building at 136 Croton Avenue, in the area of a former heating fuel UST. No anomalies consistent with potential USTs were identified.

On the 138-140 Croton Avenue parcel, the survey area included the areas surrounding the building, including the presumed former locations of USTs on the west and north sides of the building and a former gasoline pump island on the northern portion of the parcel. No anomalies consistent with potential USTs were identified.

3.0 SOIL BORINGS AND SAMPLING

The advancement of soil borings and the collection of soil samples at the Site was conducted on November 16 and 17, 2017. Thirteen (13) soil borings, SB-1 through SB-13, were advanced at representative locations in the identified AOCs. Soil borings were advanced by Soiltesting, Inc. of Oxford, Connecticut. Soiltesting is a New York-licensed drilling contractor.

Soil borings were advanced at representative locations in each of the identified AOCs, as follows:

- Soil borings SB-1, SB-2, and SB-3: Advanced in the areas of former gasoline USTs on the western portion of the 136 Croton Avenue parcel.

- Soil borings SB-4 and SB-5: Advanced in the area of the former gasoline pump island to the northwest of the building on the 136 Croton Avenue parcel.

- Soil boring SB-6: Advanced in the area of the former 1,000-gallon heating fuel UST behind the building on the 136 Croton Avenue parcel.

- Soil borings SB-7, SB-8, SB-9, and SB-10: Advanced in the areas of former gasoline USTs to the west and north of the building on the 138-140 Croton Avenue parcel.

- Soil boring SB-11: Advanced in the area of the former gasoline pump island on the northern portion of the 138-140 Croton Avenue parcel.

- Soil boring SB-12: Advanced at a representative location along the east side of the building on the 138-140 Croton Avenue parcel.

- Soil boring SB-13: Advanced adjacent to the remains of the inground hydraulic vehicle lift inside the building on the 138-140 Croton Avenue parcel.

Soil boring locations are depicted on Figure 2.

3.1 Soil Sample Collection

Soil borings were advanced with the use of a Geoprobe, which is a hydraulically operated, direct push soil boring rig. Soil samples were collected continuously from the ground surface to depths of 10 to 15 feet below grade. In soil boring SB-13, the boring was only advanced to a depth of 5 feet below grade due to limitations created by the height inside the building and height of the mast on the Geoprobe.

Soil samples submitted for laboratory analysis were selected based on the nature of the potential release mechanism at each boring location, visual observations of the soil collected, and the results of field-screening for volatile organic compounds (VOCs) with a photoionization detector (PID). Soil samples for laboratory analysis were collected as follows:

- Soil borings SB-1, SB-2, and SB-3: Advanced in the former gasoline UST area on the 136 Croton Avenue parcel. Soil samples for laboratory analysis were collected from a depth of 3 to 5 feet below grade from SB-1, where an obvious gasoline odor was apparent. Soil samples were collected from depths of 13 to 15 feet below grade from SB-2 and 10 to 12 feet below grade from SB-3. These depths are representative depths below the likely bottom depth of the former USTs.

- Soil borings SB-4 and SB-5: Advanced in the area of the former gasoline pump island to the northwest of the building on the 136 Croton Avenue parcel. Soil samples for laboratory analysis were collected from a depth of 2 to 4 feet below grade from each location where a gasoline odor was noted in soil.

- Soil boring SB-6: Advanced in the area of the former heating fuel UST behind the building on the 136 Croton Avenue parcel. A soil sample for laboratory analysis was collected from a depth of 7 to 9 feet below grade, which is a depth below the likely bottom depth of the former 1,000-gallon UST.

- Soil borings SB-7, SB-8, SB-9, and SB-10: Advanced in the areas of former gasoline USTs to the west and north of the building on the 138-140 Croton Avenue parcel. A soil sample for laboratory analysis was collected from SB-8 at a depth of 2 to 4 feet below grade where a gasoline odor was apparent. Soil samples for laboratory analysis were collected from soil borings SB-7 and SB-9 from depths of 13 to 15 feet below grade and from 10 to 12 feet below grade from SB-10. These depths are representative depths below the likely bottom depth of the former USTs.

- Soil boring SB-11: Advanced in the area of the former gasoline pump island on the northern portion of the 138-140 Croton Avenue parcel. A soil sample for laboratory analysis was collected from a depth of 2 to 4 feet below grade, where a gasoline odor was apparent.

- Soil boring SB-12: Advanced at a representative location along the east side of the building on the 138-140 Croton Avenue parcel. A representative soil sample for laboratory analysis was collected from a depth of 2 to 4 feet below grade.

- Soil boring SB-13: Advanced adjacent to the remains of the inground hydraulic vehicle lift inside the building on the 138-140 Croton Avenue parcel. A soil sample for laboratory analysis was collected from a depth of 4 to 5 feet below grade. A deeper sample could not be collected from this location due to limitations created by the height inside the building and height of the mast on the Geoprobe.

Soil encountered in the soil borings was generally noted to consist of fine to medium-grained brown sand with varying amounts of cobbles. Silt and clay was also noted at several boring locations. Obvious gasoline odors were apparent in soil collected from 0 to 15 feet in SB-1, 0 to 10 feet in SB-4 and SB-5, 0 to 5 feet from SB-8, and 0 to 10 feet from SB-11. A slight petroleum odor was also noted at a depth of 5 feet below grade in SB-13.

Saturated soil indicative of the presence of groundwater was not generally encountered in any of the soil borings. Perched groundwater, however, was noted at a depth of 5 feet below grade in SB-4 and SB-5. Perched groundwater was also noted at the edge of the UST grave at a depth of 5 feet below grade in SB-9. A previous investigation conducted at the Site in 1994 (detailed in the Phase I report),

stated that groundwater was not present in overburden soils on the Site prior to encountering bedrock at depths of 31 to 42 feet below grade.

Soil boring logs are included in Appendix A.

3.2 Soil Sample Analyses

Soil samples selected for laboratory analysis were submitted to Eurofins Spectrum Analytical, Inc. (Eurofins), a New York-certified laboratory, for analysis of volatile organic compounds (VOCs) via EPA Method 8260, polynuclear aromatic hydrocarbons (PAHs) via EPA Method 8270, and the 8 RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) plus beryllium, copper, manganese, nickel, and zinc via total analysis. Soil collected from SB-13, adjacent to the hydraulic lift remains, was analyzed for PAHs via EPA Method 8270 and polychlorinated biphenyls (PCBs) via EPA Method 8082.

Soil samples submitted for VOC analysis were collected from undisturbed soil by immediately extracting soil from the split-spoon sampler with disposable TerraCore samplers. The samples were subsequently placed into pre-weighed, laboratory-preserved vials containing methanol and deionized water in accordance with EPA Method 5030 / 5035, and placed into a cooler and maintained at 4°C until delivery to the laboratory under proper chain of custody protocol.

3.3 Soil Sample Analytical Results

Thirteen (13) soil samples collected from the thirteen (13) exterior soil borings were submitted for laboratory analysis. Additionally, a total of thirty-four (34) soil samples were field-screened for VOCs with a photoionization detector (PID). Table 1 summarizes the laboratory analytical results.

Field screening of soil samples collected from soil borings revealed the presence of detectable concentrations of VOCs in numerous soil samples collected from the Site. These results are detailed in Table 1.

As shown in Table 1, detectable concentrations of VOCs were reported in soil samples analyzed from SB-1, SB-3, SB-4, SB-5, SB-7, SB-8, SB-9, SB-11, and SB-12. None of the VOC concentration reported in the SB-1, SB-7, SB-8, SB-9, or SB-12 samples exceed the applicable Soil Cleanup Levels for Gasoline and Fuel Oil Contaminated Soils detailed in CP-51 or the Unrestricted Use Soil Cleanup Objectives (SCOs).

The 10 to 12 foot sample from SB-3, located at the northern edge of the former gasoline UST area on the 136 Croton Avenue parcel, contained xylenes at a concentration of 710.7 micrograms per kilogram (µg/kg), which exceeds the Cleanup Level of 260 µg/kg. None of the remaining VOCs detected in this sample exceed their respective Cleanup Levels.

In 2 to 4 foot sample collected from SB-4, located in the former gasoline pump island area on the 136 Croton Avenue parcel, VOCs including benzene (5,320 µg/kg), sec-butylbenzene (1,320 µg/kg), ethylbenzene (20,600 µg/kg), isopropylbenzene (2,500 µg/kg), n-propylbenzene (8,540 µg/kg), toluene (50,000 µg/kg), 1,2,4-trimethylbenzene (46,700 µg/kg), 1,3,5-trimethylbenzene (13,800

µg/kg), and xylenes (96,700 µg/kg) were reported at levels exceeding their respective Cleanup Levels. Additionally, the 2 to 4 foot sample from SB-5, also located in the former pump island area, contained benzene (142 µg/kg) and xylenes (1,346 µg/kg) at concentrations exceeding their respective Cleanup Criteria of 60 µg/kg and 260 µg/kg. None of the remaining VOCs detected in these samples exceed their respective Cleanup Levels.

In the 2 to 4 foot soil sample collected from SB-11, in the area of the former pump island on the 138-140 Croton Avenue parcel, VOCs including benzene (2,040 µg/kg), sec-butylbenzene (2,250 µg/kg), ethylbenzene (10,100 µg/kg), isopropylbenzene (2,660 µg/kg), naphthalene (12,100 µg/kg) n-propylbenzene (5,710 µg/kg), toluene (3,440 µg/kg), 1,2,4-trimethylbenzene (52,200 µg/kg), 1,3,5-trimethylbenzene (18,100 µg/kg), and xylenes (44,500 µg/kg) were reported at levels exceeding their respective Cleanup Levels. None of the remaining VOCs detected in this sample exceed their respective Cleanup Levels.

Laboratory analysis for PAHs revealed the presence of detectable concentrations of numerous PAHs in soil samples collected from soil borings SB-1, SB-4, SB-5, SB-8, and SB-11. The PAH concentrations reported in the samples from SB-1 and SB-5 are below their respective Cleanup Levels.

The 2 to 4 foot samples from SB-4, SB-8, and SB-11 contained 2-methylnaphthalene at concentrations of 2,680 µg/kg, 3,510 µg/kg, and 3,380 µg/kg, which exceed the Unrestricted Use SCO of 410 µg/kg. None of the remaining PAHs detected in these samples exceed their respective Cleanup Levels or Unrestricted Use SCOs.

Laboratory analysis of the soil samples for metals revealed the presence of detectable concentrations of arsenic, barium, chromium, mercury, and/or lead in each the samples. The metals concentrations detected, however, are all below their respective Unrestricted Use SCOs.

Neither PCBs nor PAHs were reported in the sample collected from 4 to 5 feet from SB-13, located adjacent to the remains of the hydraulic lift in the building on the 138-140 Croton Avenue parcel.

The complete laboratory analytical report is included in Appendix B.

4.0 SUMMARY OF FINDINGS

Based on the laboratory analytical results for soil samples collected from representative locations in the AOCs identified on the Site, the following conclusions are presented:

- Thirteen (13) soil borings were advanced on the Site, and soil samples collected, on November 16 and 17, 2017. Thirteen (13) soil samples collected from the soil borings were submitted for laboratory analysis.

- Soil encountered in the soil borings was generally noted to consist of fine to medium-grained brown sand with varying amounts of cobbles. Silt and clay were also noted at several soil boring locations.

- Obvious gasoline odors were apparent in soil collected from 0 to 15 feet in SB-1, 0 to 10 feet in SB-4 and SB-5, 0 to 5 feet from SB-8, and 0 to 10 feet from SB-11. A slight petroleum odor was also noted at a depth of 5 feet below grade in SB-13.

- With the exception of SB-4, SB-5, and SB-9, saturated soil indicative of the presence of groundwater was not encountered in any of the soil borings, which were advanced to a maximum depth of 15 feet below grade. At SB-4 and SB-5, perched groundwater was noted at a depth of 5 feet below grade and perched groundwater was noted at the edge of the UST grave at a depth of 5 feet below grade in SB-9.

- Detectable concentrations of VOCs were reported in soil samples analyzed from SB-1, SB-3, SB-4, SB-5, SB-7, SB-8, SB-9, SB-11, and SB-12. None of the VOC concentration reported in the SB-1, SB-7, SB-8, SB-9, or SB-12 samples exceed the applicable Soil Cleanup Levels for Gasoline and Fuel Oil Contaminated Soils detailed in CP-51 or the Unrestricted Use Soil Cleanup Objectives (SCOs).

- The 10 to 12 foot sample from SB-3, located at the northern edge of the former gasoline UST area on the 136 Croton Avenue parcel, contained xylenes at a concentration exceeding the Cleanup Level. The 2 to 4 foot sample collected from SB-4, located in the former gasoline pump island area on the 136 Croton Avenue parcel, contained numerous VOCs relative to gasoline at levels exceeding their respective Cleanup Levels. Additionally, the 2 to 4 foot sample from SB-5, also located in the former pump island area, contained several VOCs at concentrations exceeding their respective Cleanup Criteria

- The 2 to 4 foot soil sample collected from SB-11, in the area of the former pump island on the 138-140 Croton Avenue parcel, contained numerous VOCs related to gasoline at levels exceeding their respective Cleanup Levels.

- Detectable concentrations of PAHs were reported in soil samples collected from soil borings SB-1, SB-4, SB-5, SB-8, and SB-11. The PAH concentrations reported in the samples from SB-1 and SB-5 are below their respective Cleanup Levels.

- The 2 to 4 foot samples from SB-4, SB-8, and SB-11 contained 2-methylnaphthalene at concentrations exceeding the Unrestricted Use SCO. This compound is break-down constituent commonly associated with gasoline

- Laboratory analysis of the soil samples for metals revealed the presence of detectable concentrations of arsenic, barium, chromium, mercury, and/or lead in each the samples. The metals concentrations detected, however, are all below their respective Unrestricted Use SCOs.

- Neither PCBs nor PAHs were reported in the sample collected from 4 to 5 feet from SB-13, located adjacent to the remains of the hydraulic lift in the building on the 138-140 Croton Avenue parcel. Due to limitations created by the height inside the building and height of the mast on the Geoprobe. Impacted soil associated with the lift could be present at deeper depths in this area.

- Based on the soil sample results, impacts consistent with gasoline have been documented in the area of the former gasoline USTs and pump islands on both Site parcels.

In response to these findings, Berkshire makes the following recommendations for additional action at the Site:

- Further investigation of the Site is recommended in order to further define the degree and extent of the gasoline impacts that have been documented. Once the degree and extent of the impacts are determined, potential remedial costs can be prepared.

- If the Site is to be redeveloped, removal and proper disposal of impacted soils on the Site will likely be necessary. Notification should be made to the NYSDEC and Westchester County Department of Health prior to implementing any remedial actions on the Site.

- The remains of the inground hydraulic lift beneath the building on the 138-140 Croton Avenue portion of the Site should be removed. Any impacted soils that are encountered should also be removed and closure soil samples should be collected for laboratory analysis.

- If the building on the 136 Croton Avenue portion of the Site is demolished, exploratory excavation should be conducted in the likely location of the former lift in this building to verify the absence of impacted soil.

FIGURES

LEGEND:

NOTES:

REFERENCE: U.S.G.S. OSSINING, NY QUADRANGLES 2016.

NORTH

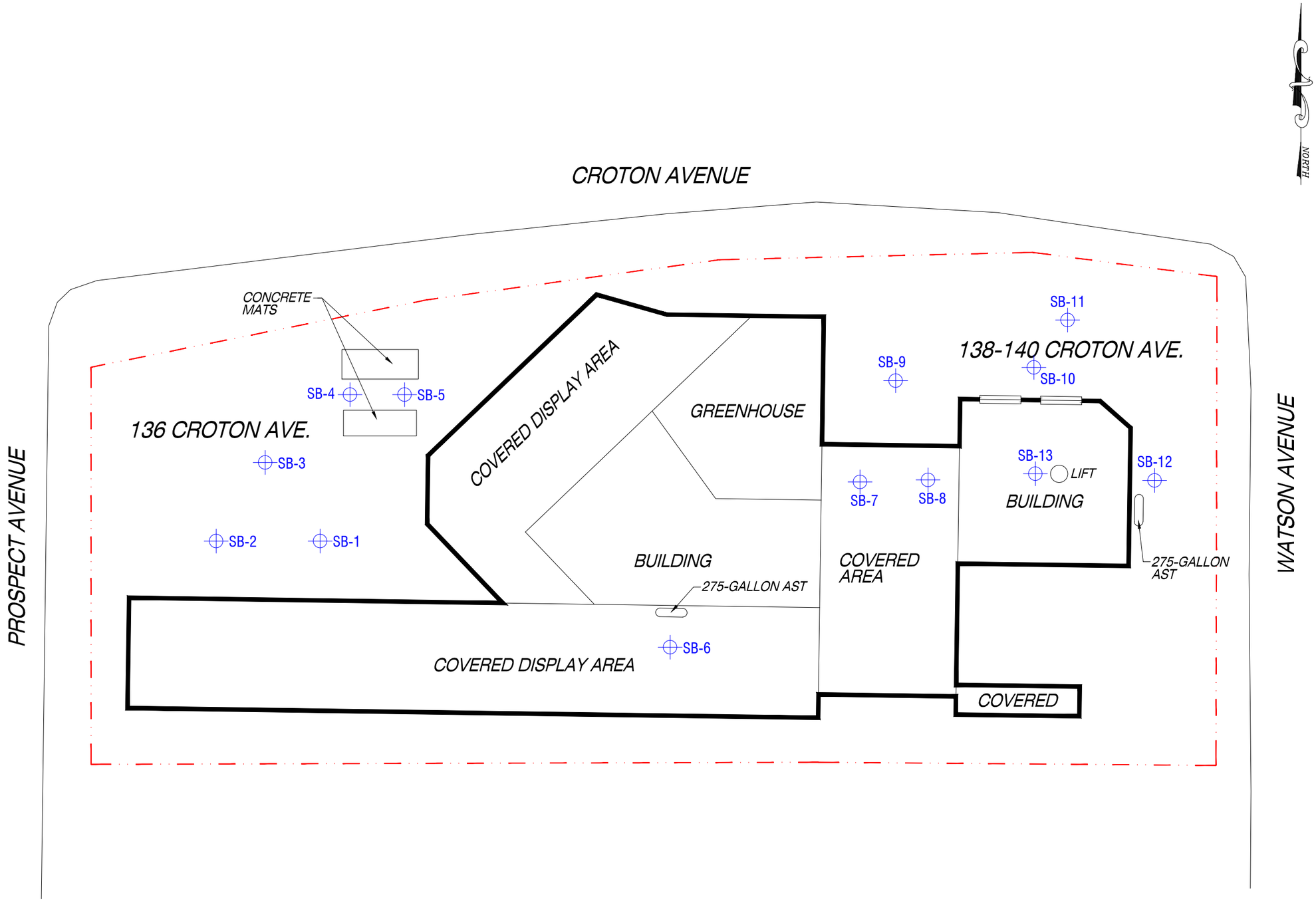
FIGURE 1

SITE LOCATION

SUN VALLEY NURSERY
136 & 138-140 CROTON AVENUE
OSSINING, NEW YORK

Berkshire Environmental Services & Technology, LLC

DATE:	11-28-17
REV. NUMBER:	-
REV. DATE:	-
DRAFTED BY:	MDC
PROJECT NO:	11054.2
DOC NO:	7340FIG1
SCALE:	N.T.S.



LEGEND:

NOTES:

ALL LOCATIONS, DIMENSIONS, AND PROPERTY LINES DEPICTED ON THIS PLAN SHOULD NOT BE USED FOR CONSTRUCTION OR LAND CONVEYANCE PURPOSES.

Berkshire Environmental Services & Technology, LLC

FIGURE 2

SITE PLAN SHOWING SOIL BORING LOCATIONS

SUN VALLEY NURSERY
136 & 138-140 CROTON AVENUE
OSSINING, NEW YORK

DATE:	11-5-17
REV. NUMBER:	-
REV. DATE:	-
DRAFTED BY:	MDC
PROJECT NO:	11054.2
DOC NO:	7340FIG2
SCALE:	N.T.S.

TABLES

Table 1
Soil Sample Results Summary
Sun Valley Nursery
136 & 138-140 Croton Avenue
Ossining, New York

Sample Identification			SB-1/3-5	SB-1/5-10	SB-1/10-15	SB-2/0-5	SB-2/5-10	SB-2/13-15	SB-3/0-5	SB-3/5-10	SB-3/10-12	SB-4/2-4	SB-4/5-10	SB-5/2-4	SB-5/5-10	SB-6/0-5	SB-6/7-9	SB-6/10-15	SB-7/0-5
Sample Depth	**Soil Cleanup**	**Unrestricted**	**3' - 5'**	**5' - 10'**	**10' - 15'**	**0' - 5'**	**5' - 10'**	**13' - 15'**	**0' - 5'**	**5' - 10'**	**10' - 12'**	**2' - 4'**	**5' - 10'**	**2' - 4'**	**5' - 10'**	**0' - 5'**	**7' - 9'**	**10' - 15'**	**0' - 5'**
Sample Date	**Level**	**Use SCO**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2014**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**
PID (ppm)																			
Total VOCs	NS	NS	676	31.7	61.1	8.1	181	171	9.2	4.5	13.2	2,389	1,052	105	31.5	1.9	3.7	2.0	5.7
VOCs (µg/kg)																			
Benzene	60	60	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	***5,320***	-	***142***	-	-	ND<5.64	-	-
n-Butylbenzene	12,000	12,000	624	-	-	-	-	ND<4.09	-	-	71.2	3,390	-	89.4	-	-	ND<5.64	-	-
sec-Butylbenzene	1,000	NS	528	-	-	-	-	ND<4.09	-	-	58.6 J	***1,320***	-	55.2	-	-	ND<5.64	-	-
tert-Butylbenzene	NS	NS	58.2 J	-	-	-	-	ND<4.09	-	-	55.7 J	444 J	-	42.0 J	-	-	ND<5.64	-	-
Ethylbenzene	1,000	1,000	285	-	-	-	-	ND<4.09	-	-	43.0 J	***20,600***	-	324	-	-	ND<5.64	-	-
Ispropylbenzene	2,300	NS	277	-	-	-	-	ND<4.09	-	-	35.3 J	***2,500***	-	43.1 J	-	-	ND<5.64	-	-
4-Isopropyltoluene	10,000	NS	69.0 J	-	-	-	-	ND<4.09	-	-	49.4 J	927	-	38.6 J	-	-	ND<5.64	-	-
Methyl-tert-butyl ether (MTBE)	930	930	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	ND<549	-	ND<55.2	-	-	ND<5.64	-	-
Methylene chloride	NS	50	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	ND<549	-	ND<55.2	-	-	ND<5.64	-	-
Naphthalene	12,000	12,000	1,030	-	-	-	-	ND<4.09	-	-	162	9,340	-	411	-	-	ND<5.64	-	-
n-Propylbenzene	3,900	3,900	1,070	-	-	-	-	ND<4.09	-	-	60.0 J	***8,540***	-	125	-	-	ND<5.64	-	-
Styrene	NS	NS	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	543 J	-	ND<55.2	-	-	ND<5.64	-	-
Toluene	700	700	ND<71.8	-	-	-	-	ND<4.09	-	-	ND<70.5	***50,000***	-	149	-	-	ND<5.64	-	-
1,2,4-Trimethylbenzene	3,600	3,600	511	-	-	-	-	ND<4.09	-	-	133	***46,700***	-	936	-	-	ND<5.64	-	-
1,3,5-Trimethylbenzene	8,400	8,400	204	-	-	-	-	ND<4.09	-	-	347	***13,800***	-	278	-	-	ND<5.64	-	-
Total Xylenes	260	260	125 J	-	-	-	-	ND<8.18	-	-	***710.7***	***96,700***	-	***1,346***	-	-	ND<11.3	-	-
PAHs (µg/kg)																			
Benzo (a) anthracene	1,000	1,000	50.2 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (a) pyrene	1,000	1,000	51.6 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (b) fluoranthene	1,000	1,000	39.8 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Benzo (k) fluoranthene	800	800	45.9 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Chrysene	1,000	1,000	50.9 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
Fluoranthene	100,000	100,000	68.4 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
1-Methylnaphthalene	NS	NS	129	-	-	-	-	ND<73.4	-	-	ND<362	1,010	-	ND<73.2	-	-	ND<72.6	-	-
2-Methylnaphthalene	NS	410	286	-	-	-	-	ND<73.4	-	-	ND<362	***2,680***	-	67.0 J	-	-	ND<72.6	-	-
Naphthalene	12,000	12,000	97	-	-	-	-	ND<73.4	-	-	ND<362	1,070	-	ND<73.2	-	-	ND<72.6	-	-
Pyrene	100,000	100,000	55.5 J	-	-	-	-	ND<73.4	-	-	ND<362	ND<72.6	-	ND<73.2	-	-	ND<72.6	-	-
PCBs (µg/kg)																			
Total PCBs	NS	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/kg)																			
Arsenic	NS	13	0.498 J	-	-	-	-	ND<1.56	-	-	0.510 J	0.390 J	-	0.456	-	-	0.595 J	-	-
Barium	NS	350	129	-	-	-	-	127	-	-	126.0	149.0	-	161.0	-	-	151.0	-	-
Chromium	NS	30	22.2	-	-	-	-	21.5	-	-	24.7	19.3	-	23.6	-	-	22.5	-	-
Mercury	NS	0.18	ND<0.0086	-	-	-	-	ND<0.0086	-	-	ND<0.0084	ND<0.0091	-	ND<0.0090	-	-	ND<0.0086	-	-
Lead	NS	63	4.78	-	-	-	-	3.06	-	-	3.37	7.04	-	4.01	-	-	4.20	-	-

Continued

Table 1
Soil Sample Results Summary
Sun Valley Nursery
136 & 138-140 Croton Avenue
Ossining, New York

Sample Identification			SB-7/5-10	SB-7/13-15	SB-8/2-4	SB-8/5-10	SB-8/10-15	SB-9/0-5	SB-9/5-10	SB-9/13-15	SB-10/0-5	SB-10/5-10	SB-10/10-12	SB-11/2-4	SB-11/5-10	SB-12/1-3	SB-12/5-10	SB-12/10-15	SB-13/4-5
Sample Depth	**Soil Cleanup**	**Unrestricted**	**5' - 10'**	**13' - 15'**	**2' - 4'**	**5' - 10'**	**10' - 15'**	**0' - 5'**	**5' - 10'**	**13' - 15'**	**0' - 5'**	**5' - 10'**	**10' - 12'**	**2' - 4'**	**5' - 10'**	**1' - 3'**	**5' - 10'**	**10' - 15'**	**4' - 5'**
Sample Date	**Level**	**Use SCO**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/16/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**	**11/17/2017**
PID (ppm)																			
Total VOCs	NS	NS	1.7	1.9	1,240	7.2	5.2	0.2	3.0	12.6	0.0	0.0	0.0	1,472	2.9	0.0	0.0	0.0	0.0
VOCs (µg/kg)																			
Benzene	60	60	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,040***	-	ND<5.16	-	-	-
n-Butylbenzene	12,000	12,000	-	ND<4.73	57.2	-	-	-	-	ND<9.69	-	-	ND<4.73	5,230	-	ND<5.16	-	-	-
sec-Butylbenzene	1,000	NS	-	ND<4.73	44.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,250***	-	ND<5.16	-	-	-
tert-Butylbenzene	NS	NS	-	ND<4.73	44.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	1,170 J	-	ND<5.16	-	-	-
Ethylbenzene	1,000	1,000	-	ND<4.73	30.8 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***10,100***	-	ND<5.16	-	-	-
Ispropylbenzene	2,300	NS	-	ND<4.73	27.5 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***2,660***	-	ND<5.16	-	-	-
4-Isopropyltoluene	10,000	NS	-	ND<4.73	23.7 J	-	-	-	-	ND<9.69	-	-	ND<4.73	2,820	-	ND<5.16	-	-	-
Methyl-tert-butyl ether (MTBE)	930	930	-	2.26 J	ND<55.0	-	-	-	-	7.09 J	-	-	ND<4.73	ND<1,270	-	ND<5.16	-	-	-
Methylene chloride	NS	50	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	ND<1,270	-	2.14 J	-	-	-
Naphthalene	12,000	12,000	-	ND<4.73	79.2	-	-	-	-	ND<9.69	-	-	ND<4.73	***12,100***	-	ND<5.16	-	-	-
n-Propylbenzene	3,900	3,900	-	ND<4.73	48.9 J	-	-	-	-	ND<9.69	-	-	ND<4.73	***5,710***	-	ND<5.16	-	-	-
Styrene	NS	NS	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	ND<1,270	-	ND<5.16	-	-	-
Toluene	700	700	-	ND<4.73	ND<55.0	-	-	-	-	ND<9.69	-	-	ND<4.73	***3,440***	-	ND<5.16	-	-	-
1,2,4-Trimethylbenzene	3,600	3,600	-	ND<4.73	153	-	-	-	-	ND<9.69	-	-	ND<4.73	***52,200***	-	ND<5.16	-	-	-
1,3,5-Trimethylbenzene	8,400	8,400	-	ND<4.73	67.1	-	-	-	-	ND<9.69	-	-	ND<4.73	***18,100***	-	ND<5.16	-	-	-
Total Xylenes	260	260	-	ND<9.46	158	-	-	-	-	ND<19.4	-	-	ND<9.47	***44,500***	-	ND<10.1	-	-	-
PAHs (µg/kg)																			
Benzo (a) anthracene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (a) pyrene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (b) fluoranthene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Benzo (k) fluoranthene	800	800	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Chrysene	1,000	1,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
Fluoranthene	100,000	100,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
1-Methylnaphthalene	NS	NS	-	ND<73.9	1,810	-	-	-	-	ND<73.2	-	-	ND<72.4	1,270	-	ND<73.0	-	-	ND<73.1
2-Methylnaphthalene	NS	410	-	ND<73.9	***3,510***	-	-	-	-	ND<73.2	-	-	ND<72.4	***3,380***	-	ND<73.0	-	-	ND<73.1
Naphthalene	12,000	12,000	-	ND<73.9	2,520	-	-	-	-	ND<73.2	-	-	ND<72.4	1,500	-	ND<73.0	-	-	ND<73.1
Pyrene	100,000	100,000	-	ND<73.9	ND<3,480	-	-	-	-	ND<73.2	-	-	ND<72.4	ND<73.1	-	ND<73.0	-	-	ND<73.1
PCBs (µg/kg)																			
Total PCBs	NS	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND<21.9
Metals (mg/kg)																			
Arsenic	NS	13	-	0.529 J	2.79	-	-	-	-	0.327 J	-	-	0.712 J	0.863 J	-	0.953 J	-	-	-
Barium	NS	350	-	166.0	67.8	-	-	-	-	163.0	-	-	133.0	139	-	137.0	-	-	-
Chromium	NS	30	-	24.4	16.0	-	-	-	-	24.3	-	-	23.6	22.3	-	23.4	-	-	-
Mercury	NS	0.18	-	ND<0.0090	0.0359	-	-	-	-	ND<0.0086	-	-	ND<0.0091	ND<0.0091	-	ND<0.0080	-	-	-
Lead	NS	63	-	4.96	42.1	-	-	-	-	4.14	-	-	4.35	9.13	-	8.82	-	-	-

Notes:
Only detected compounds presented in Table
- = not analyzed for specified parameter
ug/kg = micrograms per kilogram = parts per billion = ppb
mg/kg = milligrams per kilogram = parts per million = ppm
J = concentration detected above method detection limit (MDL) but below reportable detection limit (RDL)
BDL<50 = below specified laboratory detection limit
Soil Cleanup Level from NYSDEC CP-51
SCO = Soil Clean-up Objective from 6NYCRR Subpart 375-6 and CP-51
NS = No standard in Subpart 375-6 or CP-51
Bold = Concentration greater than Soil Cleanup Level or Unrestricted Use SCO

Berkshire Environmental Services & Technology, LLC

APPENDIX A

SOIL BORING LOGS

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-1	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			676	5		Brown fine to medium sand and cobbles, dry, gasoline odor
			31.7	10		Brown fine sand and silt, few cobbles, dense, dry, slight gasoline odor End of Boring @ 15'
			61.1	15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-2	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			8.1	5		Brown fine to medium sand and cobbles, dry, no odor
			181	10		Brown fine to medium sand and cobbles, dense, dry, no odor
			171	15		Brown fine to medium sand and cobbles, trace clay, dense, dry, no odor End of Boring @ 15'

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-3	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			9.2	5		Brown fine to medium sand, few cobbles, dense, dry, no odor End of Boring @ 15'
			4.5			
			13.2	10		
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-4	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			2,389	5		Brown fine to medium sand, few cobbles, dry, strong gasoline odor
			1,126	10		Brown fine to medium sand, dense, moderate gasoline odor, perched water noted at 5' End of Boring @ 10'
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-5	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			105	5		Brown fine to medium sand and silt, dense, few cobbles, dry, moderate gasoline odor
			31.5	10		Brown fine to medium sand and silt, very dense, slight to moderate gasoline odor, perched water noted at 5' End of Boring @ 10'
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-6	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			1.9	5		Brown fine sand and cobbles, trace silt, dry, no odor
			3.7	10		Brown fine to medium sand and cobbles, dense, dry, no odor End of Boring @ 15'
			2.0	15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-7	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			5.7			Brown fine sand and silt, dense, dry, no odor
				5		Brown silt, dense, dry, no odor
			1.7			Dark brown fine sand and silt, few cobbles, dense
				10		Dark brown to gray silt and clay, dense, moist, no odor
						Gray silt and clay, some cobbles, dense, moist, no odor
						End of Boring @ 15'
			1.9	15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-8	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			84.0	5		Brown to black fine to medium sand, dry, gasoline odor
			7.2	10		Brown to gray fine to medium sand, some silt, trace clay, dense, dry, no odor
			5.2	15		Brown to gray fine sand and silt, some cobbles, dense, dry, no odor End of Boring @ 15'

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-16-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-9	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0.2	5		Brown to gray fine sand and silt, few cobbles, dense, dry, no odor
			3.0	10		Brown to gray fine sand and silt, some clay, dense, wet, no odor, Perched water at edge of UST grave
			12.6	15		Brown fine to medium sand and cobbles, trace silt, dry, no odor End of Boring @ 15'

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-17-17	Logged By: J. Ciaglo
Boring Dia: 2.25 Inches	Boring Number: SB-10	

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0.0	5		Brown fine to medium sand, few cobbles, dense, dry, no odor End of Boring @ 15'
			0.0			
			0.0	10		
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-17-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-11	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			1,472	5		Gray fine to medium sand and cobbles, dense, dry, gasoline odor
			2.9	10		Gray fine to medium sand and cobbles, dense, dry, gasoline odor End of Boring @ 10'
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-17-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-12	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
			0.0			Brown fine to medium sand and cobbles, dense, dry, no odor
				5		
			0.0			Brown fine to medium sand and cobbles, very dense, dry, no odor End of Boring @ 15'
				10		
			0.0			
				15		

Completion Notes:

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

DIRECT PUSH BORING LOG

Berkshire Environmental Services & Technology, LLC

Drill Rig: Geoprobe 6610DT	Date Drilled: 11-17-17	Logged By:
Boring Dia: 2.25 Inches	Boring Number: SB-13	J. Ciaglo

Sample	Recovery (%)	Completion	PID (ppm)	Depth Feet	Lithology	Description
						Concrete
						Brown fine to medium sand, dense, dry, slight petroleum odor at 5'
						End of Boring @ 5'
			0.0	5		
				10		
				15		

Completion Notes:

Unable to advance boring deeper due to low overhead clearance.

Site:

136 & 138-140 Croton Avenue
Ossining, New York

Project No.: 11054.2

Page 1

APPENDIX B

LABORATORY ANALYTICAL REPORTS

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
22-Nov-17 16:34

Laboratory Report
SC41669

Berkshire Environmental Services & Technology, LLC
214 East Elm Street, PO Box 1976
Torrington, CT 06790
Attn: James Ciaglo

Project: 136+138-140 Croton Ave - Ossining, NY
Project #: 11054.2

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:

Kimberly Laplante
Quality Assurance Manager

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 90 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: SC41669

Project: 136+138-140 Croton Ave - Ossining, NY

Project Number: 11054.2

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC41669-01	SB-1/3-5	Soil	16-Nov-17 09:34	17-Nov-17 16:35
SC41669-02	SB-2/13-15	Soil	16-Nov-17 10:20	17-Nov-17 16:35
SC41669-03	SB-3/10-12	Soil	16-Nov-17 10:40	17-Nov-17 16:35
SC41669-04	SB-4/2-4	Soil	16-Nov-17 10:52	17-Nov-17 16:35
SC41669-05	SB-5/2-4	Soil	16-Nov-17 11:02	17-Nov-17 16:35
SC41669-06	SB-6/7-9	Soil	16-Nov-17 11:41	17-Nov-17 16:35
SC41669-07	SB-7/13-15	Soil	16-Nov-17 12:29	17-Nov-17 16:35
SC41669-08	SB-8/2-4	Soil	16-Nov-17 12:43	17-Nov-17 16:35
SC41669-09	SB-9/13-15	Soil	16-Nov-17 13:24	17-Nov-17 16:35
SC41669-10	SB-10/10-12	Soil	17-Nov-17 08:50	17-Nov-17 16:35
SC41669-11	SB-11/2-4	Soil	17-Nov-17 08:58	17-Nov-17 16:35
SC41669-12	SB-12/1-3	Soil	17-Nov-17 09:24	17-Nov-17 16:35
SC41669-13	SB-13/4-5	Soil	17-Nov-17 10:06	17-Nov-17 16:35
SC41669-14	Trip Blank	Methanol/Deionized Water	16-Nov-17 06:00	17-Nov-17 16:35

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 2.5 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.

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

SW846 6010C

Spikes:

1719476-MSD1 *Source: SC41669-07*

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

Silver

Duplicates:

1719476-DUP1 *Source: SC41669-07*

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

Cadmium

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Arsenic

Samples:

SC41669-01 *SB-1/3-5*

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

Cadmium

SC41669-02 *SB-2/13-15*

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

Cadmium

SC41669-03 *SB-3/10-12*

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

Cadmium

SW846 6010C

Samples:

SC41669-04 *SB-4/2-4*

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

Cadmium

SC41669-05 *SB-5/2-4*

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

Cadmium

SC41669-06 *SB-6/7-9*

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

Cadmium

SC41669-07 *SB-7/13-15*

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

Cadmium

SC41669-08 *SB-8/2-4*

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

Cadmium

SC41669-09 *SB-9/13-15*

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

Cadmium

SC41669-10 *SB-10/10-12*

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

Cadmium

SC41669-11 *SB-11/2-4*

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

Cadmium

SC41669-12 *SB-12/1-3*

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

Cadmium

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1710003

This affected the following samples:

1719503-BLK1
1719503-BS1
1719503-BSD1
S708708-ICV1
S710206-CCV1
SB-10/10-12
SB-12/1-3
SB-2/13-15
SB-6/7-9
SB-7/13-15
SB-9/13-15
Trip Blank

1711038

Analyte quantified by quadratic equation type calibration.

1,1-Dichloropropene
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)
Bromodichloromethane
Bromoform
Bromomethane
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
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

S710171-ICV1

Laboratory Control Samples:

1719503 BS/BSD

SW846 8260C

Laboratory Control Samples:

1719503 BS/BSD

1,4-Dioxane percent recoveries (68/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-10/10-12
SB-12/1-3
SB-2/13-15
SB-6/7-9
SB-7/13-15
SB-9/13-15
Trip Blank

trans-1,4-Dichloro-2-butene percent recoveries (65/79) 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-10/10-12
SB-12/1-3
SB-2/13-15
SB-6/7-9
SB-7/13-15
SB-9/13-15
Trip Blank

1719513 BSD

1,1-Dichloroethene RPD 45% (30%) is outside individual acceptance criteria.

Acetone RPD 32% (30%) is outside individual acceptance criteria.

Carbon disulfide RPD 36% (30%) is outside individual acceptance criteria.

Ethyl ether RPD 44% (30%) is outside individual acceptance criteria.

1719572 BS/BSD

Carbon disulfide percent recoveries (136/81) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-1/3-5
SB-4/2-4
SB-5/2-4
SB-8/2-4

Methylene chloride percent recoveries (73/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-1/3-5
SB-4/2-4
SB-5/2-4
SB-8/2-4

1719572 BSD

Carbon disulfide RPD 50% (30%) is outside individual acceptance criteria.

Trichlorofluoromethane (Freon 11) RPD 31% (30%) is outside individual acceptance criteria.

1719678 BS/BSD

SW846 8260C

Laboratory Control Samples:

1719678 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries (65/84) 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-4/2-4

Acrylonitrile percent recoveries (69/91) 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-4/2-4

Methylene chloride percent recoveries (61/78) 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-4/2-4

1719678 BSD

Carbon disulfide RPD 37% (30%) is outside individual acceptance criteria.

Spikes:

1719513-MS1 *Source: SC41669-01*

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

1,1,2-Trichlorotrifluoroethane (Freon 113)
2-Butanone (MEK)
Bromomethane
Dichlorodifluoromethane (Freon12)
Naphthalene
n-Propylbenzene
Trichlorofluoromethane (Freon 11)
Vinyl chloride

1719513-MSD1 *Source: SC41669-01*

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

1,1,2-Trichlorotrifluoroethane (Freon 113)
2-Butanone (MEK)
Dichlorodifluoromethane (Freon12)
n-Propylbenzene
Trichlorofluoromethane (Freon 11)
Vinyl chloride

Samples:

S710205-CCV1

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

2,2-Dichloropropane (26.2%)
Carbon disulfide (25.6%)

SW846 8260C

Samples:

S710205-CCV1

This affected the following samples:

1719513-BLK1
1719513-BS1
1719513-BSD1
1719513-MS1
1719513-MSD1
SB-11/2-4
SB-3/10-12
Trip Blank

S710206-CCV1

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

1,2-Dibromo-3-chloropropane (-22.5%)
Tetrahydrofuran (-28.6%)
Trichlorofluoromethane (Freon 11) (28.1%)

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

1,4-Dioxane (-32.3%)
2-Hexanone (MBK) (-21.0%)
trans-1,4-Dichloro-2-butene (-34.6%)

This affected the following samples:

1719503-BLK1
1719503-BS1
1719503-BSD1
SB-10/10-12
SB-12/1-3
SB-2/13-15
SB-6/7-9
SB-7/13-15
SB-9/13-15
Trip Blank

S710248-CCV1

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

1,1,2-Trichlorotrifluoroethane (Freon 113) (-21.3%)
Methylene chloride (-30.6%)

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

Bromomethane (-21.8%)

This affected the following samples:

1719572-BLK1
1719572-BS1
1719572-BSD1
SB-1/3-5
SB-4/2-4
SB-5/2-4
SB-8/2-4

S710300-CCV1

SW846 8260C

Samples:

S710300-CCV1

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

2,2-Dichloropropane (28.8%)
Bromobenzene (26.8%)
Bromochloromethane (23.4%)
Carbon disulfide (-24.8%)
Hexachlorobutadiene (28.1%)
Methylene chloride (-21.5%)

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

trans-1,4-Dichloro-2-butene (23.2%)

This affected the following samples:

1719678-BLK1
1719678-BS1
1719678-BSD1
SB-4/2-4

SC41669-01RE1 *SB-1/3-5*

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

SC41669-03 *SB-3/10-12*

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

SC41669-04 *SB-4/2-4*

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

SC41669-04RE1 *SB-4/2-4*

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

SC41669-05 *SB-5/2-4*

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

SC41669-08 *SB-8/2-4*

Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

SC41669-11 *SB-11/2-4*

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

SW846 8270D

Samples:

S710268-CCV1

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

Benzo (k) fluoranthene (-26.9%)

SW846 8270D

Samples:

S710268-CCV1

This affected the following samples:

1719475-BLK1
1719475-BS1
1719475-BSD1

S710293-CCV1

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

2-Methylnaphthalene (26.4%)

This affected the following samples:

SB-10/10-12
SB-11/2-4
SB-12/1-3
SB-13/4-5
SB-2/13-15
SB-5/2-4
SB-7/13-15
SB-9/13-15

S710294-CCV1

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

Benzo (b) fluoranthene (22.9%)

This affected the following samples:

SB-1/3-5
SB-3/10-12
SB-4/2-4
SB-6/7-9
SB-8/2-4

SC41669-03 *SB-3/10-12*

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

SC41669-08 *SB-8/2-4*

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

Sample Acceptance Check Form

Client:	Berkshire Environmental Services & Technology, LLC
Project:	136+138-140 Croton Ave - Ossining, NY / 11054.2
Work Order:	SC41669
Sample(s) received on:	11/17/2017

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: SC41669-01 **Client ID:** SB-1/3-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.498	J	1.57	mg/kg	SW846 6010C
Barium	129		1.05	mg/kg	SW846 6010C
Chromium	22.2		1.05	mg/kg	SW846 6010C
Lead	4.78		1.57	mg/kg	SW846 6010C
1-Methylnaphthalene	129		71.7	µg/kg	SW846 8270D
2-Methylnaphthalene	286		71.7	µg/kg	SW846 8270D
Benzo (a) anthracene	50.2	J	71.7	µg/kg	SW846 8270D
Benzo (a) pyrene	51.6	J	71.7	µg/kg	SW846 8270D
Benzo (b) fluoranthene	39.8	J	71.7	µg/kg	SW846 8270D
Benzo (k) fluoranthene	45.9	J	71.7	µg/kg	SW846 8270D
Chrysene	50.9	J	71.7	µg/kg	SW846 8270D
Fluoranthene	68.4	J	71.7	µg/kg	SW846 8270D
Naphthalene	96.7		71.7	µg/kg	SW846 8270D
Pyrene	55.5	J	71.7	µg/kg	SW846 8270D

Lab ID: SC41669-01RE1 **Client ID:** SB-1/3-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	511	D	71.8	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	204	D	71.8	µg/kg	SW846 8260C
4-Isopropyltoluene	69.0	J, D	71.8	µg/kg	SW846 8260C
Ethylbenzene	285	D	71.8	µg/kg	SW846 8260C
Isopropylbenzene	277	D	71.8	µg/kg	SW846 8260C
m,p-Xylene	92.7	J, D	144	µg/kg	SW846 8260C
Naphthalene	1030	D	71.8	µg/kg	SW846 8260C
n-Butylbenzene	624	D	71.8	µg/kg	SW846 8260C
n-Propylbenzene	1070	D	71.8	µg/kg	SW846 8260C
o-Xylene	32.3	J, D	71.8	µg/kg	SW846 8260C
sec-Butylbenzene	258	D	71.8	µg/kg	SW846 8260C
tert-Butylbenzene	58.2	J, D	71.8	µg/kg	SW846 8260C

Lab ID: SC41669-02 **Client ID:** SB-2/13-15

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Barium	127		1.04	mg/kg	SW846 6010C
Chromium	21.5		1.04	mg/kg	SW846 6010C
Lead	3.06		1.56	mg/kg	SW846 6010C

Lab ID: SC41669-03 **Client ID:** SB-3/10-12

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.510	J	1.63	mg/kg	SW846 6010C
Barium	126		1.09	mg/kg	SW846 6010C
Chromium	24.7		1.09	mg/kg	SW846 6010C
Lead	3.37		1.63	mg/kg	SW846 6010C
1,2,4-Trimethylbenzene	133	D	70.5	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	347	D	70.5	µg/kg	SW846 8260C
4-Isopropyltoluene	49.4	J, D	70.5	µg/kg	SW846 8260C
Ethylbenzene	43.0	J, D	70.5	µg/kg	SW846 8260C
Isopropylbenzene	35.3	J, D	70.5	µg/kg	SW846 8260C
m,p-Xylene	55.7	J, D	141	µg/kg	SW846 8260C
Naphthalene	162	D	70.5	µg/kg	SW846 8260C
n-Butylbenzene	71.2	D	70.5	µg/kg	SW846 8260C
n-Propylbenzene	60.0	J, D	70.5	µg/kg	SW846 8260C
o-Xylene	655	D	70.5	µg/kg	SW846 8260C
sec-Butylbenzene	58.6	J, D	70.5	µg/kg	SW846 8260C
tert-Butylbenzene	55.7	J, D	70.5	µg/kg	SW846 8260C

Lab ID: SC41669-04 **Client ID:** SB-4/2-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.390	J	1.52	mg/kg	SW846 6010C
Barium	149		1.01	mg/kg	SW846 6010C
Chromium	19.3		1.01	mg/kg	SW846 6010C
Lead	7.04		1.52	mg/kg	SW846 6010C
1,2,4-Trimethylbenzene	46700	D	549	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	13800	D	549	µg/kg	SW846 8260C
4-Isopropyltoluene	927	D	549	µg/kg	SW846 8260C
Benzene	5320	D	549	µg/kg	SW846 8260C
Ethylbenzene	20600	D	549	µg/kg	SW846 8260C
Isopropylbenzene	2500	D	549	µg/kg	SW846 8260C
m,p-Xylene	69300	D, E	1100	µg/kg	SW846 8260C
Naphthalene	9340	D	549	µg/kg	SW846 8260C
n-Butylbenzene	3390	D	549	µg/kg	SW846 8260C
n-Propylbenzene	8540	D	549	µg/kg	SW846 8260C
o-Xylene	30100	D	549	µg/kg	SW846 8260C
sec-Butylbenzene	1320	D	549	µg/kg	SW846 8260C
Styrene	543	J, D	549	µg/kg	SW846 8260C
tert-Butylbenzene	444	J, D	549	µg/kg	SW846 8260C
Toluene	50000	D	549	µg/kg	SW846 8260C
1-Methylnaphthalene	1010		72.6	µg/kg	SW846 8270D
2-Methylnaphthalene	2680		72.6	µg/kg	SW846 8270D
Naphthalene	1070		72.6	µg/kg	SW846 8270D

Lab ID: SC41669-04RE1 **Client ID:** SB-4/2-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,2,4-Trimethylbenzene	43300	D	1100	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	12600	D	1100	µg/kg	SW846 8260C
4-Isopropyltoluene	1170	D	1100	µg/kg	SW846 8260C
Benzene	4530	D	1100	µg/kg	SW846 8260C
Ethylbenzene	18800	D	1100	µg/kg	SW846 8260C
Isopropylbenzene	2430	D	1100	µg/kg	SW846 8260C
m,p-Xylene	66600	D	2190	µg/kg	SW846 8260C
Naphthalene	7350	D	1100	µg/kg	SW846 8260C
n-Butylbenzene	3570	D	1100	µg/kg	SW846 8260C
n-Propylbenzene	7960	D	1100	µg/kg	SW846 8260C
o-Xylene	26600	D	1100	µg/kg	SW846 8260C
sec-Butylbenzene	1660	D	1100	µg/kg	SW846 8260C
Styrene	834	J, D	1100	µg/kg	SW846 8260C
tert-Butylbenzene	867	J, D	1100	µg/kg	SW846 8260C
Toluene	45300	D	1100	µg/kg	SW846 8260C

Lab ID: SC41669-05 **Client ID:** SB-5/2-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.456	J	1.65	mg/kg	SW846 6010C
Barium	161		1.10	mg/kg	SW846 6010C
Chromium	23.6		1.10	mg/kg	SW846 6010C
Lead	4.01		1.65	mg/kg	SW846 6010C
1,2,4-Trimethylbenzene	936	D	55.2	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	278	D	55.2	µg/kg	SW846 8260C
4-Isopropyltoluene	38.6	J, D	55.2	µg/kg	SW846 8260C
Benzene	142	D	55.2	µg/kg	SW846 8260C
Ethylbenzene	324	D	55.2	µg/kg	SW846 8260C
Isopropylbenzene	43.1	J, D	55.2	µg/kg	SW846 8260C
m,p-Xylene	1040	D	110	µg/kg	SW846 8260C
Naphthalene	411	D	55.2	µg/kg	SW846 8260C
n-Butylbenzene	89.4	D	55.2	µg/kg	SW846 8260C
n-Propylbenzene	125	D	55.2	µg/kg	SW846 8260C
o-Xylene	306	D	55.2	µg/kg	SW846 8260C
sec-Butylbenzene	55.2	D	55.2	µg/kg	SW846 8260C
tert-Butylbenzene	42.0	J, D	55.2	µg/kg	SW846 8260C
Toluene	149	D	55.2	µg/kg	SW846 8260C
2-Methylnaphthalene	67.0	J	73.2	µg/kg	SW846 8270D

Lab ID: SC41669-06 **Client ID:** SB-6/7-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.595	J	1.54	mg/kg	SW846 6010C
Barium	151		1.03	mg/kg	SW846 6010C
Chromium	22.5		1.03	mg/kg	SW846 6010C
Lead	4.20		1.54	mg/kg	SW846 6010C

Lab ID: SC41669-07 **Client ID:** SB-7/13-15

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.529	J	1.60	mg/kg	SW846 6010C
Barium	166		1.07	mg/kg	SW846 6010C
Chromium	24.4		1.07	mg/kg	SW846 6010C
Lead	4.96		1.60	mg/kg	SW846 6010C
Methyl tert-butyl ether	2.26	J	4.73	µg/kg	SW846 8260C

Lab ID: SC41669-08 **Client ID:** SB-8/2-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	2.79		1.51	mg/kg	SW846 6010C
Barium	67.8		1.00	mg/kg	SW846 6010C
Chromium	16.0		1.00	mg/kg	SW846 6010C
Lead	42.1		1.51	mg/kg	SW846 6010C
Mercury	0.0359		0.0286	mg/kg	SW846 7471B
1,2,4-Trimethylbenzene	153	D	55.0	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	67.1	D	55.0	µg/kg	SW846 8260C
4-Isopropyltoluene	35.7	J, D	55.0	µg/kg	SW846 8260C
Ethylbenzene	30.8	J, D	55.0	µg/kg	SW846 8260C
Isopropylbenzene	27.5	J, D	55.0	µg/kg	SW846 8260C
m,p-Xylene	125	D	110	µg/kg	SW846 8260C
Naphthalene	79.2	D	55.0	µg/kg	SW846 8260C
n-Butylbenzene	57.2	D	55.0	µg/kg	SW846 8260C
n-Propylbenzene	48.9	J, D	55.0	µg/kg	SW846 8260C
o-Xylene	33.0	J, D	55.0	µg/kg	SW846 8260C
sec-Butylbenzene	44.5	J, D	55.0	µg/kg	SW846 8260C
tert-Butylbenzene	44.5	J, D	55.0	µg/kg	SW846 8260C
1-Methylnaphthalene	1810	J, D	3480	µg/kg	SW846 8270D
2-Methylnaphthalene	3510	D	3480	µg/kg	SW846 8270D
Naphthalene	2520	J, D	3480	µg/kg	SW846 8270D

Lab ID: SC41669-09 **Client ID:** SB-9/13-15

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.327	J	1.51	mg/kg	SW846 6010C
Barium	163		1.01	mg/kg	SW846 6010C
Chromium	24.3		1.01	mg/kg	SW846 6010C
Lead	4.14		1.51	mg/kg	SW846 6010C
Methyl tert-butyl ether	7.09	J	9.69	µg/kg	SW846 8260C

Lab ID: SC41669-10 **Client ID:** SB-10/10-12

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.712	J	1.56	mg/kg	SW846 6010C
Barium	133		1.04	mg/kg	SW846 6010C
Chromium	23.6		1.04	mg/kg	SW846 6010C
Lead	4.35		1.56	mg/kg	SW846 6010C

Lab ID: SC41669-11 **Client ID:** SB-11/2-4

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.863	J	1.65	mg/kg	SW846 6010C
Barium	139		1.10	mg/kg	SW846 6010C
Chromium	22.3		1.10	mg/kg	SW846 6010C
Lead	9.13		1.65	mg/kg	SW846 6010C
1,2,4-Trimethylbenzene	52200	D	1270	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	18100	D	1270	µg/kg	SW846 8260C
4-Isopropyltoluene	2820	D	1270	µg/kg	SW846 8260C
Benzene	2040	D	1270	µg/kg	SW846 8260C
Ethylbenzene	10100	D	1270	µg/kg	SW846 8260C
Isopropylbenzene	2660	D	1270	µg/kg	SW846 8260C
m,p-Xylene	33900	D	2540	µg/kg	SW846 8260C
Naphthalene	12100	D	1270	µg/kg	SW846 8260C
n-Butylbenzene	5230	D	1270	µg/kg	SW846 8260C
n-Propylbenzene	5710	D	1270	µg/kg	SW846 8260C
o-Xylene	10600	D	1270	µg/kg	SW846 8260C
sec-Butylbenzene	2250	D	1270	µg/kg	SW846 8260C
tert-Butylbenzene	1170	J, D	1270	µg/kg	SW846 8260C
Toluene	3440	D	1270	µg/kg	SW846 8260C
1-Methylnaphthalene	1270		73.1	µg/kg	SW846 8270D
2-Methylnaphthalene	3380		73.1	µg/kg	SW846 8270D
Naphthalene	1500		73.1	µg/kg	SW846 8270D

Lab ID: SC41669-12 **Client ID:** SB-12/1-3

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	0.953	J	1.59	mg/kg	SW846 6010C
Barium	137		1.06	mg/kg	SW846 6010C
Chromium	23.4		1.06	mg/kg	SW846 6010C
Lead	8.82		1.59	mg/kg	SW846 6010C
Methylene chloride	2.14	J	10.1	µg/kg	SW846 8260C

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1/3-5 SC41669-01	11054.2	Soil	16-Nov-17 09:34	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 11.88 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 71.8	U, D	µg/kg dry	71.8	36.4	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
67-64-1	Acetone	< 718	U, D	µg/kg dry	718	287	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 71.8	U, D	µg/kg dry	71.8	69.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 71.8	U, D	µg/kg dry	71.8	19.0	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 71.8	U, D	µg/kg dry	71.8	19.2	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 71.8	U, D	µg/kg dry	71.8	36.3	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 71.8	U, D	µg/kg dry	71.8	47.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 71.8	U, D	µg/kg dry	71.8	68.5	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 144	U, D	µg/kg dry	144	64.9	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 144	U, D	µg/kg dry	144	128	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**624**	D	µg/kg dry	71.8	20.5	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**258**	D	µg/kg dry	71.8	13.1	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**58.2**	J, D	µg/kg dry	71.8	16.1	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 144	U, D	µg/kg dry	144	46.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 71.8	U, D	µg/kg dry	71.8	58.8	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 71.8	U, D	µg/kg dry	71.8	22.5	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 144	U, D	µg/kg dry	144	39.9	50	"	"	"	"	"	X
67-66-3	Chloroform	< 71.8	U, D	µg/kg dry	71.8	38.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 144	U, D	µg/kg dry	144	29.7	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 71.8	U, D	µg/kg dry	71.8	17.9	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 71.8	U, D	µg/kg dry	71.8	16.9	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 144	U, D	µg/kg dry	144	104	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 71.8	U, D	µg/kg dry	71.8	48.7	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 71.8	U, D	µg/kg dry	71.8	48.2	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 71.8	U, D	µg/kg dry	71.8	37.4	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	18.7	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	15.6	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	21.3	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 144	U, D	µg/kg dry	144	27.2	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 71.8	U, D	µg/kg dry	71.8	18.8	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 71.8	U, D	µg/kg dry	71.8	25.7	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 71.8	U, D	µg/kg dry	71.8	37.6	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 71.8	U, D	µg/kg dry	71.8	26.7	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 71.8	U, D	µg/kg dry	71.8	38.1	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 71.8	U, D	µg/kg dry	71.8	37.6	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 71.8	U, D	µg/kg dry	71.8	37.2	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 71.8	U, D	µg/kg dry	71.8	33.9	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 71.8	U, D	µg/kg dry	71.8	23.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 71.8	U, D	µg/kg dry	71.8	43.3	50	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
						Initial weight: 11.88 g							
10061-02-6	trans-1,3-Dichloropropene	< 71.8	U, D	µg/kg dry	71.8	37.7	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
100-41-4	Ethylbenzene	**285**	D	µg/kg dry	71.8	10.3	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 71.8	U, D	µg/kg dry	71.8	36.1	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 144	U, D	µg/kg dry	144	88.1	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**277**	D	µg/kg dry	71.8	14.2	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**69.0**	J, D	µg/kg dry	71.8	15.4	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 71.8	U, D	µg/kg dry	71.8	26.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 144	U, D	µg/kg dry	144	36.9	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 144	U, D	µg/kg dry	144	28.5	50	"	"	"	"	"	X
91-20-3	Naphthalene	**1,030**	D	µg/kg dry	71.8	42.7	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**1,070**	D	µg/kg dry	71.8	11.6	50	"	"	"	"	"	X
100-42-5	Styrene	< 71.8	U, D	µg/kg dry	71.8	14.4	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 71.8	U, D	µg/kg dry	71.8	61.1	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 71.8	U, D	µg/kg dry	71.8	60.8	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 71.8	U, D	µg/kg dry	71.8	24.6	50	"	"	"	"	"	X
108-88-3	Toluene	< 71.8	U, D	µg/kg dry	71.8	23.3	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	25.2	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	52.9	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 71.8	U, D	µg/kg dry	71.8	22.6	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 71.8	U, D	µg/kg dry	71.8	23.8	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 71.8	U, D	µg/kg dry	71.8	52.1	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 71.8	U, D	µg/kg dry	71.8	19.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 71.8	U, D	µg/kg dry	71.8	38.7	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 71.8	U, D	µg/kg dry	71.8	53.9	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**511**	D	µg/kg dry	71.8	17.5	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**204**	D	µg/kg dry	71.8	12.4	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 71.8	U, D	µg/kg dry	71.8	24.3	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**92.7**	J, D	µg/kg dry	144	12.9	50	"	"	"	"	"	X
95-47-6	o-Xylene	**32.3**	J, D	µg/kg dry	71.8	20.1	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 144	U, D	µg/kg dry	144	113	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 71.8	U, D	µg/kg dry	71.8	65.1	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 71.8	U, D	µg/kg dry	71.8	24.0	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 71.8	U, D	µg/kg dry	71.8	38.7	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 71.8	U, D	µg/kg dry	71.8	13.4	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 718	U, D	µg/kg dry	718	470	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1440	U, D	µg/kg dry	1440	1250	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 359	U, D	µg/kg dry	359	164	50	"	"	"	"	"	X
64-17-5	Ethanol	< 14400	U, D	µg/kg dry	14400	2680	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*104*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*93*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-1/3-5 SC41669-01	11054.2	Soil	16-Nov-17 09:34	17-Nov-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
						Initial weight: 11.88 g							
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270 Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 71.7	U	µg/kg dry	71.7	35.7	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 71.7	U	µg/kg dry	71.7	35.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 71.7	U	µg/kg dry	71.7	34.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**50.2**	J	µg/kg dry	71.7	37.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**51.6**	J	µg/kg dry	71.7	26.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**39.8**	J	µg/kg dry	71.7	34.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 71.7	U	µg/kg dry	71.7	28.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**45.9**	J	µg/kg dry	71.7	28.1	1	"	"	"	"	"	X
218-01-9	Chrysene	**50.9**	J	µg/kg dry	71.7	35.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.7	U	µg/kg dry	71.7	27.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**68.4**	J	µg/kg dry	71.7	37.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 71.7	U	µg/kg dry	71.7	36.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 71.7	U	µg/kg dry	71.7	25.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**129**		µg/kg dry	71.7	35.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**286**		µg/kg dry	71.7	43.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	**96.7**		µg/kg dry	71.7	33.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 71.7	U	µg/kg dry	71.7	33.4	1	"	"	"	"	"	X
129-00-0	Pyrene	**55.5**	J	µg/kg dry	71.7	40.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*69*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*80*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*75*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.57	U	mg/kg dry	1.57	0.170	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.498**	J	mg/kg dry	1.57	0.199	1	"	"	"	"	"	X
7440-39-3	Barium	**129**		mg/kg dry	1.05	0.124	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.682	R01, U	mg/kg dry	0.682	0.0272	1	"	"	"	"	"	X
7440-47-3	Chromium	**22.2**		mg/kg dry	1.05	0.140	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0309	U	mg/kg dry	0.0309	0.0086	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.78**		mg/kg dry	1.57	0.222	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.57	U	mg/kg dry	1.57	0.300	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.9**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2/13-15 SC41669-02	11054.2	Soil	16-Nov-17 10:20	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 7.71 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.09	U	µg/kg dry	4.09	2.07	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 40.9	U	µg/kg dry	40.9	16.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.09	U	µg/kg dry	4.09	3.93	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.09	U	µg/kg dry	4.09	1.08	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.09	U	µg/kg dry	4.09	1.09	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.09	U	µg/kg dry	4.09	2.07	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.09	U	µg/kg dry	4.09	2.73	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.09	U	µg/kg dry	4.09	3.90	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.18	U	µg/kg dry	8.18	3.69	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 8.18	U	µg/kg dry	8.18	7.31	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.09	U	µg/kg dry	4.09	1.17	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.09	U	µg/kg dry	4.09	0.74	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.09	U	µg/kg dry	4.09	0.92	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.18	U	µg/kg dry	8.18	2.62	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.09	U	µg/kg dry	4.09	3.35	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.09	U	µg/kg dry	4.09	1.28	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.18	U	µg/kg dry	8.18	2.27	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.09	U	µg/kg dry	4.09	2.20	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.18	U	µg/kg dry	8.18	1.69	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.09	U	µg/kg dry	4.09	1.02	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.09	U	µg/kg dry	4.09	0.96	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.18	U	µg/kg dry	8.18	5.91	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.09	U	µg/kg dry	4.09	2.77	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.09	U	µg/kg dry	4.09	2.75	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.09	U	µg/kg dry	4.09	2.13	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.09	U	µg/kg dry	4.09	1.06	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.09	U	µg/kg dry	4.09	0.89	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.09	U	µg/kg dry	4.09	1.21	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.18	U	µg/kg dry	8.18	1.55	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.09	U	µg/kg dry	4.09	1.07	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.09	U	µg/kg dry	4.09	1.46	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.09	U	µg/kg dry	4.09	2.14	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.09	U	µg/kg dry	4.09	1.52	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.09	U	µg/kg dry	4.09	2.17	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.09	U	µg/kg dry	4.09	2.14	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.09	U	µg/kg dry	4.09	2.12	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.09	U	µg/kg dry	4.09	1.93	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.09	U	µg/kg dry	4.09	1.32	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.09	U	µg/kg dry	4.09	2.47	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.09	U	µg/kg dry	4.09	2.15	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2/13-15	11054.2	Soil	16-Nov-17 10:20	17-Nov-17
SC41669-02				

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													
						Initial weight: 7.71 g							
100-41-4	Ethylbenzene	< 4.09	U	µg/kg dry	4.09	0.59	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 4.09	U	µg/kg dry	4.09	2.05	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 8.18	U	µg/kg dry	8.18	5.02	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.09	U	µg/kg dry	4.09	0.81	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.09	U	µg/kg dry	4.09	0.88	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.09	U	µg/kg dry	4.09	1.51	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 8.18	U	µg/kg dry	8.18	2.10	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.18	U	µg/kg dry	8.18	1.62	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.09	U	µg/kg dry	4.09	2.43	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.09	U	µg/kg dry	4.09	0.66	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.09	U	µg/kg dry	4.09	0.82	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.09	U	µg/kg dry	4.09	3.48	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.09	U	µg/kg dry	4.09	3.46	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.09	U	µg/kg dry	4.09	1.40	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.09	U	µg/kg dry	4.09	1.33	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.09	U	µg/kg dry	4.09	1.44	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.09	U	µg/kg dry	4.09	3.02	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.09	U	µg/kg dry	4.09	1.28	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.09	U	µg/kg dry	4.09	1.36	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.09	U	µg/kg dry	4.09	2.97	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.09	U	µg/kg dry	4.09	1.12	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.09	U	µg/kg dry	4.09	2.21	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.09	U	µg/kg dry	4.09	3.07	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.09	U	µg/kg dry	4.09	0.99	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.09	U	µg/kg dry	4.09	0.70	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.09	U	µg/kg dry	4.09	1.38	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.18	U	µg/kg dry	8.18	0.74	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.09	U	µg/kg dry	4.09	1.15	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.18	U	µg/kg dry	8.18	6.45	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.09	U	µg/kg dry	4.09	3.71	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.09	U	µg/kg dry	4.09	1.37	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.09	U	µg/kg dry	4.09	2.21	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.09	U	µg/kg dry	4.09	0.76	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 40.9	U	µg/kg dry	40.9	26.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 81.8	U	µg/kg dry	81.8	71.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 20.5	U	µg/kg dry	20.5	9.34	1	"	"	"	"	"	X
64-17-5	Ethanol	< 818	U	µg/kg dry	818	153	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-2/13-15 SC41669-02	11054.2	Soil	16-Nov-17 10:20	17-Nov-17

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	< 73.4	U	µg/kg dry	73.4	36.5	1	SW846 8270D	17-Nov-17	21-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.4	U	µg/kg dry	73.4	36.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.4	U	µg/kg dry	73.4	35.1	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.4	U	µg/kg dry	73.4	38.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.4	U	µg/kg dry	73.4	27.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.4	U	µg/kg dry	73.4	35.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.4	U	µg/kg dry	73.4	29.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.4	U	µg/kg dry	73.4	28.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.4	U	µg/kg dry	73.4	36.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.4	U	µg/kg dry	73.4	28.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.4	U	µg/kg dry	73.4	38.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.4	U	µg/kg dry	73.4	37.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.4	U	µg/kg dry	73.4	26.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 73.4	U	µg/kg dry	73.4	36.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 73.4	U	µg/kg dry	73.4	44.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.4	U	µg/kg dry	73.4	34.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.4	U	µg/kg dry	73.4	34.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.4	U	µg/kg dry	73.4	40.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*76*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*80*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*78*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.56	U	mg/kg dry	1.56	0.169	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	< 1.56	U	mg/kg dry	1.56	0.198	1	"	"	"	"	"	X
7440-39-3	Barium	**127**		mg/kg dry	1.04	0.123	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.677	R01, U	mg/kg dry	0.677	0.0270	1	"	"	"	"	"	X
7440-47-3	Chromium	**21.5**		mg/kg dry	1.04	0.139	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0310	U	mg/kg dry	0.0310	0.0086	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**3.06**		mg/kg dry	1.56	0.221	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.56	U	mg/kg dry	1.56	0.298	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.7**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3/10-12 SC41669-03	11054.2	Soil	16-Nov-17 10:40	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 12.4 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 70.5	U, D	µg/kg dry	70.5	35.8	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
67-64-1	Acetone	< 705	U, D	µg/kg dry	705	282	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 70.5	U, D	µg/kg dry	70.5	67.8	50	"	"	"	"	"	X
71-43-2	Benzene	< 70.5	U, D	µg/kg dry	70.5	18.7	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 70.5	U, D	µg/kg dry	70.5	18.8	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 70.5	U, D	µg/kg dry	70.5	35.6	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 70.5	U, D	µg/kg dry	70.5	47.1	50	"	"	"	"	"	X
75-25-2	Bromoform	< 70.5	U, D	µg/kg dry	70.5	67.3	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 141	U, D	µg/kg dry	141	63.7	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 141	U, D	µg/kg dry	141	126	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**71.2**	D	µg/kg dry	70.5	20.2	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**58.6**	J, D	µg/kg dry	70.5	12.8	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**55.7**	J, D	µg/kg dry	70.5	15.8	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 141	U, D	µg/kg dry	141	45.1	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 70.5	U, D	µg/kg dry	70.5	57.7	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 70.5	U, D	µg/kg dry	70.5	22.1	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 141	U, D	µg/kg dry	141	39.2	50	"	"	"	"	"	X
67-66-3	Chloroform	< 70.5	U, D	µg/kg dry	70.5	37.9	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 141	U, D	µg/kg dry	141	29.1	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 70.5	U, D	µg/kg dry	70.5	17.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 70.5	U, D	µg/kg dry	70.5	16.6	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 141	U, D	µg/kg dry	141	102	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 70.5	U, D	µg/kg dry	70.5	47.8	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 70.5	U, D	µg/kg dry	70.5	47.3	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 70.5	U, D	µg/kg dry	70.5	36.7	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	18.3	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	15.3	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	20.9	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 141	U, D	µg/kg dry	141	26.7	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 70.5	U, D	µg/kg dry	70.5	18.5	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 70.5	U, D	µg/kg dry	70.5	25.3	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 70.5	U, D	µg/kg dry	70.5	36.9	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 70.5	U, D	µg/kg dry	70.5	26.2	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 70.5	U, D	µg/kg dry	70.5	37.4	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 70.5	U, D	µg/kg dry	70.5	37.0	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 70.5	U, D	µg/kg dry	70.5	36.5	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 70.5	U, D	µg/kg dry	70.5	33.3	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 70.5	U, D	µg/kg dry	70.5	22.7	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 70.5	U, D	µg/kg dry	70.5	42.5	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 70.5	U, D	µg/kg dry	70.5	37.0	50	"	"	"	"	"	X

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: 12.4 g							
100-41-4	Ethylbenzene	**43.0**	J, D	µg/kg dry	70.5	10.2	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
87-68-3	Hexachlorobutadiene	< 70.5	U, D	µg/kg dry	70.5	35.4	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 141	U, D	µg/kg dry	141	86.6	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**35.3**	J, D	µg/kg dry	70.5	13.9	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**49.4**	J, D	µg/kg dry	70.5	15.2	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 70.5	U, D	µg/kg dry	70.5	26.0	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 141	U, D	µg/kg dry	141	36.3	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 141	U, D	µg/kg dry	141	28.0	50	"	"	"	"	"	X
91-20-3	Naphthalene	**162**	D	µg/kg dry	70.5	42.0	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**60.0**	J, D	µg/kg dry	70.5	11.4	50	"	"	"	"	"	X
100-42-5	Styrene	< 70.5	U, D	µg/kg dry	70.5	14.2	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 70.5	U, D	µg/kg dry	70.5	60.0	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 70.5	U, D	µg/kg dry	70.5	59.7	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 70.5	U, D	µg/kg dry	70.5	24.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 70.5	U, D	µg/kg dry	70.5	22.9	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	24.8	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	52.0	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 70.5	U, D	µg/kg dry	70.5	22.2	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 70.5	U, D	µg/kg dry	70.5	23.4	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 70.5	U, D	µg/kg dry	70.5	51.1	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 70.5	U, D	µg/kg dry	70.5	19.3	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 70.5	U, D	µg/kg dry	70.5	38.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 70.5	U, D	µg/kg dry	70.5	52.9	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**133**	D	µg/kg dry	70.5	17.1	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**347**	D	µg/kg dry	70.5	12.1	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 70.5	U, D	µg/kg dry	70.5	23.8	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**55.7**	J, D	µg/kg dry	141	12.7	50	"	"	"	"	"	X
95-47-6	o-Xylene	**655**	D	µg/kg dry	70.5	19.8	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 141	U, D	µg/kg dry	141	111	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 70.5	U, D	µg/kg dry	70.5	63.9	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 70.5	U, D	µg/kg dry	70.5	23.6	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 70.5	U, D	µg/kg dry	70.5	38.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 70.5	U, D	µg/kg dry	70.5	13.1	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 705	U, D	µg/kg dry	705	462	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1410	U, D	µg/kg dry	1410	1230	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 353	U, D	µg/kg dry	353	161	50	"	"	"	"	"	X
64-17-5	Ethanol	< 14100	U, D	µg/kg dry	14100	2630	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*93*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3/10-12	11054.2	Soil	16-Nov-17 10:40	17-Nov-17
SC41669-03				

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	< 362	U, D	µg/kg dry	362	180	5	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 362	U, D	µg/kg dry	362	178	5	"	"	"	"	"	X
120-12-7	Anthracene	< 362	U, D	µg/kg dry	362	173	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 362	U, D	µg/kg dry	362	191	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 362	U, D	µg/kg dry	362	135	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 362	U, D	µg/kg dry	362	175	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 362	U, D	µg/kg dry	362	145	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 362	U, D	µg/kg dry	362	142	5	"	"	"	"	"	X
218-01-9	Chrysene	< 362	U, D	µg/kg dry	362	181	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 362	U, D	µg/kg dry	362	139	5	"	"	"	"	"	X
206-44-0	Fluoranthene	< 362	U, D	µg/kg dry	362	191	5	"	"	"	"	"	X
86-73-7	Fluorene	< 362	U, D	µg/kg dry	362	184	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 362	U, D	µg/kg dry	362	130	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 362	U, D	µg/kg dry	362	178	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 362	U, D	µg/kg dry	362	219	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 362	U, D	µg/kg dry	362	169	5	"	"	"	"	"	X
85-01-8	Phenanthrene	< 362	U, D	µg/kg dry	362	168	5	"	"	"	"	"	X
129-00-0	Pyrene	< 362	U, D	µg/kg dry	362	202	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*80*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*88*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*88*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.63	U	mg/kg dry	1.63	0.176	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.510**	J	mg/kg dry	1.63	0.206	1	"	"	"	"	"	X
7440-39-3	Barium	**126**		mg/kg dry	1.09	0.128	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.706	R01, U	mg/kg dry	0.706	0.0281	1	"	"	"	"	"	X
7440-47-3	Chromium	**24.7**		mg/kg dry	1.09	0.144	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0303	U	mg/kg dry	0.0303	0.0084	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**3.37**		mg/kg dry	1.63	0.230	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.63	U	mg/kg dry	1.63	0.311	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.7**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 16.32 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 549	U, D	µg/kg dry	549	278	500	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
67-64-1	Acetone	< 5490	U, D	µg/kg dry	5490	2190	500	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 549	U, D	µg/kg dry	549	527	500	"	"	"	"	"	X
71-43-2	Benzene	**5,320**	D	µg/kg dry	549	145	500	"	"	"	"	"	X
108-86-1	Bromobenzene	< 549	U, D	µg/kg dry	549	147	500	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 549	U, D	µg/kg dry	549	277	500	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 549	U, D	µg/kg dry	549	366	500	"	"	"	"	"	X
75-25-2	Bromoform	< 549	U, D	µg/kg dry	549	523	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 1100	U, D	µg/kg dry	1100	495	500	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1100	U, D	µg/kg dry	1100	981	500	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**3,390**	D	µg/kg dry	549	157	500	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1,320**	D	µg/kg dry	549	99.9	500	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**444**	J, D	µg/kg dry	549	123	500	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1100	U, D	µg/kg dry	1100	351	500	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 549	U, D	µg/kg dry	549	449	500	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 549	U, D	µg/kg dry	549	172	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 1100	U, D	µg/kg dry	1100	305	500	"	"	"	"	"	X
67-66-3	Chloroform	< 549	U, D	µg/kg dry	549	295	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 1100	U, D	µg/kg dry	1100	227	500	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 549	U, D	µg/kg dry	549	137	500	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 549	U, D	µg/kg dry	549	129	500	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1100	U, D	µg/kg dry	1100	793	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 549	U, D	µg/kg dry	549	372	500	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 549	U, D	µg/kg dry	549	368	500	"	"	"	"	"	X
74-95-3	Dibromomethane	< 549	U, D	µg/kg dry	549	285	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 549	U, D	µg/kg dry	549	143	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 549	U, D	µg/kg dry	549	119	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 549	U, D	µg/kg dry	549	162	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1100	U, D	µg/kg dry	1100	208	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 549	U, D	µg/kg dry	549	144	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 549	U, D	µg/kg dry	549	196	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 549	U, D	µg/kg dry	549	287	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 549	U, D	µg/kg dry	549	204	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 549	U, D	µg/kg dry	549	291	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 549	U, D	µg/kg dry	549	288	500	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 549	U, D	µg/kg dry	549	284	500	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 549	U, D	µg/kg dry	549	259	500	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 549	U, D	µg/kg dry	549	177	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 549	U, D	µg/kg dry	549	331	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 549	U, D	µg/kg dry	549	288	500	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4/2-4 SC41669-04	11054.2	Soil	16-Nov-17 10:52	17-Nov-17

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: 16.32 g						
100-41-4	Ethylbenzene	**20,600**	D	µg/kg dry	549	79.0	500	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
87-68-3	Hexachlorobutadiene	< 549	U, D	µg/kg dry	549	275	500	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 1100	U, D	µg/kg dry	1100	673	500	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**2,500**	D	µg/kg dry	549	108	500	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**927**	D	µg/kg dry	549	118	500	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 549	U, D	µg/kg dry	549	202	500	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1100	U, D	µg/kg dry	1100	282	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1100	U, D	µg/kg dry	1100	218	500	"	"	"	"	"	X
91-20-3	Naphthalene	**9,340**	D	µg/kg dry	549	326	500	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**8,540**	D	µg/kg dry	549	88.9	500	"	"	"	"	"	X
100-42-5	Styrene	**543**	J, D	µg/kg dry	549	110	500	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 549	U, D	µg/kg dry	549	466	500	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 549	U, D	µg/kg dry	549	464	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 549	U, D	µg/kg dry	549	188	500	"	"	"	"	"	X
108-88-3	Toluene	**50,000**	D	µg/kg dry	549	178	500	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 549	U, D	µg/kg dry	549	193	500	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 549	U, D	µg/kg dry	549	404	500	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 549	U, D	µg/kg dry	549	172	500	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 549	U, D	µg/kg dry	549	182	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 549	U, D	µg/kg dry	549	398	500	"	"	"	"	"	X
79-01-6	Trichloroethene	< 549	U, D	µg/kg dry	549	150	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 549	U, D	µg/kg dry	549	296	500	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 549	U, D	µg/kg dry	549	412	500	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**46,700**	D	µg/kg dry	549	133	500	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**13,800**	D	µg/kg dry	549	94.4	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 549	U, D	µg/kg dry	549	185	500	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**69,300**	D, E	µg/kg dry	1100	98.8	500	"	"	"	"	"	X
95-47-6	o-Xylene	**30,100**	D	µg/kg dry	549	154	500	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1100	U, D	µg/kg dry	1100	865	500	"	"	"	"	"	
60-29-7	Ethyl ether	< 549	U, D	µg/kg dry	549	497	500	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 549	U, D	µg/kg dry	549	183	500	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 549	U, D	µg/kg dry	549	296	500	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 549	U, D	µg/kg dry	549	102	500	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 5490	U, D	µg/kg dry	5490	3590	500	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 11000	U, D	µg/kg dry	11000	9530	500	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 2740	U, D	µg/kg dry	2740	1250	500	"	"	"	"	"	X
64-17-5	Ethanol	< 110000	U, D	µg/kg dry	110000	20500	500	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*93*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*93*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4/2-4	11054.2	Soil	16-Nov-17 10:52	17-Nov-17
SC41669-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 16.32 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1100	U, D	µg/kg dry	1100	556	1000	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719678	X
67-64-1	Acetone	< 11000	U, D	µg/kg dry	11000	4390	1000	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1100	U, D	µg/kg dry	1100	1050	1000	"	"	"	"	"	X
71-43-2	Benzene	**4,530**	D	µg/kg dry	1100	291	1000	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1100	U, D	µg/kg dry	1100	293	1000	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1100	U, D	µg/kg dry	1100	554	1000	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1100	U, D	µg/kg dry	1100	732	1000	"	"	"	"	"	X
75-25-2	Bromoform	< 1100	U, D	µg/kg dry	1100	1050	1000	"	"	"	"	"	X
74-83-9	Bromomethane	< 2190	U, D	µg/kg dry	2190	991	1000	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2190	U, D	µg/kg dry	2190	1960	1000	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**3,570**	D	µg/kg dry	1100	314	1000	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**1,660**	D	µg/kg dry	1100	200	1000	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**867**	J, D	µg/kg dry	1100	246	1000	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2190	U, D	µg/kg dry	2190	702	1000	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1100	U, D	µg/kg dry	1100	898	1000	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1100	U, D	µg/kg dry	1100	343	1000	"	"	"	"	"	X
75-00-3	Chloroethane	< 2190	U, D	µg/kg dry	2190	609	1000	"	"	"	"	"	X
67-66-3	Chloroform	< 1100	U, D	µg/kg dry	1100	589	1000	"	"	"	"	"	X
74-87-3	Chloromethane	< 2190	U, D	µg/kg dry	2190	453	1000	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1100	U, D	µg/kg dry	1100	273	1000	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1100	U, D	µg/kg dry	1100	258	1000	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2190	U, D	µg/kg dry	2190	1590	1000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1100	U, D	µg/kg dry	1100	744	1000	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1100	U, D	µg/kg dry	1100	736	1000	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1100	U, D	µg/kg dry	1100	571	1000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1100	U, D	µg/kg dry	1100	285	1000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1100	U, D	µg/kg dry	1100	238	1000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1100	U, D	µg/kg dry	1100	325	1000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2190	U, D	µg/kg dry	2190	416	1000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1100	U, D	µg/kg dry	1100	288	1000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1100	U, D	µg/kg dry	1100	393	1000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1100	U, D	µg/kg dry	1100	574	1000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1100	U, D	µg/kg dry	1100	407	1000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1100	U, D	µg/kg dry	1100	582	1000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1100	U, D	µg/kg dry	1100	575	1000	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1100	U, D	µg/kg dry	1100	568	1000	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1100	U, D	µg/kg dry	1100	518	1000	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1100	U, D	µg/kg dry	1100	353	1000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1100	U, D	µg/kg dry	1100	662	1000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1100	U, D	µg/kg dry	1100	576	1000	"	"	"	"	"	X
100-41-4	Ethylbenzene	**18,800**	D	µg/kg dry	1100	158	1000	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1100	U, D	µg/kg dry	1100	551	1000	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
						Initial weight: 16.32 g							
591-78-6	2-Hexanone (MBK)	< 2190	U, D	µg/kg dry	2190	1350	1000	SW846 8260C	22-Nov-17	22-Nov-17	MP	1719678	X
98-82-8	Isopropylbenzene	**2,430**	D	µg/kg dry	1100	216	1000	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**1,170**	D	µg/kg dry	1100	236	1000	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1100	U, D	µg/kg dry	1100	404	1000	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2190	U, D	µg/kg dry	2190	564	1000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2190	U, D	µg/kg dry	2190	436	1000	"	"	"	"	"	X
91-20-3	Naphthalene	**7,350**	D	µg/kg dry	1100	653	1000	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**7,960**	D	µg/kg dry	1100	178	1000	"	"	"	"	"	X
100-42-5	Styrene	**834**	J, D	µg/kg dry	1100	221	1000	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1100	U, D	µg/kg dry	1100	933	1000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1100	U, D	µg/kg dry	1100	928	1000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1100	U, D	µg/kg dry	1100	375	1000	"	"	"	"	"	X
108-88-3	Toluene	**45,300**	D	µg/kg dry	1100	356	1000	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1100	U, D	µg/kg dry	1100	385	1000	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1100	U, D	µg/kg dry	1100	809	1000	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1100	U, D	µg/kg dry	1100	345	1000	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1100	U, D	µg/kg dry	1100	364	1000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1100	U, D	µg/kg dry	1100	796	1000	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1100	U, D	µg/kg dry	1100	300	1000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1100	U, D	µg/kg dry	1100	592	1000	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1100	U, D	µg/kg dry	1100	823	1000	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**43,300**	D	µg/kg dry	1100	267	1000	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**12,600**	D	µg/kg dry	1100	189	1000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1100	U, D	µg/kg dry	1100	371	1000	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**66,600**	D	µg/kg dry	2190	198	1000	"	"	"	"	"	X
95-47-6	o-Xylene	**26,600**	D	µg/kg dry	1100	307	1000	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2190	U, D	µg/kg dry	2190	1730	1000	"	"	"	"	"	
60-29-7	Ethyl ether	< 1100	U, D	µg/kg dry	1100	994	1000	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1100	U, D	µg/kg dry	1100	367	1000	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1100	U, D	µg/kg dry	1100	592	1000	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1100	U, D	µg/kg dry	1100	204	1000	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 11000	U, D	µg/kg dry	11000	7180	1000	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 21900	U, D	µg/kg dry	21900	19100	1000	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5490	U, D	µg/kg dry	5490	2500	1000	"	"	"	"	"	X
64-17-5	Ethanol	< 219000	U, D	µg/kg dry	219000	40900	1000	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*101*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*91*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*94*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4/2-4	11054.2	Soil	16-Nov-17 10:52	17-Nov-17
SC41669-04				

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													
Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 72.6	U	µg/kg dry	72.6	36.1	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 72.6	U	µg/kg dry	72.6	35.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.6	U	µg/kg dry	72.6	34.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 72.6	U	µg/kg dry	72.6	38.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 72.6	U	µg/kg dry	72.6	27.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 72.6	U	µg/kg dry	72.6	35.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 72.6	U	µg/kg dry	72.6	29.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 72.6	U	µg/kg dry	72.6	28.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 72.6	U	µg/kg dry	72.6	36.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.6	U	µg/kg dry	72.6	27.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 72.6	U	µg/kg dry	72.6	38.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.6	U	µg/kg dry	72.6	36.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 72.6	U	µg/kg dry	72.6	26.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**1,010**		µg/kg dry	72.6	35.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**2,680**		µg/kg dry	72.6	43.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	**1,070**		µg/kg dry	72.6	33.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 72.6	U	µg/kg dry	72.6	33.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 72.6	U	µg/kg dry	72.6	40.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*74*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*84*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*82*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.52	U	mg/kg dry	1.52	0.164	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.390**	J	mg/kg dry	1.52	0.193	1	"	"	"	"	"	X
7440-39-3	Barium	**149**		mg/kg dry	1.01	0.120	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.659	R01, U	mg/kg dry	0.659	0.0263	1	"	"	"	"	"	X
7440-47-3	Chromium	**19.3**		mg/kg dry	1.01	0.135	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0327	U	mg/kg dry	0.0327	0.0091	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**7.04**		mg/kg dry	1.52	0.215	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.52	U	mg/kg dry	1.52	0.290	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-5/2-4	11054.2	Soil	16-Nov-17 11:02	17-Nov-17
SC41669-05				

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 16.44 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 55.2	U, D	µg/kg dry	55.2	28.0	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
67-64-1	Acetone	< 552	U, D	µg/kg dry	552	221	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 55.2	U, D	µg/kg dry	55.2	53.1	50	"	"	"	"	"	X
71-43-2	Benzene	**142**	D	µg/kg dry	55.2	14.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 55.2	U, D	µg/kg dry	55.2	14.7	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 55.2	U, D	µg/kg dry	55.2	27.9	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 55.2	U, D	µg/kg dry	55.2	36.8	50	"	"	"	"	"	X
75-25-2	Bromoform	< 55.2	U, D	µg/kg dry	55.2	52.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 110	U, D	µg/kg dry	110	49.9	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 110	U, D	µg/kg dry	110	98.7	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**89.4**	D	µg/kg dry	55.2	15.8	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**55.2**	D	µg/kg dry	55.2	10.0	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**42.0**	J, D	µg/kg dry	55.2	12.4	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 110	U, D	µg/kg dry	110	35.3	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 55.2	U, D	µg/kg dry	55.2	45.2	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 55.2	U, D	µg/kg dry	55.2	17.3	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 110	U, D	µg/kg dry	110	30.6	50	"	"	"	"	"	X
67-66-3	Chloroform	< 55.2	U, D	µg/kg dry	55.2	29.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 110	U, D	µg/kg dry	110	22.8	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 55.2	U, D	µg/kg dry	55.2	13.7	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 55.2	U, D	µg/kg dry	55.2	13.0	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 110	U, D	µg/kg dry	110	79.8	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 55.2	U, D	µg/kg dry	55.2	37.4	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 55.2	U, D	µg/kg dry	55.2	37.0	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 55.2	U, D	µg/kg dry	55.2	28.7	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	14.4	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	12.0	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	16.3	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 110	U, D	µg/kg dry	110	20.9	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 55.2	U, D	µg/kg dry	55.2	14.5	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 55.2	U, D	µg/kg dry	55.2	19.8	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 55.2	U, D	µg/kg dry	55.2	28.9	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 55.2	U, D	µg/kg dry	55.2	20.5	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 55.2	U, D	µg/kg dry	55.2	29.3	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 55.2	U, D	µg/kg dry	55.2	28.9	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 55.2	U, D	µg/kg dry	55.2	28.6	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 55.2	U, D	µg/kg dry	55.2	26.1	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 55.2	U, D	µg/kg dry	55.2	17.8	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 55.2	U, D	µg/kg dry	55.2	33.3	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 55.2	U, D	µg/kg dry	55.2	29.0	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-5/2-4 SC41669-05	11054.2	Soil	16-Nov-17 11:02	17-Nov-17

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: 16.44 g						
100-41-4	Ethylbenzene	**324**	D	µg/kg dry	55.2	7.95	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
87-68-3	Hexachlorobutadiene	< 55.2	U, D	µg/kg dry	55.2	27.7	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 110	U, D	µg/kg dry	110	67.7	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**43.1**	J, D	µg/kg dry	55.2	10.9	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**38.6**	J, D	µg/kg dry	55.2	11.9	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 55.2	U, D	µg/kg dry	55.2	20.3	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 110	U, D	µg/kg dry	110	28.4	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 110	U, D	µg/kg dry	110	21.9	50	"	"	"	"	"	X
91-20-3	Naphthalene	**411**	D	µg/kg dry	55.2	32.9	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**125**	D	µg/kg dry	55.2	8.94	50	"	"	"	"	"	X
100-42-5	Styrene	< 55.2	U, D	µg/kg dry	55.2	11.1	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 55.2	U, D	µg/kg dry	55.2	46.9	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 55.2	U, D	µg/kg dry	55.2	46.7	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 55.2	U, D	µg/kg dry	55.2	18.9	50	"	"	"	"	"	X
108-88-3	Toluene	**149**	D	µg/kg dry	55.2	17.9	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	19.4	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	40.7	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 55.2	U, D	µg/kg dry	55.2	17.3	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 55.2	U, D	µg/kg dry	55.2	18.3	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 55.2	U, D	µg/kg dry	55.2	40.0	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 55.2	U, D	µg/kg dry	55.2	15.1	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 55.2	U, D	µg/kg dry	55.2	29.8	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 55.2	U, D	µg/kg dry	55.2	41.4	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**936**	D	µg/kg dry	55.2	13.4	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**278**	D	µg/kg dry	55.2	9.50	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 55.2	U, D	µg/kg dry	55.2	18.7	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**1,040**	D	µg/kg dry	110	9.94	50	"	"	"	"	"	X
95-47-6	o-Xylene	**306**	D	µg/kg dry	55.2	15.5	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 110	U, D	µg/kg dry	110	87.0	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 55.2	U, D	µg/kg dry	55.2	50.0	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 55.2	U, D	µg/kg dry	55.2	18.4	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 55.2	U, D	µg/kg dry	55.2	29.8	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 55.2	U, D	µg/kg dry	55.2	10.3	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 552	U, D	µg/kg dry	552	361	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1100	U, D	µg/kg dry	1100	959	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 276	U, D	µg/kg dry	276	126	50	"	"	"	"	"	X
64-17-5	Ethanol	< 11000	U, D	µg/kg dry	11000	2060	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*105*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*93*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-5/2-4	11054.2	Soil	16-Nov-17 11:02	17-Nov-17
SC41669-05				

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	< 73.2	U	µg/kg dry	73.2	36.4	1	SW846 8270D	17-Nov-17	21-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.2	U	µg/kg dry	73.2	36.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.2	U	µg/kg dry	73.2	35.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.2	U	µg/kg dry	73.2	38.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.2	U	µg/kg dry	73.2	27.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.2	U	µg/kg dry	73.2	35.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.2	U	µg/kg dry	73.2	29.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.2	U	µg/kg dry	73.2	28.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.2	U	µg/kg dry	73.2	36.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.2	U	µg/kg dry	73.2	28.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.2	U	µg/kg dry	73.2	38.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.2	U	µg/kg dry	73.2	37.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.2	U	µg/kg dry	73.2	26.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 73.2	U	µg/kg dry	73.2	36.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**67.0**	J	µg/kg dry	73.2	44.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.2	U	µg/kg dry	73.2	34.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.2	U	µg/kg dry	73.2	34.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.2	U	µg/kg dry	73.2	40.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*69*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*62*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.65	U	mg/kg dry	1.65	0.178	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.456**	J	mg/kg dry	1.65	0.209	1	"	"	"	"	"	X
7440-39-3	Barium	**161**		mg/kg dry	1.10	0.130	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.715	R01, U	mg/kg dry	0.715	0.0285	1	"	"	"	"	"	X
7440-47-3	Chromium	**23.6**		mg/kg dry	1.10	0.146	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0323	U	mg/kg dry	0.0323	0.0090	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.01**		mg/kg dry	1.65	0.233	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.65	U	mg/kg dry	1.65	0.315	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.9**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6/7-9 SC41669-06	11054.2	Soil	16-Nov-17 11:41	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 5.28 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.64	U	µg/kg dry	5.64	2.86	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 56.4	U	µg/kg dry	56.4	22.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.64	U	µg/kg dry	5.64	5.42	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.64	U	µg/kg dry	5.64	1.50	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.64	U	µg/kg dry	5.64	1.51	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.64	U	µg/kg dry	5.64	2.85	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.64	U	µg/kg dry	5.64	3.77	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.64	U	µg/kg dry	5.64	5.39	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.3	U	µg/kg dry	11.3	5.10	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 11.3	U	µg/kg dry	11.3	10.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.64	U	µg/kg dry	5.64	1.61	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.64	U	µg/kg dry	5.64	1.03	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.64	U	µg/kg dry	5.64	1.26	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 11.3	U	µg/kg dry	11.3	3.61	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.64	U	µg/kg dry	5.64	4.62	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.64	U	µg/kg dry	5.64	1.77	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 11.3	U	µg/kg dry	11.3	3.13	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.64	U	µg/kg dry	5.64	3.03	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.3	U	µg/kg dry	11.3	2.33	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.64	U	µg/kg dry	5.64	1.41	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.64	U	µg/kg dry	5.64	1.33	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.3	U	µg/kg dry	11.3	8.16	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.64	U	µg/kg dry	5.64	3.83	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.64	U	µg/kg dry	5.64	3.79	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.64	U	µg/kg dry	5.64	2.94	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.64	U	µg/kg dry	5.64	1.47	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.64	U	µg/kg dry	5.64	1.22	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.64	U	µg/kg dry	5.64	1.67	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 11.3	U	µg/kg dry	11.3	2.14	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.64	U	µg/kg dry	5.64	1.48	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.64	U	µg/kg dry	5.64	2.02	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.64	U	µg/kg dry	5.64	2.95	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.64	U	µg/kg dry	5.64	2.09	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.64	U	µg/kg dry	5.64	2.99	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.64	U	µg/kg dry	5.64	2.96	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.64	U	µg/kg dry	5.64	2.92	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.64	U	µg/kg dry	5.64	2.66	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.64	U	µg/kg dry	5.64	1.82	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.64	U	µg/kg dry	5.64	3.40	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.64	U	µg/kg dry	5.64	2.96	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6/7-9	11054.2	Soil	16-Nov-17 11:41	17-Nov-17
SC41669-06				

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													
						Initial weight: 5.28 g							
100-41-4	Ethylbenzene	< 5.64	U	µg/kg dry	5.64	0.81	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 5.64	U	µg/kg dry	5.64	2.83	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 11.3	U	µg/kg dry	11.3	6.93	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.64	U	µg/kg dry	5.64	1.11	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.64	U	µg/kg dry	5.64	1.21	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.64	U	µg/kg dry	5.64	2.08	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 11.3	U	µg/kg dry	11.3	2.90	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 11.3	U	µg/kg dry	11.3	2.24	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.64	U	µg/kg dry	5.64	3.36	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.64	U	µg/kg dry	5.64	0.91	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.64	U	µg/kg dry	5.64	1.13	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.64	U	µg/kg dry	5.64	4.80	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.64	U	µg/kg dry	5.64	4.78	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.64	U	µg/kg dry	5.64	1.93	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.64	U	µg/kg dry	5.64	1.83	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.64	U	µg/kg dry	5.64	1.98	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.64	U	µg/kg dry	5.64	4.16	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.64	U	µg/kg dry	5.64	1.77	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.64	U	µg/kg dry	5.64	1.87	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.64	U	µg/kg dry	5.64	4.09	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.64	U	µg/kg dry	5.64	1.54	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.64	U	µg/kg dry	5.64	3.04	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.64	U	µg/kg dry	5.64	4.23	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.64	U	µg/kg dry	5.64	1.37	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.64	U	µg/kg dry	5.64	0.97	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.64	U	µg/kg dry	5.64	1.91	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 11.3	U	µg/kg dry	11.3	1.02	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.64	U	µg/kg dry	5.64	1.58	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 11.3	U	µg/kg dry	11.3	8.90	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.64	U	µg/kg dry	5.64	5.11	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.64	U	µg/kg dry	5.64	1.89	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.64	U	µg/kg dry	5.64	3.04	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.64	U	µg/kg dry	5.64	1.05	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 56.4	U	µg/kg dry	56.4	36.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 113	U	µg/kg dry	113	98.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 28.2	U	µg/kg dry	28.2	12.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1130	U	µg/kg dry	1130	211	1	"	"	"	"	"	
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*	*120*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6/7-9 SC41669-06	11054.2	Soil	16-Nov-17 11:41	17-Nov-17

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	< 72.6	U	µg/kg dry	72.6	36.2	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 72.6	U	µg/kg dry	72.6	35.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.6	U	µg/kg dry	72.6	34.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 72.6	U	µg/kg dry	72.6	38.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 72.6	U	µg/kg dry	72.6	27.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 72.6	U	µg/kg dry	72.6	35.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 72.6	U	µg/kg dry	72.6	29.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 72.6	U	µg/kg dry	72.6	28.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 72.6	U	µg/kg dry	72.6	36.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.6	U	µg/kg dry	72.6	27.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 72.6	U	µg/kg dry	72.6	38.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.6	U	µg/kg dry	72.6	36.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 72.6	U	µg/kg dry	72.6	26.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 72.6	U	µg/kg dry	72.6	35.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 72.6	U	µg/kg dry	72.6	43.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 72.6	U	µg/kg dry	72.6	33.9	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 72.6	U	µg/kg dry	72.6	33.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 72.6	U	µg/kg dry	72.6	40.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*56*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*66*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*61*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.54	U	mg/kg dry	1.54	0.166	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.595**	J	mg/kg dry	1.54	0.195	1	"	"	"	"	"	X
7440-39-3	Barium	**151**		mg/kg dry	1.03	0.121	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.667	R01, U	mg/kg dry	0.667	0.0266	1	"	"	"	"	"	X
7440-47-3	Chromium	**22.5**		mg/kg dry	1.03	0.137	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0308	U	mg/kg dry	0.0308	0.0086	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.20**		mg/kg dry	1.54	0.218	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.54	U	mg/kg dry	1.54	0.294	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-7/13-15 SC41669-07	11054.2	Soil	16-Nov-17 12:29	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 6.64 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.73	U	µg/kg dry	4.73	2.40	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 47.3	U	µg/kg dry	47.3	18.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.73	U	µg/kg dry	4.73	4.55	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.73	U	µg/kg dry	4.73	1.25	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.73	U	µg/kg dry	4.73	1.26	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.73	U	µg/kg dry	4.73	2.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.73	U	µg/kg dry	4.73	3.16	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.73	U	µg/kg dry	4.73	4.51	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.46	U	µg/kg dry	9.46	4.27	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 9.46	U	µg/kg dry	9.46	8.46	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.73	U	µg/kg dry	4.73	1.35	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.73	U	µg/kg dry	4.73	0.86	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.73	U	µg/kg dry	4.73	1.06	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.46	U	µg/kg dry	9.46	3.03	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.73	U	µg/kg dry	4.73	3.87	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.73	U	µg/kg dry	4.73	1.48	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.46	U	µg/kg dry	9.46	2.63	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.73	U	µg/kg dry	4.73	2.54	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.46	U	µg/kg dry	9.46	1.95	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.73	U	µg/kg dry	4.73	1.18	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.73	U	µg/kg dry	4.73	1.11	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.46	U	µg/kg dry	9.46	6.84	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.73	U	µg/kg dry	4.73	3.21	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.73	U	µg/kg dry	4.73	3.17	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.73	U	µg/kg dry	4.73	2.46	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.23	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.03	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.40	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.46	U	µg/kg dry	9.46	1.79	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.73	U	µg/kg dry	4.73	1.24	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.73	U	µg/kg dry	4.73	1.69	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.73	U	µg/kg dry	4.73	2.47	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.73	U	µg/kg dry	4.73	1.75	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.73	U	µg/kg dry	4.73	2.51	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.48	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.45	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.23	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.73	U	µg/kg dry	4.73	1.52	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.73	U	µg/kg dry	4.73	2.85	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.73	U	µg/kg dry	4.73	2.48	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-7/13-15	11054.2	Soil	16-Nov-17 12:29	17-Nov-17
SC41669-07				

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													
						Initial weight: 6.64 g							
100-41-4	Ethylbenzene	< 4.73	U	µg/kg dry	4.73	0.68	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 4.73	U	µg/kg dry	4.73	2.37	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.46	U	µg/kg dry	9.46	5.80	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.73	U	µg/kg dry	4.73	0.93	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.73	U	µg/kg dry	4.73	1.02	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	2.26	J	µg/kg dry	4.73	1.74	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.46	U	µg/kg dry	9.46	2.43	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.46	U	µg/kg dry	9.46	1.88	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.73	U	µg/kg dry	4.73	2.81	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.73	U	µg/kg dry	4.73	0.77	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.73	U	µg/kg dry	4.73	0.95	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.73	U	µg/kg dry	4.73	4.02	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.73	U	µg/kg dry	4.73	4.00	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.73	U	µg/kg dry	4.73	1.62	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.73	U	µg/kg dry	4.73	1.53	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.66	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	3.49	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.49	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.73	U	µg/kg dry	4.73	1.57	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.73	U	µg/kg dry	4.73	3.43	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.73	U	µg/kg dry	4.73	1.29	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.73	U	µg/kg dry	4.73	2.55	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.73	U	µg/kg dry	4.73	3.55	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.73	U	µg/kg dry	4.73	1.15	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.73	U	µg/kg dry	4.73	0.81	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.73	U	µg/kg dry	4.73	1.60	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.46	U	µg/kg dry	9.46	0.85	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.73	U	µg/kg dry	4.73	1.32	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.46	U	µg/kg dry	9.46	7.46	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.73	U	µg/kg dry	4.73	4.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.73	U	µg/kg dry	4.73	1.58	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.73	U	µg/kg dry	4.73	2.55	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.73	U	µg/kg dry	4.73	0.88	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 47.3	U	µg/kg dry	47.3	31.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 94.6	U	µg/kg dry	94.6	82.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 23.7	U	µg/kg dry	23.7	10.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 946	U	µg/kg dry	946	176	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-7/13-15 SC41669-07	11054.2	Soil	16-Nov-17 12:29	17-Nov-17

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	< 73.9	U	µg/kg dry	73.9	36.8	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.9	U	µg/kg dry	73.9	36.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.9	U	µg/kg dry	73.9	35.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.9	U	µg/kg dry	73.9	39.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.9	U	µg/kg dry	73.9	27.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.9	U	µg/kg dry	73.9	35.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.9	U	µg/kg dry	73.9	29.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.9	U	µg/kg dry	73.9	28.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.9	U	µg/kg dry	73.9	36.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.9	U	µg/kg dry	73.9	28.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.9	U	µg/kg dry	73.9	39.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.9	U	µg/kg dry	73.9	37.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.9	U	µg/kg dry	73.9	26.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 73.9	U	µg/kg dry	73.9	36.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 73.9	U	µg/kg dry	73.9	44.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.9	U	µg/kg dry	73.9	34.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.9	U	µg/kg dry	73.9	34.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.9	U	µg/kg dry	73.9	41.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*52*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*61*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*55*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.60	U	mg/kg dry	1.60	0.173	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.529**	J	mg/kg dry	1.60	0.203	1	"	"	"	"	"	X
7440-39-3	Barium	**166**		mg/kg dry	1.07	0.126	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.694	R01, U	mg/kg dry	0.694	0.0277	1	"	"	"	"	"	X
7440-47-3	Chromium	**24.4**		mg/kg dry	1.07	0.142	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0323	U	mg/kg dry	0.0323	0.0090	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.96**		mg/kg dry	1.60	0.226	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.60	U	mg/kg dry	1.60	0.306	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.1**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8/2-4	11054.2	Soil	16-Nov-17 12:43	17-Nov-17
SC41669-08				

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260			R05										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 15.11 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 55.0	U, D	µg/kg dry	55.0	27.9	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
67-64-1	Acetone	< 550	U, D	µg/kg dry	550	220	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 55.0	U, D	µg/kg dry	55.0	52.8	50	"	"	"	"	"	X
71-43-2	Benzene	< 55.0	U, D	µg/kg dry	55.0	14.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 55.0	U, D	µg/kg dry	55.0	14.7	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 55.0	U, D	µg/kg dry	55.0	27.8	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 55.0	U, D	µg/kg dry	55.0	36.7	50	"	"	"	"	"	X
75-25-2	Bromoform	< 55.0	U, D	µg/kg dry	55.0	52.5	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 110	U, D	µg/kg dry	110	49.7	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 110	U, D	µg/kg dry	110	98.3	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**57.2**	D	µg/kg dry	55.0	15.7	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**44.5**	J, D	µg/kg dry	55.0	10.0	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**44.5**	J, D	µg/kg dry	55.0	12.3	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 110	U, D	µg/kg dry	110	35.2	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 55.0	U, D	µg/kg dry	55.0	45.0	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 55.0	U, D	µg/kg dry	55.0	17.2	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 110	U, D	µg/kg dry	110	30.5	50	"	"	"	"	"	X
67-66-3	Chloroform	< 55.0	U, D	µg/kg dry	55.0	29.5	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 110	U, D	µg/kg dry	110	22.7	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 55.0	U, D	µg/kg dry	55.0	13.7	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 55.0	U, D	µg/kg dry	55.0	12.9	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 110	U, D	µg/kg dry	110	79.5	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 55.0	U, D	µg/kg dry	55.0	37.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 55.0	U, D	µg/kg dry	55.0	36.9	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 55.0	U, D	µg/kg dry	55.0	28.6	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	14.3	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	11.9	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	16.3	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 110	U, D	µg/kg dry	110	20.8	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 55.0	U, D	µg/kg dry	55.0	14.4	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 55.0	U, D	µg/kg dry	55.0	19.7	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 55.0	U, D	µg/kg dry	55.0	28.8	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 55.0	U, D	µg/kg dry	55.0	20.4	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 55.0	U, D	µg/kg dry	55.0	29.1	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 55.0	U, D	µg/kg dry	55.0	28.8	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 55.0	U, D	µg/kg dry	55.0	28.5	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 55.0	U, D	µg/kg dry	55.0	26.0	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 55.0	U, D	µg/kg dry	55.0	17.7	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 55.0	U, D	µg/kg dry	55.0	33.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 55.0	U, D	µg/kg dry	55.0	28.9	50	"	"	"	"	"	X

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			R05										
						Initial weight: 15.11 g							
100-41-4	Ethylbenzene	**30.8**	J, D	µg/kg dry	55.0	7.92	50	SW846 8260C	21-Nov-17	21-Nov-17	MP	1719572	X
87-68-3	Hexachlorobutadiene	< 55.0	U, D	µg/kg dry	55.0	27.6	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 110	U, D	µg/kg dry	110	67.5	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**27.5**	J, D	µg/kg dry	55.0	10.8	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**35.7**	J, D	µg/kg dry	55.0	11.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 55.0	U, D	µg/kg dry	55.0	20.2	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 110	U, D	µg/kg dry	110	28.3	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 110	U, D	µg/kg dry	110	21.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	**79.2**	D	µg/kg dry	55.0	32.7	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**48.9**	J, D	µg/kg dry	55.0	8.91	50	"	"	"	"	"	X
100-42-5	Styrene	< 55.0	U, D	µg/kg dry	55.0	11.1	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 55.0	U, D	µg/kg dry	55.0	46.7	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 55.0	U, D	µg/kg dry	55.0	46.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 55.0	U, D	µg/kg dry	55.0	18.8	50	"	"	"	"	"	X
108-88-3	Toluene	< 55.0	U, D	µg/kg dry	55.0	17.8	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	19.3	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	40.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 55.0	U, D	µg/kg dry	55.0	17.3	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 55.0	U, D	µg/kg dry	55.0	18.3	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 55.0	U, D	µg/kg dry	55.0	39.9	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 55.0	U, D	µg/kg dry	55.0	15.0	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 55.0	U, D	µg/kg dry	55.0	29.6	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 55.0	U, D	µg/kg dry	55.0	41.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**153**	D	µg/kg dry	55.0	13.4	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**67.1**	D	µg/kg dry	55.0	9.46	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 55.0	U, D	µg/kg dry	55.0	18.6	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**125**	D	µg/kg dry	110	9.90	50	"	"	"	"	"	X
95-47-6	o-Xylene	**33.0**	J, D	µg/kg dry	55.0	15.4	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 110	U, D	µg/kg dry	110	86.7	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 55.0	U, D	µg/kg dry	55.0	49.8	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 55.0	U, D	µg/kg dry	55.0	18.4	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 55.0	U, D	µg/kg dry	55.0	29.6	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 55.0	U, D	µg/kg dry	55.0	10.2	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 550	U, D	µg/kg dry	550	360	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1100	U, D	µg/kg dry	1100	955	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 275	U, D	µg/kg dry	275	125	50	"	"	"	"	"	X
64-17-5	Ethanol	< 11000	U, D	µg/kg dry	11000	2050	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*104*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*92*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8/2-4 SC41669-08	11054.2	Soil	16-Nov-17 12:43	17-Nov-17

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			R01										
83-32-9	Acenaphthene	< 3480	U, D	µg/kg dry	3480	1730	5	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 3480	U, D	µg/kg dry	3480	1710	5	"	"	"	"	"	X
120-12-7	Anthracene	< 3480	U, D	µg/kg dry	3480	1660	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 3480	U, D	µg/kg dry	3480	1830	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 3480	U, D	µg/kg dry	3480	1290	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 3480	U, D	µg/kg dry	3480	1680	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 3480	U, D	µg/kg dry	3480	1400	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 3480	U, D	µg/kg dry	3480	1360	5	"	"	"	"	"	X
218-01-9	Chrysene	< 3480	U, D	µg/kg dry	3480	1740	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3480	U, D	µg/kg dry	3480	1330	5	"	"	"	"	"	X
206-44-0	Fluoranthene	< 3480	U, D	µg/kg dry	3480	1840	5	"	"	"	"	"	X
86-73-7	Fluorene	< 3480	U, D	µg/kg dry	3480	1770	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 3480	U, D	µg/kg dry	3480	1250	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**1,810**	J, D	µg/kg dry	3480	1710	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**3,510**	D	µg/kg dry	3480	2100	5	"	"	"	"	"	X
91-20-3	Naphthalene	**2,520**	J, D	µg/kg dry	3480	1620	5	"	"	"	"	"	X
85-01-8	Phenanthrene	< 3480	U, D	µg/kg dry	3480	1620	5	"	"	"	"	"	X
129-00-0	Pyrene	< 3480	U, D	µg/kg dry	3480	1940	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*67*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*74*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.51	U	mg/kg dry	1.51	0.163	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**2.79**		mg/kg dry	1.51	0.191	1	"	"	"	"	"	X
7440-39-3	Barium	**67.8**		mg/kg dry	1.00	0.119	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.653	R01, U	mg/kg dry	0.653	0.0260	1	"	"	"	"	"	X
7440-47-3	Chromium	**16.0**		mg/kg dry	1.00	0.134	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.0359**		mg/kg dry	0.0286	0.0079	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**42.1**		mg/kg dry	1.51	0.213	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.51	U	mg/kg dry	1.51	0.287	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**94.9**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9/13-15 SC41669-09	11054.2	Soil	16-Nov-17 13:24	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 3.01 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 9.69	U	µg/kg dry	9.69	4.91	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 96.9	U	µg/kg dry	96.9	38.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 9.69	U	µg/kg dry	9.69	9.31	1	"	"	"	"	"	X
71-43-2	Benzene	< 9.69	U	µg/kg dry	9.69	2.57	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 9.69	U	µg/kg dry	9.69	2.59	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 9.69	U	µg/kg dry	9.69	4.89	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 9.69	U	µg/kg dry	9.69	6.46	1	"	"	"	"	"	X
75-25-2	Bromoform	< 9.69	U	µg/kg dry	9.69	9.24	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 19.4	U	µg/kg dry	19.4	8.75	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.4	U	µg/kg dry	19.4	17.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 9.69	U	µg/kg dry	9.69	2.77	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 9.69	U	µg/kg dry	9.69	1.76	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 9.69	U	µg/kg dry	9.69	2.17	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 19.4	U	µg/kg dry	19.4	6.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 9.69	U	µg/kg dry	9.69	7.92	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 9.69	U	µg/kg dry	9.69	3.03	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 19.4	U	µg/kg dry	19.4	5.38	1	"	"	"	"	"	X
67-66-3	Chloroform	< 9.69	U	µg/kg dry	9.69	5.20	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 19.4	U	µg/kg dry	19.4	4.00	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 9.69	U	µg/kg dry	9.69	2.41	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 9.69	U	µg/kg dry	9.69	2.28	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 19.4	U	µg/kg dry	19.4	14.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 9.69	U	µg/kg dry	9.69	6.57	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 9.69	U	µg/kg dry	9.69	6.50	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 9.69	U	µg/kg dry	9.69	5.04	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 9.69	U	µg/kg dry	9.69	2.52	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 9.69	U	µg/kg dry	9.69	2.10	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 9.69	U	µg/kg dry	9.69	2.87	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 19.4	U	µg/kg dry	19.4	3.67	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 9.69	U	µg/kg dry	9.69	2.54	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 9.69	U	µg/kg dry	9.69	3.47	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 9.69	U	µg/kg dry	9.69	5.07	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 9.69	U	µg/kg dry	9.69	3.59	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 9.69	U	µg/kg dry	9.69	5.13	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 9.69	U	µg/kg dry	9.69	5.08	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 9.69	U	µg/kg dry	9.69	5.02	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 9.69	U	µg/kg dry	9.69	4.57	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 9.69	U	µg/kg dry	9.69	3.12	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 9.69	U	µg/kg dry	9.69	5.84	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 9.69	U	µg/kg dry	9.69	5.08	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9/13-15	11054.2	Soil	16-Nov-17 13:24	17-Nov-17
SC41669-09				

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													
						Initial weight: 3.01 g							
100-41-4	Ethylbenzene	< 9.69	U	µg/kg dry	9.69	1.39	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 9.69	U	µg/kg dry	9.69	4.86	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 19.4	U	µg/kg dry	19.4	11.9	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 9.69	U	µg/kg dry	9.69	1.91	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 9.69	U	µg/kg dry	9.69	2.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	7.09	J	µg/kg dry	9.69	3.56	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 19.4	U	µg/kg dry	19.4	4.98	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 19.4	U	µg/kg dry	19.4	3.85	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 9.69	U	µg/kg dry	9.69	5.76	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 9.69	U	µg/kg dry	9.69	1.57	1	"	"	"	"	"	X
100-42-5	Styrene	< 9.69	U	µg/kg dry	9.69	1.95	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 9.69	U	µg/kg dry	9.69	8.23	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 9.69	U	µg/kg dry	9.69	8.19	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 9.69	U	µg/kg dry	9.69	3.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 9.69	U	µg/kg dry	9.69	3.14	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 9.69	U	µg/kg dry	9.69	3.40	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 9.69	U	µg/kg dry	9.69	7.14	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 9.69	U	µg/kg dry	9.69	3.04	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 9.69	U	µg/kg dry	9.69	3.22	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 9.69	U	µg/kg dry	9.69	7.02	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 9.69	U	µg/kg dry	9.69	2.64	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 9.69	U	µg/kg dry	9.69	5.22	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 9.69	U	µg/kg dry	9.69	7.26	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 9.69	U	µg/kg dry	9.69	2.35	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 9.69	U	µg/kg dry	9.69	1.67	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 9.69	U	µg/kg dry	9.69	3.27	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 19.4	U	µg/kg dry	19.4	1.74	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 9.69	U	µg/kg dry	9.69	2.71	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 19.4	U	µg/kg dry	19.4	15.3	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 9.69	U	µg/kg dry	9.69	8.77	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 9.69	U	µg/kg dry	9.69	3.23	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 9.69	U	µg/kg dry	9.69	5.22	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 9.69	U	µg/kg dry	9.69	1.80	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 96.9	U	µg/kg dry	96.9	63.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 194	U	µg/kg dry	194	168	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 48.4	U	µg/kg dry	48.4	22.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1940	U	µg/kg dry	1940	361	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*122*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-9/13-15 SC41669-09	11054.2	Soil	16-Nov-17 13:24	17-Nov-17

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	< 73.2	U	µg/kg dry	73.2	36.5	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.2	U	µg/kg dry	73.2	36.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.2	U	µg/kg dry	73.2	35.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.2	U	µg/kg dry	73.2	38.7	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.2	U	µg/kg dry	73.2	27.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.2	U	µg/kg dry	73.2	35.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.2	U	µg/kg dry	73.2	29.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.2	U	µg/kg dry	73.2	28.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.2	U	µg/kg dry	73.2	36.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.2	U	µg/kg dry	73.2	28.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.2	U	µg/kg dry	73.2	38.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.2	U	µg/kg dry	73.2	37.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.2	U	µg/kg dry	73.2	26.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 73.2	U	µg/kg dry	73.2	36.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 73.2	U	µg/kg dry	73.2	44.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.2	U	µg/kg dry	73.2	34.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.2	U	µg/kg dry	73.2	34.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.2	U	µg/kg dry	73.2	40.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*47*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*72*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*42*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.51	U	mg/kg dry	1.51	0.163	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.327**	J	mg/kg dry	1.51	0.191	1	"	"	"	"	"	X
7440-39-3	Barium	**163**		mg/kg dry	1.01	0.119	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.655	R01, U	mg/kg dry	0.655	0.0261	1	"	"	"	"	"	X
7440-47-3	Chromium	**24.3**		mg/kg dry	1.01	0.134	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0309	U	mg/kg dry	0.0309	0.0086	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.14**		mg/kg dry	1.51	0.214	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.51	U	mg/kg dry	1.51	0.288	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.6**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10/10-12 SC41669-10	11054.2	Soil	17-Nov-17 08:50	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 6.42 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.73	U	µg/kg dry	4.73	2.40	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 47.3	U	µg/kg dry	47.3	18.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.73	U	µg/kg dry	4.73	4.55	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.73	U	µg/kg dry	4.73	1.25	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.73	U	µg/kg dry	4.73	1.26	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.73	U	µg/kg dry	4.73	2.39	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.73	U	µg/kg dry	4.73	3.16	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.73	U	µg/kg dry	4.73	4.52	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.47	U	µg/kg dry	9.47	4.28	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 9.47	U	µg/kg dry	9.47	8.47	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.73	U	µg/kg dry	4.73	1.35	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.73	U	µg/kg dry	4.73	0.86	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.73	U	µg/kg dry	4.73	1.06	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.47	U	µg/kg dry	9.47	3.03	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.73	U	µg/kg dry	4.73	3.87	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.73	U	µg/kg dry	4.73	1.48	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.47	U	µg/kg dry	9.47	2.63	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.73	U	µg/kg dry	4.73	2.54	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.47	U	µg/kg dry	9.47	1.96	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.73	U	µg/kg dry	4.73	1.18	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.73	U	µg/kg dry	4.73	1.11	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.47	U	µg/kg dry	9.47	6.84	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.73	U	µg/kg dry	4.73	3.21	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.73	U	µg/kg dry	4.73	3.18	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.73	U	µg/kg dry	4.73	2.46	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.23	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.03	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.40	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.47	U	µg/kg dry	9.47	1.79	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.73	U	µg/kg dry	4.73	1.24	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.73	U	µg/kg dry	4.73	1.70	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.73	U	µg/kg dry	4.73	2.48	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.73	U	µg/kg dry	4.73	1.76	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.73	U	µg/kg dry	4.73	2.51	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.48	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.45	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.73	U	µg/kg dry	4.73	2.23	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.73	U	µg/kg dry	4.73	1.52	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.73	U	µg/kg dry	4.73	2.86	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.73	U	µg/kg dry	4.73	2.49	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10/10-12 SC41669-10	11054.2	Soil	17-Nov-17 08:50	17-Nov-17

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 6.42 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 4.73	U	µg/kg dry	4.73	0.68	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 4.73	U	µg/kg dry	4.73	2.38	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 9.47	U	µg/kg dry	9.47	5.81	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.73	U	µg/kg dry	4.73	0.93	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.73	U	µg/kg dry	4.73	1.02	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.73	U	µg/kg dry	4.73	1.74	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 9.47	U	µg/kg dry	9.47	2.43	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.47	U	µg/kg dry	9.47	1.88	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.73	U	µg/kg dry	4.73	2.82	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.73	U	µg/kg dry	4.73	0.77	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.73	U	µg/kg dry	4.73	0.95	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.73	U	µg/kg dry	4.73	4.02	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.73	U	µg/kg dry	4.73	4.01	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.73	U	µg/kg dry	4.73	1.62	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.73	U	µg/kg dry	4.73	1.53	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.66	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	3.49	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.73	U	µg/kg dry	4.73	1.49	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.73	U	µg/kg dry	4.73	1.57	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.73	U	µg/kg dry	4.73	3.43	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.73	U	µg/kg dry	4.73	1.29	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.73	U	µg/kg dry	4.73	2.55	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.73	U	µg/kg dry	4.73	3.55	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.73	U	µg/kg dry	4.73	1.15	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.73	U	µg/kg dry	4.73	0.81	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.73	U	µg/kg dry	4.73	1.60	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.47	U	µg/kg dry	9.47	0.85	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.73	U	µg/kg dry	4.73	1.33	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.47	U	µg/kg dry	9.47	7.46	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.73	U	µg/kg dry	4.73	4.29	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.73	U	µg/kg dry	4.73	1.58	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.73	U	µg/kg dry	4.73	2.55	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.73	U	µg/kg dry	4.73	0.88	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 47.3	U	µg/kg dry	47.3	31.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 94.7	U	µg/kg dry	94.7	82.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 23.7	U	µg/kg dry	23.7	10.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 947	U	µg/kg dry	947	177	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*118*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10/10-12	11054.2	Soil	17-Nov-17 08:50	17-Nov-17
SC41669-10				

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	< 72.4	U	µg/kg dry	72.4	36.1	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 72.4	U	µg/kg dry	72.4	35.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.4	U	µg/kg dry	72.4	34.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 72.4	U	µg/kg dry	72.4	38.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 72.4	U	µg/kg dry	72.4	27.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 72.4	U	µg/kg dry	72.4	35.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 72.4	U	µg/kg dry	72.4	29.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 72.4	U	µg/kg dry	72.4	28.3	1	"	"	"	"	"	X
218-01-9	Chrysene	< 72.4	U	µg/kg dry	72.4	36.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.4	U	µg/kg dry	72.4	27.8	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 72.4	U	µg/kg dry	72.4	38.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.4	U	µg/kg dry	72.4	36.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 72.4	U	µg/kg dry	72.4	26.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 72.4	U	µg/kg dry	72.4	35.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 72.4	U	µg/kg dry	72.4	43.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 72.4	U	µg/kg dry	72.4	33.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 72.4	U	µg/kg dry	72.4	33.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 72.4	U	µg/kg dry	72.4	40.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*52*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*58*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.56	U	mg/kg dry	1.56	0.168	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.712**	J	mg/kg dry	1.56	0.198	1	"	"	"	"	"	X
7440-39-3	Barium	**133**		mg/kg dry	1.04	0.123	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.676	R01, U	mg/kg dry	0.676	0.0269	1	"	"	"	"	"	X
7440-47-3	Chromium	**23.6**		mg/kg dry	1.04	0.138	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0328	U	mg/kg dry	0.0328	0.0091	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**4.35**		mg/kg dry	1.56	0.220	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.56	U	mg/kg dry	1.56	0.297	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.4**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-11/2-4 SC41669-11	11054.2	Soil	17-Nov-17 08:58	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 14.23 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1270	U, D	µg/kg dry	1270	643	1000	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
67-64-1	Acetone	< 12700	U, D	µg/kg dry	12700	5070	1000	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1270	U, D	µg/kg dry	1270	1220	1000	"	"	"	"	"	X
71-43-2	Benzene	**2,040**	D	µg/kg dry	1270	336	1000	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1270	U, D	µg/kg dry	1270	339	1000	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1270	U, D	µg/kg dry	1270	641	1000	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1270	U, D	µg/kg dry	1270	846	1000	"	"	"	"	"	X
75-25-2	Bromoform	< 1270	U, D	µg/kg dry	1270	1210	1000	"	"	"	"	"	X
74-83-9	Bromomethane	< 2540	U, D	µg/kg dry	2540	1150	1000	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2540	U, D	µg/kg dry	2540	2270	1000	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**5,230**	D	µg/kg dry	1270	363	1000	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**2,250**	D	µg/kg dry	1270	231	1000	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**1,170**	J, D	µg/kg dry	1270	284	1000	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2540	U, D	µg/kg dry	2540	812	1000	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1270	U, D	µg/kg dry	1270	1040	1000	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1270	U, D	µg/kg dry	1270	397	1000	"	"	"	"	"	X
75-00-3	Chloroethane	< 2540	U, D	µg/kg dry	2540	704	1000	"	"	"	"	"	X
67-66-3	Chloroform	< 1270	U, D	µg/kg dry	1270	681	1000	"	"	"	"	"	X
74-87-3	Chloromethane	< 2540	U, D	µg/kg dry	2540	524	1000	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1270	U, D	µg/kg dry	1270	316	1000	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1270	U, D	µg/kg dry	1270	298	1000	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2540	U, D	µg/kg dry	2540	1830	1000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1270	U, D	µg/kg dry	1270	860	1000	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1270	U, D	µg/kg dry	1270	851	1000	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1270	U, D	µg/kg dry	1270	660	1000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1270	U, D	µg/kg dry	1270	330	1000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1270	U, D	µg/kg dry	1270	275	1000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1270	U, D	µg/kg dry	1270	375	1000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2540	U, D	µg/kg dry	2540	481	1000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1270	U, D	µg/kg dry	1270	332	1000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1270	U, D	µg/kg dry	1270	454	1000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1270	U, D	µg/kg dry	1270	663	1000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1270	U, D	µg/kg dry	1270	471	1000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1270	U, D	µg/kg dry	1270	672	1000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1270	U, D	µg/kg dry	1270	665	1000	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1270	U, D	µg/kg dry	1270	657	1000	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1270	U, D	µg/kg dry	1270	599	1000	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1270	U, D	µg/kg dry	1270	408	1000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1270	U, D	µg/kg dry	1270	765	1000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1270	U, D	µg/kg dry	1270	666	1000	"	"	"	"	"	X

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260 GS1

Initial weight: 14.23 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	**10,100**	D	µg/kg dry	1270	183	1000	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
87-68-3	Hexachlorobutadiene	< 1270	U, D	µg/kg dry	1270	637	1000	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2540	U, D	µg/kg dry	2540	1560	1000	"	"	"	"	"	X
98-82-8	Isopropylbenzene	**2,660**	D	µg/kg dry	1270	250	1000	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**2,820**	D	µg/kg dry	1270	273	1000	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1270	U, D	µg/kg dry	1270	467	1000	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2540	U, D	µg/kg dry	2540	652	1000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2540	U, D	µg/kg dry	2540	504	1000	"	"	"	"	"	X
91-20-3	Naphthalene	**12,100**	D	µg/kg dry	1270	755	1000	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**5,710**	D	µg/kg dry	1270	206	1000	"	"	"	"	"	X
100-42-5	Styrene	< 1270	U, D	µg/kg dry	1270	255	1000	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1270	U, D	µg/kg dry	1270	1080	1000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1270	U, D	µg/kg dry	1270	1070	1000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1270	U, D	µg/kg dry	1270	434	1000	"	"	"	"	"	X
108-88-3	Toluene	**3,440**	D	µg/kg dry	1270	411	1000	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1270	U, D	µg/kg dry	1270	445	1000	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1270	U, D	µg/kg dry	1270	935	1000	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1270	U, D	µg/kg dry	1270	398	1000	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1270	U, D	µg/kg dry	1270	421	1000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1270	U, D	µg/kg dry	1270	920	1000	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1270	U, D	µg/kg dry	1270	346	1000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1270	U, D	µg/kg dry	1270	684	1000	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1270	U, D	µg/kg dry	1270	951	1000	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**52,200**	D	µg/kg dry	1270	308	1000	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**18,100**	D	µg/kg dry	1270	218	1000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1270	U, D	µg/kg dry	1270	429	1000	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**33,900**	D	µg/kg dry	2540	228	1000	"	"	"	"	"	X
95-47-6	o-Xylene	**10,600**	D	µg/kg dry	1270	355	1000	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2540	U, D	µg/kg dry	2540	2000	1000	"	"	"	"	"	
60-29-7	Ethyl ether	< 1270	U, D	µg/kg dry	1270	1150	1000	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1270	U, D	µg/kg dry	1270	424	1000	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1270	U, D	µg/kg dry	1270	684	1000	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1270	U, D	µg/kg dry	1270	236	1000	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 12700	U, D	µg/kg dry	12700	8300	1000	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 25400	U, D	µg/kg dry	25400	22000	1000	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 6340	U, D	µg/kg dry	6340	2890	1000	"	"	"	"	"	X
64-17-5	Ethanol	< 254000	U, D	µg/kg dry	254000	47300	1000	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*100*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*101*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-11/2-4 SC41669-11	11054.2	Soil	17-Nov-17 08:58	17-Nov-17

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	< 73.1	U	µg/kg dry	73.1	36.4	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.1	U	µg/kg dry	73.1	36.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.1	U	µg/kg dry	73.1	35.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.1	U	µg/kg dry	73.1	38.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.1	U	µg/kg dry	73.1	27.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.1	U	µg/kg dry	73.1	35.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.1	U	µg/kg dry	73.1	29.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.1	U	µg/kg dry	73.1	28.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.1	U	µg/kg dry	73.1	36.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.1	U	µg/kg dry	73.1	28.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.1	U	µg/kg dry	73.1	38.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.1	U	µg/kg dry	73.1	37.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.1	U	µg/kg dry	73.1	26.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**1,270**		µg/kg dry	73.1	36.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**3,380**		µg/kg dry	73.1	44.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	**1,500**		µg/kg dry	73.1	34.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.1	U	µg/kg dry	73.1	34.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.1	U	µg/kg dry	73.1	40.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*59*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*67*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*70*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.65	U	mg/kg dry	1.65	0.178	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.863**	J	mg/kg dry	1.65	0.209	1	"	"	"	"	"	X
7440-39-3	Barium	**139**		mg/kg dry	1.10	0.130	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.715	R01, U	mg/kg dry	0.715	0.0285	1	"	"	"	"	"	X
7440-47-3	Chromium	**22.3**		mg/kg dry	1.10	0.146	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0328	U	mg/kg dry	0.0328	0.0091	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**9.13**		mg/kg dry	1.65	0.233	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.65	U	mg/kg dry	1.65	0.315	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**90.5**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12/1-3 SC41669-12	11054.2	Soil	17-Nov-17 09:24	17-Nov-17

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	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1719464	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 6 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.06	U	µg/kg dry	5.06	2.56	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 50.6	U	µg/kg dry	50.6	20.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.06	U	µg/kg dry	5.06	4.86	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.06	U	µg/kg dry	5.06	1.34	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.06	U	µg/kg dry	5.06	1.35	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.06	U	µg/kg dry	5.06	2.55	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.06	U	µg/kg dry	5.06	3.37	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.06	U	µg/kg dry	5.06	4.82	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.1	U	µg/kg dry	10.1	4.57	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.1	U	µg/kg dry	10.1	9.04	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.06	U	µg/kg dry	5.06	1.45	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.06	U	µg/kg dry	5.06	0.92	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.06	U	µg/kg dry	5.06	1.13	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.1	U	µg/kg dry	10.1	3.24	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.06	U	µg/kg dry	5.06	4.14	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.06	U	µg/kg dry	5.06	1.58	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.1	U	µg/kg dry	10.1	2.81	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.06	U	µg/kg dry	5.06	2.72	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.1	U	µg/kg dry	10.1	2.09	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.06	U	µg/kg dry	5.06	1.26	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.06	U	µg/kg dry	5.06	1.19	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.1	U	µg/kg dry	10.1	7.31	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.06	U	µg/kg dry	5.06	3.43	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.06	U	µg/kg dry	5.06	3.39	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.06	U	µg/kg dry	5.06	2.63	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.31	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.10	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.50	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.1	U	µg/kg dry	10.1	1.92	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.06	U	µg/kg dry	5.06	1.32	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.06	U	µg/kg dry	5.06	1.81	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.06	U	µg/kg dry	5.06	2.64	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.06	U	µg/kg dry	5.06	1.88	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.06	U	µg/kg dry	5.06	2.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.65	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.62	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.06	U	µg/kg dry	5.06	2.39	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.06	U	µg/kg dry	5.06	1.63	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.06	U	µg/kg dry	5.06	3.05	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.06	U	µg/kg dry	5.06	2.65	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12/1-3 SC41669-12	11054.2	Soil	17-Nov-17 09:24	17-Nov-17

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 6 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 5.06	U	µg/kg dry	5.06	0.73	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
87-68-3	Hexachlorobutadiene	< 5.06	U	µg/kg dry	5.06	2.54	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.1	U	µg/kg dry	10.1	6.20	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.06	U	µg/kg dry	5.06	1.00	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.06	U	µg/kg dry	5.06	1.09	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.06	U	µg/kg dry	5.06	1.86	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.1	U	µg/kg dry	10.1	2.60	1	"	"	"	"	"	X
75-09-2	Methylene chloride	2.14	J	µg/kg dry	10.1	2.01	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.06	U	µg/kg dry	5.06	3.01	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.06	U	µg/kg dry	5.06	0.82	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.06	U	µg/kg dry	5.06	1.02	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.06	U	µg/kg dry	5.06	4.30	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.06	U	µg/kg dry	5.06	4.28	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.06	U	µg/kg dry	5.06	1.73	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.06	U	µg/kg dry	5.06	1.64	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.77	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	3.73	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.06	U	µg/kg dry	5.06	1.59	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.06	U	µg/kg dry	5.06	1.68	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.06	U	µg/kg dry	5.06	3.67	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.06	U	µg/kg dry	5.06	1.38	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.06	U	µg/kg dry	5.06	2.73	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.06	U	µg/kg dry	5.06	3.79	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.06	U	µg/kg dry	5.06	1.23	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.06	U	µg/kg dry	5.06	0.87	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.06	U	µg/kg dry	5.06	1.71	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.1	U	µg/kg dry	10.1	0.91	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.06	U	µg/kg dry	5.06	1.42	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.1	U	µg/kg dry	10.1	7.97	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.06	U	µg/kg dry	5.06	4.58	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.06	U	µg/kg dry	5.06	1.69	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.06	U	µg/kg dry	5.06	2.73	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.06	U	µg/kg dry	5.06	0.94	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.6	U	µg/kg dry	50.6	33.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 101	U	µg/kg dry	101	87.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.3	U	µg/kg dry	25.3	11.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1010	U	µg/kg dry	1010	189	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*94*		*70-130 %*				"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*		*70-130 %*				"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*		*70-130 %*				"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*		*70-130 %*				"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12/1-3 SC41669-12	11054.2	Soil	17-Nov-17 09:24	17-Nov-17

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	< 73.0	U	µg/kg dry	73.0	36.3	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.0	U	µg/kg dry	73.0	36.0	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.0	U	µg/kg dry	73.0	34.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.0	U	µg/kg dry	73.0	38.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.0	U	µg/kg dry	73.0	27.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.0	U	µg/kg dry	73.0	35.4	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	< 73.0	U	µg/kg dry	73.0	36.5	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	< 73.0	U	µg/kg dry	73.0	38.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.0	U	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
90-12-0	1-Methylnaphthalene	< 73.0	U	µg/kg dry	73.0	35.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 73.0	U	µg/kg dry	73.0	44.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.0	U	µg/kg dry	73.0	34.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.0	U	µg/kg dry	73.0	34.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.0	U	µg/kg dry	73.0	40.7	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*53*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*67*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*62*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.59	U	mg/kg dry	1.59	0.172	1	SW846 6010C	18-Nov-17	20-Nov-17	SJR/T	1719476	X
7440-38-2	Arsenic	**0.953**	J	mg/kg dry	1.59	0.201	1	"	"	"	"	"	X
7440-39-3	Barium	**137**		mg/kg dry	1.06	0.125	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.688	R01, U	mg/kg dry	0.688	0.0274	1	"	"	"	"	"	X
7440-47-3	Chromium	**23.4**		mg/kg dry	1.06	0.141	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0288	U	mg/kg dry	0.0288	0.0080	1	SW846 7471B	"	22-Nov-17	JLC	1719477	X
Prepared by method SW846 3051A													
7439-92-1	Lead	**8.82**		mg/kg dry	1.59	0.224	1	SW846 6010C	"	20-Nov-17	SJR/T	1719476	X
7782-49-2	Selenium	< 1.59	U	mg/kg dry	1.59	0.303	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13/4-5 SC41669-13	11054.2	Soil	17-Nov-17 10:06	17-Nov-17

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	< 73.1	U	µg/kg dry	73.1	36.4	1	SW846 8270D	17-Nov-17	22-Nov-17	EDT	1719475	X
208-96-8	Acenaphthylene	< 73.1	U	µg/kg dry	73.1	36.0	1	"	"	"	"	"	X
120-12-7	Anthracene	< 73.1	U	µg/kg dry	73.1	35.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 73.1	U	µg/kg dry	73.1	38.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 73.1	U	µg/kg dry	73.1	27.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 73.1	U	µg/kg dry	73.1	35.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 73.1	U	µg/kg dry	73.1	29.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 73.1	U	µg/kg dry	73.1	28.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 73.1	U	µg/kg dry	73.1	36.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 73.1	U	µg/kg dry	73.1	28.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 73.1	U	µg/kg dry	73.1	38.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 73.1	U	µg/kg dry	73.1	37.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 73.1	U	µg/kg dry	73.1	26.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 73.1	U	µg/kg dry	73.1	35.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 73.1	U	µg/kg dry	73.1	44.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 73.1	U	µg/kg dry	73.1	34.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 73.1	U	µg/kg dry	73.1	34.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 73.1	U	µg/kg dry	73.1	40.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*69*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*52*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.9	U	µg/kg dry	21.9	9.80	1	SW846 8082A	20-Nov-17	21-Nov-17	IMR	1719497	X
11104-28-2	Aroclor-1221	< 21.9	U	µg/kg dry	21.9	11.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9	U	µg/kg dry	21.9	10.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9	U	µg/kg dry	21.9	21.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.9	U	µg/kg dry	21.9	20.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9	U	µg/kg dry	21.9	14.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9	U	µg/kg dry	21.9	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9	U	µg/kg dry	21.9	19.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9	U	µg/kg dry	21.9	9.87	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*45*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.0**		%			1	SM2540 G (11) Mod.	21-Nov-17	21-Nov-17	BD	1719613	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC41669-14	11054.2	Methanol/Deionized Water	16-Nov-17 06:00	17-Nov-17

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 5035A Soil (low level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	2.54	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.06	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.24	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.72	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	6.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC41669-14	11054.2	Methanol/Deionized Water	16-Nov-17 06:00	17-Nov-17

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	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719503	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	1.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	7.88	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5035A Soil (high level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0	25.4	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC41669-14	11054.2	Methanol/Deionized Water	16-Nov-17 06:00	17-Nov-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
67-64-1	Acetone	< 500	U, D	µg/kg wet	500	200	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0	48.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 50.0	U, D	µg/kg wet	50.0	13.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 50.0	U, D	µg/kg wet	50.0	13.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0	25.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 100	U, D	µg/kg wet	100	89.4	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	14.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.10	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	11.2	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 100	U, D	µg/kg wet	100	32.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	20.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	12.4	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.8	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100	72.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0	33.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 50.0	U, D	µg/kg wet	50.0	26.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	14.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	13.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	17.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	25.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	23.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	16.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0	7.20	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0	25.1	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100	61.4	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.85	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC41669-14	11054.2	Methanol/Deionized Water	16-Nov-17 06:00	17-Nov-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
99-87-6	4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	SW846 8260C	20-Nov-17	20-Nov-17	MP	1719513	X
1634-04-4	Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	18.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100	25.7	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	19.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.0	U, D	µg/kg wet	50.0	29.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.10	50	"	"	"	"	"	X
100-42-5	Styrene	< 50.0	U, D	µg/kg wet	50.0	10.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 50.0	U, D	µg/kg wet	50.0	16.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	17.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	36.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.7	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0	37.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	12.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.60	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 100	U, D	µg/kg wet	100	9.00	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 50.0	U, D	µg/kg wet	50.0	14.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 100	U, D	µg/kg wet	100	78.8	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 50.0	U, D	µg/kg wet	50.0	45.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0	16.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0	9.30	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500	327	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1000	U, D	µg/kg wet	1000	868	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	U, D	µg/kg wet	250	114	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	U, D	µg/kg wet	10000	1860	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*104*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719503 - SW846 5035A Soil (low level)										
Blank (1719503-BLK1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719503 - SW846 5035A Soil (low level)										
Blank (1719503-BLK1)					Prepared & Analyzed: 20-Nov-17					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*46.2*		µg/kg		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*51.3*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*62.4*		µg/kg		*50.0*		*125*	*70-130*		
Surrogate: Dibromofluoromethane	*56.7*		µg/kg		*50.0*		*113*	*70-130*		
LCS (1719503-BS1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.5**		µg/kg		20.0		108	70-130		
Acetone	**19.9**		µg/kg		20.0		99	70-130		
Acrylonitrile	**17.6**		µg/kg		20.0		88	70-130		
Benzene	**19.0**		µg/kg		20.0		95	70-130		
Bromobenzene	**20.3**		µg/kg		20.0		102	70-130		
Bromochloromethane	**20.8**		µg/kg		20.0		104	70-130		
Bromodichloromethane	**20.7**		µg/kg		20.0		104	70-130		
Bromoform	**16.9**		µg/kg		20.0		84	70-130		
Bromomethane	**22.6**		µg/kg		20.0		113	70-130		
2-Butanone (MEK)	**17.6**		µg/kg		20.0		88	70-130		
n-Butylbenzene	**20.9**		µg/kg		20.0		104	70-130		
sec-Butylbenzene	**20.5**		µg/kg		20.0		102	70-130		
tert-Butylbenzene	**20.3**		µg/kg		20.0		101	70-130		
Carbon disulfide	**18.0**		µg/kg		20.0		90	70-130		
Carbon tetrachloride	**22.8**		µg/kg		20.0		114	70-130		
Chlorobenzene	**20.3**		µg/kg		20.0		102	70-130		
Chloroethane	**20.6**		µg/kg		20.0		103	70-130		
Chloroform	**20.7**		µg/kg		20.0		104	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719503 - SW846 5035A Soil (low level)										
LCS (1719503-BS1)						Prepared & Analyzed: 20-Nov-17				
Chloromethane	**16.5**		µg/kg		20.0		82	70-130		
2-Chlorotoluene	**19.8**		µg/kg		20.0		99	70-130		
4-Chlorotoluene	**20.8**		µg/kg		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	**15.5**		µg/kg		20.0		78	70-130		
Dibromochloromethane	**20.4**		µg/kg		20.0		102	70-130		
1,2-Dibromoethane (EDB)	**19.7**		µg/kg		20.0		98	70-130		
Dibromomethane	**21.1**		µg/kg		20.0		106	70-130		
1,2-Dichlorobenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3-Dichlorobenzene	**20.9**		µg/kg		20.0		104	70-130		
1,4-Dichlorobenzene	**19.7**		µg/kg		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	**18.1**		µg/kg		20.0		90	70-130		
1,1-Dichloroethane	**19.8**		µg/kg		20.0		99	70-130		
1,2-Dichloroethane	**22.3**		µg/kg		20.0		112	70-130		
1,1-Dichloroethene	**19.3**		µg/kg		20.0		96	70-130		
cis-1,2-Dichloroethene	**19.9**		µg/kg		20.0		100	70-130		
trans-1,2-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130		
1,2-Dichloropropane	**18.4**		µg/kg		20.0		92	70-130		
1,3-Dichloropropane	**20.1**		µg/kg		20.0		100	70-130		
2,2-Dichloropropane	**18.3**		µg/kg		20.0		92	70-130		
1,1-Dichloropropene	**20.4**		µg/kg		20.0		102	70-130		
cis-1,3-Dichloropropene	**17.8**		µg/kg		20.0		89	70-130		
trans-1,3-Dichloropropene	**17.4**		µg/kg		20.0		87	70-130		
Ethylbenzene	**19.7**		µg/kg		20.0		99	70-130		
Hexachlorobutadiene	**22.6**		µg/kg		20.0		113	70-130		
2-Hexanone (MBK)	**15.8**		µg/kg		20.0		79	70-130		
Isopropylbenzene	**20.3**		µg/kg		20.0		102	70-130		
4-Isopropyltoluene	**20.9**		µg/kg		20.0		104	70-130		
Methyl tert-butyl ether	**16.6**		µg/kg		20.0		83	70-130		
4-Methyl-2-pentanone (MIBK)	**18.5**		µg/kg		20.0		93	70-130		
Methylene chloride	**18.5**		µg/kg		20.0		92	70-130		
Naphthalene	**16.1**		µg/kg		20.0		80	70-130		
n-Propylbenzene	**19.8**		µg/kg		20.0		99	70-130		
Styrene	**18.2**		µg/kg		20.0		91	70-130		
1,1,1,2-Tetrachloroethane	**21.0**		µg/kg		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	**18.1**		µg/kg		20.0		91	70-130		
Tetrachloroethene	**22.3**		µg/kg		20.0		112	70-130		
Toluene	**20.2**		µg/kg		20.0		101	70-130		
1,2,3-Trichlorobenzene	**22.1**		µg/kg		20.0		111	70-130		
1,2,4-Trichlorobenzene	**21.3**		µg/kg		20.0		107	70-130		
1,3,5-Trichlorobenzene	**23.1**		µg/kg		20.0		116	70-130		
1,1,1-Trichloroethane	**21.4**		µg/kg		20.0		107	70-130		
1,1,2-Trichloroethane	**19.3**		µg/kg		20.0		97	70-130		
Trichloroethene	**20.6**		µg/kg		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	**25.6**		µg/kg		20.0		128	70-130		
1,2,3-Trichloropropane	**18.6**		µg/kg		20.0		93	70-130		
1,2,4-Trimethylbenzene	**21.1**		µg/kg		20.0		106	70-130		
1,3,5-Trimethylbenzene	**20.8**		µg/kg		20.0		104	70-130		
Vinyl chloride	**22.0**		µg/kg		20.0		110	70-130		
m,p-Xylene	**18.8**		µg/kg		20.0		94	70-130		
o-Xylene	**19.7**		µg/kg		20.0		98	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719503 - SW846 5035A Soil (low level)										
LCS (1719503-BS1)						Prepared & Analyzed: 20-Nov-17				
Tetrahydrofuran	**14.3**		µg/kg		20.0		71	70-130		
Ethyl ether	**19.3**		µg/kg		20.0		96	70-130		
Tert-amyl methyl ether	**21.4**		µg/kg		20.0		107	70-130		
Ethyl tert-butyl ether	**16.8**		µg/kg		20.0		84	70-130		
Di-isopropyl ether	**17.2**		µg/kg		20.0		86	70-130		
Tert-Butanol / butyl alcohol	**162**		µg/kg		200		81	70-130		
1,4-Dioxane	**135**		µg/kg		200		68	70-130		
trans-1,4-Dichloro-2-butene	**13.1**	QM9	µg/kg		20.0		65	70-130		
Ethanol	**330**		µg/kg		400		82	70-130		
Surrogate: 4-Bromofluorobenzene	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*51.8*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.1*		µg/kg		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*56.2*		µg/kg		*50.0*		*112*	*70-130*		
LCS Dup (1719503-BSD1)						Prepared & Analyzed: 20-Nov-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.0**		µg/kg		20.0		105	70-130	2	30
Acetone	**19.3**		µg/kg		20.0		96	70-130	3	30
Acrylonitrile	**16.5**		µg/kg		20.0		82	70-130	6	30
Benzene	**19.0**		µg/kg		20.0		95	70-130	0	30
Bromobenzene	**20.1**		µg/kg		20.0		101	70-130	1	30
Bromochloromethane	**20.8**		µg/kg		20.0		104	70-130	0.2	30
Bromodichloromethane	**20.5**		µg/kg		20.0		103	70-130	1	30
Bromoform	**17.1**		µg/kg		20.0		86	70-130	1	30
Bromomethane	**22.6**		µg/kg		20.0		113	70-130	0.2	30
2-Butanone (MEK)	**20.9**		µg/kg		20.0		104	70-130	17	30
n-Butylbenzene	**20.7**		µg/kg		20.0		103	70-130	1	30
sec-Butylbenzene	**20.4**		µg/kg		20.0		102	70-130	0.3	30
tert-Butylbenzene	**20.2**		µg/kg		20.0		101	70-130	0.5	30
Carbon disulfide	**17.7**		µg/kg		20.0		88	70-130	2	30
Carbon tetrachloride	**22.8**		µg/kg		20.0		114	70-130	0.4	30
Chlorobenzene	**20.3**		µg/kg		20.0		102	70-130	0.1	30
Chloroethane	**19.6**		µg/kg		20.0		98	70-130	5	30
Chloroform	**20.4**		µg/kg		20.0		102	70-130	2	30
Chloromethane	**16.3**		µg/kg		20.0		82	70-130	1	30
2-Chlorotoluene	**20.1**		µg/kg		20.0		101	70-130	2	30
4-Chlorotoluene	**20.6**		µg/kg		20.0		103	70-130	0.9	30
1,2-Dibromo-3-chloropropane	**15.7**		µg/kg		20.0		78	70-130	1	30
Dibromochloromethane	**19.6**		µg/kg		20.0		98	70-130	4	30
1,2-Dibromoethane (EDB)	**19.3**		µg/kg		20.0		97	70-130	2	30
Dibromomethane	**20.7**		µg/kg		20.0		103	70-130	2	30
1,2-Dichlorobenzene	**19.7**		µg/kg		20.0		98	70-130	0.5	30
1,3-Dichlorobenzene	**20.7**		µg/kg		20.0		103	70-130	1	30
1,4-Dichlorobenzene	**19.8**		µg/kg		20.0		99	70-130	0.6	30
Dichlorodifluoromethane (Freon12)	**16.8**		µg/kg		20.0		84	70-130	7	30
1,1-Dichloroethane	**19.5**		µg/kg		20.0		97	70-130	1	30
1,2-Dichloroethane	**21.8**		µg/kg		20.0		109	70-130	2	30
1,1-Dichloroethene	**18.9**		µg/kg		20.0		94	70-130	2	30
cis-1,2-Dichloroethene	**19.5**		µg/kg		20.0		98	70-130	2	30
trans-1,2-Dichloroethene	**19.4**		µg/kg		20.0		97	70-130	1	30
1,2-Dichloropropane	**18.2**		µg/kg		20.0		91	70-130	1	30
1,3-Dichloropropane	**18.9**		µg/kg		20.0		94	70-130	6	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719503 - SW846 5035A Soil (low level)										
LCS Dup (1719503-BSD1)						Prepared & Analyzed: 20-Nov-17				
2,2-Dichloropropane	**17.9**		µg/kg		20.0		90	70-130	2	30
1,1-Dichloropropene	**20.2**		µg/kg		20.0		101	70-130	1	30
cis-1,3-Dichloropropene	**17.5**		µg/kg		20.0		87	70-130	2	30
trans-1,3-Dichloropropene	**16.9**		µg/kg		20.0		85	70-130	3	30
Ethylbenzene	**19.8**		µg/kg		20.0		99	70-130	0.3	30
Hexachlorobutadiene	**22.4**		µg/kg		20.0		112	70-130	1	30
2-Hexanone (MBK)	**14.7**		µg/kg		20.0		73	70-130	7	30
Isopropylbenzene	**20.4**		µg/kg		20.0		102	70-130	0.7	30
4-Isopropyltoluene	**20.8**		µg/kg		20.0		104	70-130	0.2	30
Methyl tert-butyl ether	**15.9**		µg/kg		20.0		79	70-130	4	30
4-Methyl-2-pentanone (MIBK)	**14.4**		µg/kg		20.0		72	70-130	25	30
Methylene chloride	**18.2**		µg/kg		20.0		91	70-130	2	30
Naphthalene	**16.2**		µg/kg		20.0		81	70-130	0.6	30
n-Propylbenzene	**19.7**		µg/kg		20.0		99	70-130	0.7	30
Styrene	**17.4**		µg/kg		20.0		87	70-130	5	30
1,1,1,2-Tetrachloroethane	**21.2**		µg/kg		20.0		106	70-130	0.6	30
1,1,2,2-Tetrachloroethane	**17.6**		µg/kg		20.0		88	70-130	3	30
Tetrachloroethene	**21.6**		µg/kg		20.0		108	70-130	3	30
Toluene	**19.9**		µg/kg		20.0		99	70-130	2	30
1,2,3-Trichlorobenzene	**22.0**		µg/kg		20.0		110	70-130	0.7	30
1,2,4-Trichlorobenzene	**21.2**		µg/kg		20.0		106	70-130	0.6	30
1,3,5-Trichlorobenzene	**22.3**		µg/kg		20.0		112	70-130	4	30
1,1,1-Trichloroethane	**21.5**		µg/kg		20.0		108	70-130	0.4	30
1,1,2-Trichloroethane	**18.6**		µg/kg		20.0		93	70-130	4	30
Trichloroethene	**20.5**		µg/kg		20.0		103	70-130	0.5	30
Trichlorofluoromethane (Freon 11)	**25.9**		µg/kg		20.0		130	70-130	1	30
1,2,3-Trichloropropane	**18.6**		µg/kg		20.0		93	70-130	0.3	30
1,2,4-Trimethylbenzene	**21.0**		µg/kg		20.0		105	70-130	0.4	30
1,3,5-Trimethylbenzene	**20.5**		µg/kg		20.0		102	70-130	2	30
Vinyl chloride	**22.4**		µg/kg		20.0		112	70-130	2	30
m,p-Xylene	**18.7**		µg/kg		20.0		93	70-130	0.7	30
o-Xylene	**19.7**		µg/kg		20.0		99	70-130	0.2	30
Tetrahydrofuran	**14.4**		µg/kg		20.0		72	70-130	0.7	30
Ethyl ether	**19.3**		µg/kg		20.0		97	70-130	0.3	30
Tert-amyl methyl ether	**21.0**		µg/kg		20.0		105	70-130	2	30
Ethyl tert-butyl ether	**16.3**		µg/kg		20.0		82	70-130	2	30
Di-isopropyl ether	**16.9**		µg/kg		20.0		85	70-130	2	30
Tert-Butanol / butyl alcohol	**153**		µg/kg		200		77	70-130	6	30
1,4-Dioxane	**138**		µg/kg		200		69	70-130	2	30
trans-1,4-Dichloro-2-butene	**15.8**		µg/kg		20.0		79	70-130	19	30
Ethanol	**356**		µg/kg		400		89	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*49.3*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.0*		µg/kg		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*55.4*		µg/kg		*50.0*		*111*	*70-130*		
Batch 1719513 - SW846 5035A Soil (high level)										
Blank (1719513-BLK1)						Prepared & Analyzed: 20-Nov-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Blank (1719513-BLK1)					Prepared & Analyzed: 20-Nov-17					
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Blank (1719513-BLK1)					Prepared & Analyzed: 20-Nov-17					
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*46.5*		µg/kg		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.0*		µg/kg		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*53.5*		µg/kg		*50.0*		*107*	*70-130*		
LCS (1719513-BS1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.0**	D	µg/kg		20.0		95	70-130		
Acetone	**22.8**	D	µg/kg		20.0		114	70-130		
Acrylonitrile	**25.1**	D	µg/kg		20.0		125	70-130		
Benzene	**23.2**	D	µg/kg		20.0		116	70-130		
Bromobenzene	**22.6**	D	µg/kg		20.0		113	70-130		
Bromochloromethane	**23.1**	D	µg/kg		20.0		115	70-130		
Bromodichloromethane	**22.4**	D	µg/kg		20.0		112	70-130		
Bromoform	**22.2**	D	µg/kg		20.0		111	70-130		
Bromomethane	**17.0**	D	µg/kg		20.0		85	70-130		
2-Butanone (MEK)	**21.0**	D	µg/kg		20.0		105	70-130		
n-Butylbenzene	**21.2**	D	µg/kg		20.0		106	70-130		
sec-Butylbenzene	**21.8**	D	µg/kg		20.0		109	70-130		
tert-Butylbenzene	**21.7**	D	µg/kg		20.0		108	70-130		
Carbon disulfide	**17.5**	D	µg/kg		20.0		88	70-130		
Carbon tetrachloride	**24.4**	D	µg/kg		20.0		122	70-130		
Chlorobenzene	**22.2**	D	µg/kg		20.0		111	70-130		
Chloroethane	**22.1**	D	µg/kg		20.0		110	70-130		
Chloroform	**21.8**	D	µg/kg		20.0		109	70-130		
Chloromethane	**22.1**	D	µg/kg		20.0		110	70-130		
2-Chlorotoluene	**23.6**	D	µg/kg		20.0		118	70-130		
4-Chlorotoluene	**21.6**	D	µg/kg		20.0		108	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
LCS (1719513-BS1)					Prepared & Analyzed: 20-Nov-17					
1,2-Dibromo-3-chloropropane	**22.7**	D	µg/kg		20.0		113	70-130		
Dibromochloromethane	**22.5**	D	µg/kg		20.0		112	70-130		
1,2-Dibromoethane (EDB)	**22.5**	D	µg/kg		20.0		113	70-130		
Dibromomethane	**21.7**	D	µg/kg		20.0		108	70-130		
1,2-Dichlorobenzene	**22.3**	D	µg/kg		20.0		111	70-130		
1,3-Dichlorobenzene	**22.9**	D	µg/kg		20.0		114	70-130		
1,4-Dichlorobenzene	**21.6**	D	µg/kg		20.0		108	70-130		
Dichlorodifluoromethane (Freon12)	**19.1**	D	µg/kg		20.0		96	70-130		
1,1-Dichloroethane	**22.6**	D	µg/kg		20.0		113	70-130		
1,2-Dichloroethane	**21.8**	D	µg/kg		20.0		109	70-130		
1,1-Dichloroethene	**25.8**	D	µg/kg		20.0		129	70-130		
cis-1,2-Dichloroethene	**23.3**	D	µg/kg		20.0		116	70-130		
trans-1,2-Dichloroethene	**22.5**	D	µg/kg		20.0		112	70-130		
1,2-Dichloropropane	**22.5**	D	µg/kg		20.0		112	70-130		
1,3-Dichloropropane	**22.2**	D	µg/kg		20.0		111	70-130		
2,2-Dichloropropane	**25.3**	D	µg/kg		20.0		127	70-130		
1,1-Dichloropropene	**21.2**	D	µg/kg		20.0		106	70-130		
cis-1,3-Dichloropropene	**21.4**	D	µg/kg		20.0		107	70-130		
trans-1,3-Dichloropropene	**21.6**	D	µg/kg		20.0		108	70-130		
Ethylbenzene	**21.5**	D	µg/kg		20.0		107	70-130		
Hexachlorobutadiene	**23.6**	D	µg/kg		20.0		118	70-130		
2-Hexanone (MBK)	**21.2**	D	µg/kg		20.0		106	70-130		
Isopropylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
4-Isopropyltoluene	**21.5**	D	µg/kg		20.0		107	70-130		
Methyl tert-butyl ether	**21.0**	D	µg/kg		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	**21.5**	D	µg/kg		20.0		107	70-130		
Methylene chloride	**21.4**	D	µg/kg		20.0		107	70-130		
Naphthalene	**20.3**	D	µg/kg		20.0		101	70-130		
n-Propylbenzene	**21.8**	D	µg/kg		20.0		109	70-130		
Styrene	**21.4**	D	µg/kg		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	**23.4**	D	µg/kg		20.0		117	70-130		
1,1,2,2-Tetrachloroethane	**23.1**	D	µg/kg		20.0		115	70-130		
Tetrachloroethene	**19.4**	D	µg/kg		20.0		97	70-130		
Toluene	**22.4**	D	µg/kg		20.0		112	70-130		
1,2,3-Trichlorobenzene	**21.5**	D	µg/kg		20.0		107	70-130		
1,2,4-Trichlorobenzene	**20.6**	D	µg/kg		20.0		103	70-130		
1,3,5-Trichlorobenzene	**20.6**	D	µg/kg		20.0		103	70-130		
1,1,1-Trichloroethane	**22.8**	D	µg/kg		20.0		114	70-130		
1,1,2-Trichloroethane	**22.7**	D	µg/kg		20.0		114	70-130		
Trichloroethene	**23.0**	D	µg/kg		20.0		115	70-130		
Trichlorofluoromethane (Freon 11)	**23.4**	D	µg/kg		20.0		117	70-130		
1,2,3-Trichloropropane	**23.0**	D	µg/kg		20.0		115	70-130		
1,2,4-Trimethylbenzene	**21.2**	D	µg/kg		20.0		106	70-130		
1,3,5-Trimethylbenzene	**21.4**	D	µg/kg		20.0		107	70-130		
Vinyl chloride	**21.2**	D	µg/kg		20.0		106	70-130		
m,p-Xylene	**21.6**	D	µg/kg		20.0		108	70-130		
o-Xylene	**21.8**	D	µg/kg		20.0		109	70-130		
Tetrahydrofuran	**18.3**	D	µg/kg		20.0		91	70-130		
Ethyl ether	**25.6**	D	µg/kg		20.0		128	70-130		
Tert-amyl methyl ether	**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 1719513 - SW846 5035A Soil (high level)										
LCS (1719513-BS1)					Prepared & Analyzed: 20-Nov-17					
Ethyl tert-butyl ether	**20.4**	D	µg/kg		20.0		102	70-130		
Di-isopropyl ether	**21.3**	D	µg/kg		20.0		106	70-130		
Tert-Butanol / butyl alcohol	**227**	D	µg/kg		200		114	70-130		
1,4-Dioxane	**191**	D	µg/kg		200		95	70-130		
trans-1,4-Dichloro-2-butene	**20.4**	D	µg/kg		20.0		102	70-130		
Ethanol	**394**	D	µg/kg		400		99	70-130		
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.5*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
LCS Dup (1719513-BSD1)					Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**22.3**	D	µg/kg		20.0		112	70-130	16	30
Acetone	**16.5**	QR2, D	µg/kg		20.0		82	70-130	32	30
Acrylonitrile	**22.5**	D	µg/kg		20.0		112	70-130	11	30
Benzene	**23.4**	D	µg/kg		20.0		117	70-130	0.4	30
Bromobenzene	**22.7**	D	µg/kg		20.0		114	70-130	0.5	30
Bromochloromethane	**23.6**	D	µg/kg		20.0		118	70-130	2	30
Bromodichloromethane	**22.7**	D	µg/kg		20.0		114	70-130	1	30
Bromoform	**23.0**	D	µg/kg		20.0		115	70-130	3	30
Bromomethane	**17.6**	D	µg/kg		20.0		88	70-130	4	30
2-Butanone (MEK)	**20.0**	D	µg/kg		20.0		100	70-130	5	30
n-Butylbenzene	**20.1**	D	µg/kg		20.0		101	70-130	5	30
sec-Butylbenzene	**21.3**	D	µg/kg		20.0		106	70-130	3	30
tert-Butylbenzene	**20.9**	D	µg/kg		20.0		105	70-130	4	30
Carbon disulfide	**25.1**	QR2, D	µg/kg		20.0		126	70-130	36	30
Carbon tetrachloride	**23.7**	D	µg/kg		20.0		118	70-130	3	30
Chlorobenzene	**22.1**	D	µg/kg		20.0		110	70-130	0.6	30
Chloroethane	**21.6**	D	µg/kg		20.0		108	70-130	2	30
Chloroform	**22.1**	D	µg/kg		20.0		110	70-130	1	30
Chloromethane	**23.0**	D	µg/kg		20.0		115	70-130	4	30
2-Chlorotoluene	**23.0**	D	µg/kg		20.0		115	70-130	3	30
4-Chlorotoluene	**21.5**	D	µg/kg		20.0		108	70-130	0.5	30
1,2-Dibromo-3-chloropropane	**23.5**	D	µg/kg		20.0		117	70-130	4	30
Dibromochloromethane	**23.2**	D	µg/kg		20.0		116	70-130	3	30
1,2-Dibromoethane (EDB)	**22.9**	D	µg/kg		20.0		114	70-130	2	30
Dibromomethane	**21.8**	D	µg/kg		20.0		109	70-130	0.6	30
1,2-Dichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130	2	30
1,3-Dichlorobenzene	**22.8**	D	µg/kg		20.0		114	70-130	0.4	30
1,4-Dichlorobenzene	**21.2**	D	µg/kg		20.0		106	70-130	2	30
Dichlorodifluoromethane (Freon12)	**18.8**	D	µg/kg		20.0		94	70-130	2	30
1,1-Dichloroethane	**22.7**	D	µg/kg		20.0		113	70-130	0.04	30
1,2-Dichloroethane	**22.0**	D	µg/kg		20.0		110	70-130	0.9	30
1,1-Dichloroethene	**16.3**	QR2, D	µg/kg		20.0		82	70-130	45	30
cis-1,2-Dichloroethene	**23.5**	D	µg/kg		20.0		118	70-130	0.9	30
trans-1,2-Dichloroethene	**21.6**	D	µg/kg		20.0		108	70-130	4	30
1,2-Dichloropropane	**22.5**	D	µg/kg		20.0		113	70-130	0.4	30
1,3-Dichloropropane	**23.0**	D	µg/kg		20.0		115	70-130	3	30
2,2-Dichloropropane	**25.2**	D	µg/kg		20.0		126	70-130	0.4	30
1,1-Dichloropropene	**19.9**	D	µg/kg		20.0		100	70-130	6	30
cis-1,3-Dichloropropene	**21.6**	D	µg/kg		20.0		108	70-130	0.8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
LCS Dup (1719513-BSD1)					Prepared & Analyzed: 20-Nov-17					
trans-1,3-Dichloropropene	**21.6**	D	µg/kg		20.0		108	70-130	0.4	30
Ethylbenzene	**21.1**	D	µg/kg		20.0		105	70-130	2	30
Hexachlorobutadiene	**22.7**	D	µg/kg		20.0		113	70-130	4	30
2-Hexanone (MBK)	**21.8**	D	µg/kg		20.0		109	70-130	3	30
Isopropylbenzene	**21.1**	D	µg/kg		20.0		105	70-130	2	30
4-Isopropyltoluene	**20.5**	D	µg/kg		20.0		103	70-130	5	30
Methyl tert-butyl ether	**20.7**	D	µg/kg		20.0		104	70-130	1	30
4-Methyl-2-pentanone (MIBK)	**21.4**	D	µg/kg		20.0		107	70-130	0.6	30
Methylene chloride	**23.9**	D	µg/kg		20.0		120	70-130	11	30
Naphthalene	**19.6**	D	µg/kg		20.0		98	70-130	3	30
n-Propylbenzene	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Styrene	**21.1**	D	µg/kg		20.0		106	70-130	1	30
1,1,1,2-Tetrachloroethane	**23.5**	D	µg/kg		20.0		118	70-130	0.4	30
1,1,2,2-Tetrachloroethane	**23.6**	D	µg/kg		20.0		118	70-130	2	30
Tetrachloroethene	**18.8**	D	µg/kg		20.0		94	70-130	3	30
Toluene	**22.5**	D	µg/kg		20.0		112	70-130	0.3	30
1,2,3-Trichlorobenzene	**20.6**	D	µg/kg		20.0		103	70-130	4	30
1,2,4-Trichlorobenzene	**19.4**	D	µg/kg		20.0		97	70-130	6	30
1,3,5-Trichlorobenzene	**19.5**	D	µg/kg		20.0		98	70-130	5	30
1,1,1-Trichloroethane	**22.3**	D	µg/kg		20.0		112	70-130	2	30
1,1,2-Trichloroethane	**23.4**	D	µg/kg		20.0		117	70-130	3	30
Trichloroethene	**22.6**	D	µg/kg		20.0		113	70-130	2	30
Trichlorofluoromethane (Freon 11)	**17.4**	D	µg/kg		20.0		87	70-130	29	30
1,2,3-Trichloropropane	**23.0**	D	µg/kg		20.0		115	70-130	0.09	30
1,2,4-Trimethylbenzene	**21.0**	D	µg/kg		20.0		105	70-130	1	30
1,3,5-Trimethylbenzene	**21.0**	D	µg/kg		20.0		105	70-130	2	30
Vinyl chloride	**20.5**	D	µg/kg		20.0		102	70-130	4	30
m,p-Xylene	**21.1**	D	µg/kg		20.0		106	70-130	2	30
o-Xylene	**21.5**	D	µg/kg		20.0		107	70-130	1	30
Tetrahydrofuran	**18.6**	D	µg/kg		20.0		93	70-130	2	30
Ethyl ether	**16.5**	QR2, D	µg/kg		20.0		82	70-130	44	30
Tert-amyl methyl ether	**22.5**	D	µg/kg		20.0		112	70-130	5	30
Ethyl tert-butyl ether	**20.5**	D	µg/kg		20.0		103	70-130	0.6	30
Di-isopropyl ether	**21.2**	D	µg/kg		20.0		106	70-130	0.2	30
Tert-Butanol / butyl alcohol	**214**	D	µg/kg		200		107	70-130	6	30
1,4-Dioxane	**199**	D	µg/kg		200		99	70-130	4	30
trans-1,4-Dichloro-2-butene	**20.5**	D	µg/kg		20.0		103	70-130	0.4	30
Ethanol	**402**	D	µg/kg		400		100	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*52.8*		µg/kg		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.5*		µg/kg		*50.0*		*101*	*70-130*		
Matrix Spike (1719513-MS1)			**Source: SC41669-01**		Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**12.3**	QM7, D	µg/kg		20.0	0.00	62	70-130		
Acetone	**24.4**	D	µg/kg		20.0	0.00	122	70-130		
Acrylonitrile	**25.5**	D	µg/kg		20.0	0.00	127	70-130		
Benzene	**22.6**	D	µg/kg		20.0	0.00	113	70-130		
Bromobenzene	**23.2**	D	µg/kg		20.0	0.00	116	70-130		
Bromochloromethane	**22.8**	D	µg/kg		20.0	0.00	114	70-130		
Bromodichloromethane	**21.9**	D	µg/kg		20.0	0.00	109	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Matrix Spike (1719513-MS1)			**Source: SC41669-01**			Prepared & Analyzed: 20-Nov-17				
Bromoform	**21.7**	D	µg/kg		20.0	0.00	108	70-130		
Bromomethane	**9.65**	QM7, D	µg/kg		20.0	0.00	48	70-130		
2-Butanone (MEK)	**27.5**	QM7, D	µg/kg		20.0	0.00	137	70-130		
n-Butylbenzene	**25.1**	D	µg/kg		20.0	10.2	75	70-130		
sec-Butylbenzene	**21.6**	D	µg/kg		20.0	5.38	81	70-130		
tert-Butylbenzene	**20.8**	D	µg/kg		20.0	4.01	84	70-130		
Carbon disulfide	**16.8**	D	µg/kg		20.0	0.00	84	70-130		
Carbon tetrachloride	**17.9**	D	µg/kg		20.0	0.00	90	70-130		
Chlorobenzene	**22.3**	D	µg/kg		20.0	0.00	111	70-130		
Chloroethane	**14.3**	D	µg/kg		20.0	0.00	72	70-130		
Chloroform	**21.6**	D	µg/kg		20.0	0.00	108	70-130		
Chloromethane	**19.6**	D	µg/kg		20.0	0.00	98	70-130		
2-Chlorotoluene	**24.8**	D	µg/kg		20.0	0.00	124	70-130		
4-Chlorotoluene	**22.7**	D	µg/kg		20.0	0.00	113	70-130		
1,2-Dibromo-3-chloropropane	**20.9**	D	µg/kg		20.0	0.00	104	70-130		
Dibromochloromethane	**22.4**	D	µg/kg		20.0	0.00	112	70-130		
1,2-Dibromoethane (EDB)	**22.8**	D	µg/kg		20.0	0.00	114	70-130		
Dibromomethane	**21.5**	D	µg/kg		20.0	0.00	108	70-130		
1,2-Dichlorobenzene	**23.6**	D	µg/kg		20.0	0.00	118	70-130		
1,3-Dichlorobenzene	**23.8**	D	µg/kg		20.0	0.00	119	70-130		
1,4-Dichlorobenzene	**23.0**	D	µg/kg		20.0	0.00	115	70-130		
Dichlorodifluoromethane (Freon12)	**7.21**	QM7, D	µg/kg		20.0	0.00	36	70-130		
1,1-Dichloroethane	**20.6**	D	µg/kg		20.0	0.00	103	70-130		
1,2-Dichloroethane	**22.0**	D	µg/kg		20.0	0.00	110	70-130		
1,1-Dichloroethene	**19.2**	D	µg/kg		20.0	0.00	96	70-130		
cis-1,2-Dichloroethene	**23.1**	D	µg/kg		20.0	0.00	115	70-130		
trans-1,2-Dichloroethene	**20.8**	D	µg/kg		20.0	0.00	104	70-130		
1,2-Dichloropropane	**22.7**	D	µg/kg		20.0	0.00	113	70-130		
1,3-Dichloropropane	**22.5**	D	µg/kg		20.0	0.00	112	70-130		
2,2-Dichloropropane	**24.7**	D	µg/kg		20.0	0.00	124	70-130		
1,1-Dichloropropene	**17.0**	D	µg/kg		20.0	0.00	85	70-130		
cis-1,3-Dichloropropene	**22.9**	D	µg/kg		20.0	0.00	115	70-130		
trans-1,3-Dichloropropene	**23.6**	D	µg/kg		20.0	0.00	118	70-130		
Ethylbenzene	**22.3**	D	µg/kg		20.0	4.70	88	70-130		
Hexachlorobutadiene	**24.3**	D	µg/kg		20.0	0.00	121	70-130		
2-Hexanone (MBK)	**23.6**	D	µg/kg		20.0	0.00	118	70-130		
Isopropylbenzene	**21.6**	D	µg/kg		20.0	4.54	85	70-130		
4-Isopropyltoluene	**22.0**	D	µg/kg		20.0	3.38	93	70-130		
Methyl tert-butyl ether	**21.3**	D	µg/kg		20.0	0.00	107	70-130		
4-Methyl-2-pentanone (MIBK)	**19.9**	D	µg/kg		20.0	0.00	100	70-130		
Methylene chloride	**22.4**	D	µg/kg		20.0	0.00	112	70-130		
Naphthalene	**24.1**	QM7, D	µg/kg		20.0	11.3	64	70-130		
n-Propylbenzene	**24.8**	QM7, D	µg/kg		20.0	13.9	55	70-130		
Styrene	**22.4**	D	µg/kg		20.0	0.00	112	70-130		
1,1,1,2-Tetrachloroethane	**23.5**	D	µg/kg		20.0	0.00	117	70-130		
1,1,2,2-Tetrachloroethane	**22.7**	D	µg/kg		20.0	0.00	113	70-130		
Tetrachloroethene	**17.7**	D	µg/kg		20.0	0.00	88	70-130		
Toluene	**22.0**	D	µg/kg		20.0	0.00	110	70-130		
1,2,3-Trichlorobenzene	**22.2**	D	µg/kg		20.0	0.00	111	70-130		
1,2,4-Trichlorobenzene	**23.7**	D	µg/kg		20.0	0.00	118	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Matrix Spike (1719513-MS1)			**Source: SC41669-01**		Prepared & Analyzed: 20-Nov-17					
1,3,5-Trichlorobenzene	**24.6**	D	µg/kg		20.0	0.00	123	70-130		
1,1,1-Trichloroethane	**18.9**	D	µg/kg		20.0	0.00	95	70-130		
1,1,2-Trichloroethane	**22.9**	D	µg/kg		20.0	0.00	115	70-130		
Trichloroethene	**21.5**	D	µg/kg		20.0	0.00	108	70-130		
Trichlorofluoromethane (Freon 11)	**12.4**	QM7, D	µg/kg		20.0	0.00	62	70-130		
1,2,3-Trichloropropane	**21.7**	D	µg/kg		20.0	0.00	108	70-130		
1,2,4-Trimethylbenzene	**23.7**	D	µg/kg		20.0	7.76	80	70-130		
1,3,5-Trimethylbenzene	**22.2**	D	µg/kg		20.0	5.38	84	70-130		
Vinyl chloride	**4.97**	QM7, D	µg/kg		20.0	0.00	25	70-130		
m,p-Xylene	**21.5**	D	µg/kg		20.0	2.80	93	70-130		
o-Xylene	**22.0**	D	µg/kg		20.0	0.00	110	70-130		
Tetrahydrofuran	**16.8**	D	µg/kg		20.0	0.00	84	70-130		
Ethyl ether	**24.8**	D	µg/kg		20.0	0.00	124	70-130		
Tert-amyl methyl ether	**22.3**	D	µg/kg		20.0	0.00	111	70-130		
Ethyl tert-butyl ether	**21.8**	D	µg/kg		20.0	0.00	109	70-130		
Di-isopropyl ether	**22.2**	D	µg/kg		20.0	0.00	111	70-130		
Tert-Butanol / butyl alcohol	**202**	D	µg/kg		200	0.00	101	70-130		
1,4-Dioxane	**180**	D	µg/kg		200	0.00	90	70-130		
trans-1,4-Dichloro-2-butene	**23.1**	D	µg/kg		20.0	0.00	116	70-130		
Ethanol	**390**	D	µg/kg		400	0.00	97	70-130		
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.5*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
Matrix Spike Dup (1719513-MSD1)			**Source: SC41669-01**		Prepared & Analyzed: 20-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**10.7**	QM7, D	µg/kg		20.0	0.00	54	70-130		30
Acetone	**22.0**	D	µg/kg		20.0	0.00	110	70-130		30
Acrylonitrile	**20.6**	D	µg/kg		20.0	0.00	103	70-130		30
Benzene	**24.0**	D	µg/kg		20.0	0.00	120	70-130		30
Bromobenzene	**24.8**	D	µg/kg		20.0	0.00	124	70-130		30
Bromochloromethane	**24.9**	D	µg/kg		20.0	0.00	124	70-130		30
Bromodichloromethane	**23.9**	D	µg/kg		20.0	0.00	120	70-130		30
Bromoform	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30
Bromomethane	**16.4**	D	µg/kg		20.0	0.00	82	70-130		30
2-Butanone (MEK)	**29.1**	QM7, D	µg/kg		20.0	0.00	145	70-130		30
n-Butylbenzene	**24.8**	D	µg/kg		20.0	10.2	73	70-130		30
sec-Butylbenzene	**22.2**	D	µg/kg		20.0	5.38	84	70-130		30
tert-Butylbenzene	**21.9**	D	µg/kg		20.0	4.01	90	70-130		30
Carbon disulfide	**14.5**	D	µg/kg		20.0	0.00	73	70-130		30
Carbon tetrachloride	**19.2**	D	µg/kg		20.0	0.00	96	70-130		30
Chlorobenzene	**23.9**	D	µg/kg		20.0	0.00	120	70-130		30
Chloroethane	**16.2**	D	µg/kg		20.0	0.00	81	70-130		30
Chloroform	**23.0**	D	µg/kg		20.0	0.00	115	70-130		30
Chloromethane	**19.5**	D	µg/kg		20.0	0.00	98	70-130		30
2-Chlorotoluene	**26.1**	D	µg/kg		20.0	0.00	130	70-130		30
4-Chlorotoluene	**23.7**	D	µg/kg		20.0	0.00	118	70-130		30
1,2-Dibromo-3-chloropropane	**22.6**	D	µg/kg		20.0	0.00	113	70-130		30
Dibromochloromethane	**24.6**	D	µg/kg		20.0	0.00	123	70-130		30
1,2-Dibromoethane (EDB)	**25.2**	D	µg/kg		20.0	0.00	126	70-130		30
Dibromomethane	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1719513-MSD1)			**Source: SC41669-01**		Prepared & Analyzed: 20-Nov-17					
1,2-Dichlorobenzene	**24.3**	D	µg/kg		20.0	0.00	121	70-130		30
1,3-Dichlorobenzene	**24.6**	D	µg/kg		20.0	0.00	123	70-130		30
1,4-Dichlorobenzene	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30
Dichlorodifluoromethane (Freon12)	**7.98**	QM7, D	µg/kg		20.0	0.00	40	70-130		30
1,1-Dichloroethane	**23.0**	D	µg/kg		20.0	0.00	115	70-130		30
1,2-Dichloroethane	**23.5**	D	µg/kg		20.0	0.00	118	70-130		30
1,1-Dichloroethene	**15.6**	D	µg/kg		20.0	0.00	78	70-130		30
cis-1,2-Dichloroethene	**24.7**	D	µg/kg		20.0	0.00	124	70-130		30
trans-1,2-Dichloroethene	**22.0**	D	µg/kg		20.0	0.00	110	70-130		30
1,2-Dichloropropane	**24.6**	D	µg/kg		20.0	0.00	123	70-130		30
1,3-Dichloropropane	**24.7**	D	µg/kg		20.0	0.00	123	70-130		30
2,2-Dichloropropane	**26.1**	D	µg/kg		20.0	0.00	130	70-130		30
1,1-Dichloropropene	**18.7**	D	µg/kg		20.0	0.00	94	70-130		30
cis-1,3-Dichloropropene	**24.9**	D	µg/kg		20.0	0.00	124	70-130		30
trans-1,3-Dichloropropene	**25.8**	D	µg/kg		20.0	0.00	129	70-130		30
Ethylbenzene	**23.4**	D	µg/kg		20.0	4.70	94	70-130		30
Hexachlorobutadiene	**23.4**	D	µg/kg		20.0	0.00	117	70-130		30
2-Hexanone (MBK)	**24.7**	D	µg/kg		20.0	0.00	124	70-130		30
Isopropylbenzene	**22.6**	D	µg/kg		20.0	4.54	90	70-130		30
4-Isopropyltoluene	**22.1**	D	µg/kg		20.0	3.38	93	70-130		30
Methyl tert-butyl ether	**23.4**	D	µg/kg		20.0	0.00	117	70-130		30
4-Methyl-2-pentanone (MIBK)	**22.8**	D	µg/kg		20.0	0.00	114	70-130		30
Methylene chloride	**18.3**	D	µg/kg		20.0	0.00	91	70-130		30
Naphthalene	**25.9**	D	µg/kg		20.0	11.3	73	70-130		30
n-Propylbenzene	**25.5**	QM7, D	µg/kg		20.0	13.9	58	70-130		30
Styrene	**23.9**	D	µg/kg		20.0	0.00	120	70-130		30
1,1,1,2-Tetrachloroethane	**24.9**	D	µg/kg		20.0	0.00	124	70-130		30
1,1,2,2-Tetrachloroethane	**24.7**	D	µg/kg		20.0	0.00	124	70-130		30
Tetrachloroethene	**18.8**	D	µg/kg		20.0	0.00	94	70-130		30
Toluene	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30
1,2,3-Trichlorobenzene	**22.6**	D	µg/kg		20.0	0.00	113	70-130		30
1,2,4-Trichlorobenzene	**24.4**	D	µg/kg		20.0	0.00	122	70-130		30
1,3,5-Trichlorobenzene	**24.5**	D	µg/kg		20.0	0.00	122	70-130		30
1,1,1-Trichloroethane	**20.1**	D	µg/kg		20.0	0.00	100	70-130		30
1,1,2-Trichloroethane	**25.2**	D	µg/kg		20.0	0.00	126	70-130		30
Trichloroethene	**22.5**	D	µg/kg		20.0	0.00	112	70-130		30
Trichlorofluoromethane (Freon 11)	**10.9**	QM7, D	µg/kg		20.0	0.00	55	70-130		30
1,2,3-Trichloropropane	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30
1,2,4-Trimethylbenzene	**24.4**	D	µg/kg		20.0	7.76	83	70-130		30
1,3,5-Trimethylbenzene	**23.0**	D	µg/kg		20.0	5.38	88	70-130		30
Vinyl chloride	**5.11**	QM7, D	µg/kg		20.0	0.00	26	70-130		30
m,p-Xylene	**22.7**	D	µg/kg		20.0	2.80	99	70-130		30
o-Xylene	**23.0**	D	µg/kg		20.0	0.00	115	70-130		30
Tetrahydrofuran	**19.4**	D	µg/kg		20.0	0.00	97	70-130		30
Ethyl ether	**18.2**	D	µg/kg		20.0	0.00	91	70-130		30
Tert-amyl methyl ether	**23.8**	D	µg/kg		20.0	0.00	119	70-130		30
Ethyl tert-butyl ether	**24.0**	D	µg/kg		20.0	0.00	120	70-130		30
Di-isopropyl ether	**24.2**	D	µg/kg		20.0	0.00	121	70-130		30
Tert-Butanol / butyl alcohol	**211**	D	µg/kg		200	0.00	105	70-130		30
1,4-Dioxane	**179**	D	µg/kg		200	0.00	90	70-130		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719513 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1719513-MSD1)			**Source: SC41669-01**		Prepared & Analyzed: 20-Nov-17					
trans-1,4-Dichloro-2-butene	**24.7**	D	µg/kg		20.0	0.00	124	70-130		30
Ethanol	**399**	D	µg/kg		400	0.00	100	70-130		30
Surrogate: 4-Bromofluorobenzene	*52.0*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.1*		µg/kg		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*48.4*		µg/kg		*50.0*		*97*	*70-130*		
Batch 1719572 - SW846 5035A Soil (high level)										
Blank (1719572-BLK1)					Prepared & Analyzed: 21-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719572 - SW846 5035A Soil (high level)										
Blank (1719572-BLK1)					Prepared & Analyzed: 21-Nov-17					
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*45.9*		µg/kg		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.7*		µg/kg		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/kg		*50.0*		*108*	*70-130*		
LCS (1719572-BS1)					Prepared & Analyzed: 21-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.5**	D	µg/kg		20.0		82	70-130		
Acetone	**15.5**	D	µg/kg		20.0		77	70-130		
Acrylonitrile	**15.1**	D	µg/kg		20.0		75	70-130		
Benzene	**24.0**	D	µg/kg		20.0		120	70-130		
Bromobenzene	**23.3**	D	µg/kg		20.0		116	70-130		
Bromochloromethane	**24.0**	D	µg/kg		20.0		120	70-130		
Bromodichloromethane	**22.9**	D	µg/kg		20.0		114	70-130		
Bromoform	**23.1**	D	µg/kg		20.0		116	70-130		
Bromomethane	**14.4**	D	µg/kg		20.0		72	70-130		
2-Butanone (MEK)	**20.0**	D	µg/kg		20.0		100	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719572 - SW846 5035A Soil (high level)										
LCS (1719572-BS1)						Prepared & Analyzed: 21-Nov-17				
n-Butylbenzene	**21.9**	D	µg/kg		20.0		110	70-130		
sec-Butylbenzene	**22.4**	D	µg/kg		20.0		112	70-130		
tert-Butylbenzene	**22.0**	D	µg/kg		20.0		110	70-130		
Carbon disulfide	**27.1**	QM9, D	µg/kg		20.0		136	70-130		
Carbon tetrachloride	**25.0**	D	µg/kg		20.0		125	70-130		
Chlorobenzene	**23.1**	D	µg/kg		20.0		115	70-130		
Chloroethane	**22.8**	D	µg/kg		20.0		114	70-130		
Chloroform	**22.6**	D	µg/kg		20.0		113	70-130		
Chloromethane	**25.4**	D	µg/kg		20.0		127	70-130		
2-Chlorotoluene	**24.2**	D	µg/kg		20.0		121	70-130		
4-Chlorotoluene	**22.0**	D	µg/kg		20.0		110	70-130		
1,2-Dibromo-3-chloropropane	**22.8**	D	µg/kg		20.0		114	70-130		
Dibromochloromethane	**23.0**	D	µg/kg		20.0		115	70-130		
1,2-Dibromoethane (EDB)	**23.1**	D	µg/kg		20.0		116	70-130		
Dibromomethane	**22.2**	D	µg/kg		20.0		111	70-130		
1,2-Dichlorobenzene	**22.8**	D	µg/kg		20.0		114	70-130		
1,3-Dichlorobenzene	**23.5**	D	µg/kg		20.0		117	70-130		
1,4-Dichlorobenzene	**22.2**	D	µg/kg		20.0		111	70-130		
Dichlorodifluoromethane (Freon12)	**22.0**	D	µg/kg		20.0		110	70-130		
1,1-Dichloroethane	**23.3**	D	µg/kg		20.0		117	70-130		
1,2-Dichloroethane	**22.3**	D	µg/kg		20.0		112	70-130		
1,1-Dichloroethene	**16.4**	D	µg/kg		20.0		82	70-130		
cis-1,2-Dichloroethene	**24.6**	D	µg/kg		20.0		123	70-130		
trans-1,2-Dichloroethene	**23.2**	D	µg/kg		20.0		116	70-130		
1,2-Dichloropropane	**22.9**	D	µg/kg		20.0		114	70-130		
1,3-Dichloropropane	**23.0**	D	µg/kg		20.0		115	70-130		
2,2-Dichloropropane	**25.8**	D	µg/kg		20.0		129	70-130		
1,1-Dichloropropene	**21.6**	D	µg/kg		20.0		108	70-130		
cis-1,3-Dichloropropene	**22.0**	D	µg/kg		20.0		110	70-130		
trans-1,3-Dichloropropene	**22.4**	D	µg/kg		20.0		112	70-130		
Ethylbenzene	**22.1**	D	µg/kg		20.0		111	70-130		
Hexachlorobutadiene	**24.5**	D	µg/kg		20.0		123	70-130		
2-Hexanone (MBK)	**21.1**	D	µg/kg		20.0		106	70-130		
Isopropylbenzene	**22.5**	D	µg/kg		20.0		112	70-130		
4-Isopropyltoluene	**22.0**	D	µg/kg		20.0		110	70-130		
Methyl tert-butyl ether	**21.4**	D	µg/kg		20.0		107	70-130		
4-Methyl-2-pentanone (MIBK)	**21.6**	D	µg/kg		20.0		108	70-130		
Methylene chloride	**14.7**	D	µg/kg		20.0		73	70-130		
Naphthalene	**20.0**	D	µg/kg		20.0		100	70-130		
n-Propylbenzene	**22.3**	D	µg/kg		20.0		111	70-130		
Styrene	**21.6**	D	µg/kg		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	**24.3**	D	µg/kg		20.0		121	70-130		
1,1,2,2-Tetrachloroethane	**24.1**	D	µg/kg		20.0		121	70-130		
Tetrachloroethene	**20.1**	D	µg/kg		20.0		100	70-130		
Toluene	**23.2**	D	µg/kg		20.0		116	70-130		
1,2,3-Trichlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130		
1,2,4-Trichlorobenzene	**20.1**	D	µg/kg		20.0		100	70-130		
1,3,5-Trichlorobenzene	**21.1**	D	µg/kg		20.0		105	70-130		
1,1,1-Trichloroethane	**23.7**	D	µg/kg		20.0		119	70-130		
1,1,2-Trichloroethane	**23.3**	D	µg/kg		20.0		117	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719572 - SW846 5035A Soil (high level)										
LCS (1719572-BS1)					Prepared & Analyzed: 21-Nov-17					
Trichloroethene	**23.9**	D	µg/kg		20.0		120	70-130		
Trichlorofluoromethane (Freon 11)	**23.9**	D	µg/kg		20.0		120	70-130		
1,2,3-Trichloropropane	**23.5**	D	µg/kg		20.0		117	70-130		
1,2,4-Trimethylbenzene	**21.9**	D	µg/kg		20.0		109	70-130		
1,3,5-Trimethylbenzene	**22.0**	D	µg/kg		20.0		110	70-130		
Vinyl chloride	**23.2**	D	µg/kg		20.0		116	70-130		
m,p-Xylene	**22.2**	D	µg/kg		20.0		111	70-130		
o-Xylene	**22.6**	D	µg/kg		20.0		113	70-130		
Tetrahydrofuran	**18.0**	D	µg/kg		20.0		90	70-130		
Ethyl ether	**15.3**	D	µg/kg		20.0		77	70-130		
Tert-amyl methyl ether	**23.0**	D	µg/kg		20.0		115	70-130		
Ethyl tert-butyl ether	**21.5**	D	µg/kg		20.0		107	70-130		
Di-isopropyl ether	**21.7**	D	µg/kg		20.0		108	70-130		
Tert-Butanol / butyl alcohol	**184**	D	µg/kg		200		92	70-130		
1,4-Dioxane	**198**	D	µg/kg		200		99	70-130		
trans-1,4-Dichloro-2-butene	**21.6**	D	µg/kg		20.0		108	70-130		
Ethanol	**388**	D	µg/kg		400		97	70-130		
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg		*50.0*		*100*	*70-130*		
LCS Dup (1719572-BSD1)					Prepared & Analyzed: 21-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**15.7**	D	µg/kg		20.0		79	70-130	4	30
Acetone	**17.0**	D	µg/kg		20.0		85	70-130	9	30
Acrylonitrile	**17.8**	D	µg/kg		20.0		89	70-130	17	30
Benzene	**22.1**	D	µg/kg		20.0		110	70-130	8	30
Bromobenzene	**21.6**	D	µg/kg		20.0		108	70-130	8	30
Bromochloromethane	**22.4**	D	µg/kg		20.0		112	70-130	7	30
Bromodichloromethane	**21.8**	D	µg/kg		20.0		109	70-130	5	30
Bromoform	**21.8**	D	µg/kg		20.0		109	70-130	6	30
Bromomethane	**15.6**	D	µg/kg		20.0		78	70-130	8	30
2-Butanone (MEK)	**19.5**	D	µg/kg		20.0		97	70-130	3	30
n-Butylbenzene	**18.7**	D	µg/kg		20.0		93	70-130	16	30
sec-Butylbenzene	**19.9**	D	µg/kg		20.0		99	70-130	12	30
tert-Butylbenzene	**19.7**	D	µg/kg		20.0		98	70-130	11	30
Carbon disulfide	**16.3**	QR2, D	µg/kg		20.0		81	70-130	50	30
Carbon tetrachloride	**22.7**	D	µg/kg		20.0		114	70-130	9	30
Chlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130	8	30
Chloroethane	**21.0**	D	µg/kg		20.0		105	70-130	8	30
Chloroform	**21.1**	D	µg/kg		20.0		106	70-130	7	30
Chloromethane	**23.0**	D	µg/kg		20.0		115	70-130	10	30
2-Chlorotoluene	**23.2**	D	µg/kg		20.0		116	70-130	4	30
4-Chlorotoluene	**20.4**	D	µg/kg		20.0		102	70-130	7	30
1,2-Dibromo-3-chloropropane	**21.3**	D	µg/kg		20.0		106	70-130	7	30
Dibromochloromethane	**21.8**	D	µg/kg		20.0		109	70-130	6	30
1,2-Dibromoethane (EDB)	**22.1**	D	µg/kg		20.0		111	70-130	5	30
Dibromomethane	**21.0**	D	µg/kg		20.0		105	70-130	5	30
1,2-Dichlorobenzene	**20.9**	D	µg/kg		20.0		104	70-130	9	30
1,3-Dichlorobenzene	**21.6**	D	µg/kg		20.0		108	70-130	9	30
1,4-Dichlorobenzene	**20.5**	D	µg/kg		20.0		103	70-130	8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719572 - SW846 5035A Soil (high level)										
LCS Dup (1719572-BSD1)						Prepared & Analyzed: 21-Nov-17				
Dichlorodifluoromethane (Freon12)	**19.1**	D	µg/kg		20.0		95	70-130	14	30
1,1-Dichloroethane	**21.6**	D	µg/kg		20.0		108	70-130	8	30
1,2-Dichloroethane	**21.3**	D	µg/kg		20.0		107	70-130	5	30
1,1-Dichloroethene	**18.6**	D	µg/kg		20.0		93	70-130	13	30
cis-1,2-Dichloroethene	**22.3**	D	µg/kg		20.0		112	70-130	9	30
trans-1,2-Dichloroethene	**21.8**	D	µg/kg		20.0		109	70-130	6	30
1,2-Dichloropropane	**21.3**	D	µg/kg		20.0		106	70-130	7	30
1,3-Dichloropropane	**22.2**	D	µg/kg		20.0		111	70-130	4	30
2,2-Dichloropropane	**23.3**	D	µg/kg		20.0		116	70-130	10	30
1,1-Dichloropropene	**18.3**	D	µg/kg		20.0		92	70-130	16	30
cis-1,3-Dichloropropene	**20.4**	D	µg/kg		20.0		102	70-130	7	30
trans-1,3-Dichloropropene	**21.1**	D	µg/kg		20.0		105	70-130	6	30
Ethylbenzene	**19.8**	D	µg/kg		20.0		99	70-130	11	30
Hexachlorobutadiene	**20.6**	D	µg/kg		20.0		103	70-130	17	30
2-Hexanone (MBK)	**20.2**	D	µg/kg		20.0		101	70-130	4	30
Isopropylbenzene	**20.0**	D	µg/kg		20.0		100	70-130	12	30
4-Isopropyltoluene	**19.2**	D	µg/kg		20.0		96	70-130	13	30
Methyl tert-butyl ether	**20.2**	D	µg/kg		20.0		101	70-130	6	30
4-Methyl-2-pentanone (MIBK)	**20.8**	D	µg/kg		20.0		104	70-130	4	30
Methylene chloride	**13.9**	QM9, D	µg/kg		20.0		69	70-130	6	30
Naphthalene	**17.6**	D	µg/kg		20.0		88	70-130	13	30
n-Propylbenzene	**19.5**	D	µg/kg		20.0		97	70-130	13	30
Styrene	**19.6**	D	µg/kg		20.0		98	70-130	10	30
1,1,1,2-Tetrachloroethane	**22.1**	D	µg/kg		20.0		111	70-130	9	30
1,1,2,2-Tetrachloroethane	**23.1**	D	µg/kg		20.0		115	70-130	5	30
Tetrachloroethene	**17.8**	D	µg/kg		20.0		89	70-130	12	30
Toluene	**21.5**	D	µg/kg		20.0		107	70-130	7	30
1,2,3-Trichlorobenzene	**19.0**	D	µg/kg		20.0		95	70-130	12	30
1,2,4-Trichlorobenzene	**17.7**	D	µg/kg		20.0		88	70-130	13	30
1,3,5-Trichlorobenzene	**18.4**	D	µg/kg		20.0		92	70-130	14	30
1,1,1-Trichloroethane	**21.1**	D	µg/kg		20.0		106	70-130	12	30
1,1,2-Trichloroethane	**22.7**	D	µg/kg		20.0		113	70-130	3	30
Trichloroethene	**21.0**	D	µg/kg		20.0		105	70-130	13	30
Trichlorofluoromethane (Freon 11)	**17.5**	QR2, D	µg/kg		20.0		88	70-130	31	30
1,2,3-Trichloropropane	**22.5**	D	µg/kg		20.0		113	70-130	4	30
1,2,4-Trimethylbenzene	**20.0**	D	µg/kg		20.0		100	70-130	9	30
1,3,5-Trimethylbenzene	**20.0**	D	µg/kg		20.0		100	70-130	10	30
Vinyl chloride	**20.7**	D	µg/kg		20.0		104	70-130	11	30
m,p-Xylene	**19.7**	D	µg/kg		20.0		98	70-130	12	30
o-Xylene	**20.8**	D	µg/kg		20.0		104	70-130	8	30
Tetrahydrofuran	**16.8**	D	µg/kg		20.0		84	70-130	7	30
Ethyl ether	**17.6**	D	µg/kg		20.0		88	70-130	14	30
Tert-amyl methyl ether	**22.4**	D	µg/kg		20.0		112	70-130	2	30
Ethyl tert-butyl ether	**19.9**	D	µg/kg		20.0		100	70-130	7	30
Di-isopropyl ether	**19.9**	D	µg/kg		20.0		100	70-130	9	30
Tert-Butanol / butyl alcohol	**189**	D	µg/kg		200		95	70-130	3	30
1,4-Dioxane	**162**	D	µg/kg		200		81	70-130	20	30
trans-1,4-Dichloro-2-butene	**22.0**	D	µg/kg		20.0		110	70-130	2	30
Ethanol	**384**	D	µg/kg		400		96	70-130	1	30
Surrogate: 4-Bromofluorobenzene	*53.0*		µg/kg		*50.0*		*106*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719572 - SW846 5035A Soil (high level)										
LCS Dup (1719572-BSD1)						Prepared & Analyzed: 21-Nov-17				
Surrogate: Toluene-d8	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.6*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/kg		*50.0*		*102*	*70-130*		
Batch 1719678 - SW846 5035A Soil (high level)										
Blank (1719678-BLK1)						Prepared & Analyzed: 22-Nov-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
Blank (1719678-BLK1)					Prepared & Analyzed: 22-Nov-17					
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.0*		µg/kg		*50.0*		*94*	*70-130*		
Surrogate: Dibromofluoromethane	*48.4*		µg/kg		*50.0*		*97*	*70-130*		
LCS (1719678-BS1)					Prepared & Analyzed: 22-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**13.0**	QM9, D	µg/kg		20.0		65	70-130		
Acetone	**15.3**	D	µg/kg		20.0		77	70-130		
Acrylonitrile	**13.8**	QM9, D	µg/kg		20.0		69	70-130		
Benzene	**23.4**	D	µg/kg		20.0		117	70-130		
Bromobenzene	**25.2**	D	µg/kg		20.0		126	70-130		
Bromochloromethane	**25.2**	D	µg/kg		20.0		126	70-130		
Bromodichloromethane	**21.2**	D	µg/kg		20.0		106	70-130		
Bromoform	**23.1**	D	µg/kg		20.0		115	70-130		
Bromomethane	**19.4**	D	µg/kg		20.0		97	70-130		
2-Butanone (MEK)	**22.5**	D	µg/kg		20.0		113	70-130		
n-Butylbenzene	**21.5**	D	µg/kg		20.0		108	70-130		
sec-Butylbenzene	**22.6**	D	µg/kg		20.0		113	70-130		
tert-Butylbenzene	**23.3**	D	µg/kg		20.0		116	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
LCS (1719678-BS1)					Prepared & Analyzed: 22-Nov-17					
Carbon disulfide	**21.9**	D	µg/kg		20.0		109	70-130		
Carbon tetrachloride	**23.6**	D	µg/kg		20.0		118	70-130		
Chlorobenzene	**23.4**	D	µg/kg		20.0		117	70-130		
Chloroethane	**17.5**	D	µg/kg		20.0		88	70-130		
Chloroform	**21.4**	D	µg/kg		20.0		107	70-130		
Chloromethane	**16.6**	D	µg/kg		20.0		83	70-130		
2-Chlorotoluene	**24.0**	D	µg/kg		20.0		120	70-130		
4-Chlorotoluene	**21.8**	D	µg/kg		20.0		109	70-130		
1,2-Dibromo-3-chloropropane	**21.3**	D	µg/kg		20.0		107	70-130		
Dibromochloromethane	**22.0**	D	µg/kg		20.0		110	70-130		
1,2-Dibromoethane (EDB)	**24.2**	D	µg/kg		20.0		121	70-130		
Dibromomethane	**21.9**	D	µg/kg		20.0		109	70-130		
1,2-Dichlorobenzene	**23.3**	D	µg/kg		20.0		116	70-130		
1,3-Dichlorobenzene	**23.7**	D	µg/kg		20.0		118	70-130		
1,4-Dichlorobenzene	**22.1**	D	µg/kg		20.0		111	70-130		
Dichlorodifluoromethane (Freon12)	**18.4**	D	µg/kg		20.0		92	70-130		
1,1-Dichloroethane	**21.6**	D	µg/kg		20.0		108	70-130		
1,2-Dichloroethane	**20.6**	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	**15.2**	D	µg/kg		20.0		76	70-130		
cis-1,2-Dichloroethene	**24.5**	D	µg/kg		20.0		122	70-130		
trans-1,2-Dichloroethene	**24.8**	D	µg/kg		20.0		124	70-130		
1,2-Dichloropropane	**21.9**	D	µg/kg		20.0		110	70-130		
1,3-Dichloropropane	**21.7**	D	µg/kg		20.0		109	70-130		
2,2-Dichloropropane	**25.5**	D	µg/kg		20.0		127	70-130		
1,1-Dichloropropene	**22.8**	D	µg/kg		20.0		114	70-130		
cis-1,3-Dichloropropene	**23.0**	D	µg/kg		20.0		115	70-130		
trans-1,3-Dichloropropene	**23.4**	D	µg/kg		20.0		117	70-130		
Ethylbenzene	**23.0**	D	µg/kg		20.0		115	70-130		
Hexachlorobutadiene	**25.7**	D	µg/kg		20.0		129	70-130		
2-Hexanone (MBK)	**21.7**	D	µg/kg		20.0		109	70-130		
Isopropylbenzene	**22.6**	D	µg/kg		20.0		113	70-130		
4-Isopropyltoluene	**22.4**	D	µg/kg		20.0		112	70-130		
Methyl tert-butyl ether	**23.7**	D	µg/kg		20.0		118	70-130		
4-Methyl-2-pentanone (MIBK)	**22.1**	D	µg/kg		20.0		110	70-130		
Methylene chloride	**12.2**	QM9, D	µg/kg		20.0		61	70-130		
Naphthalene	**22.2**	D	µg/kg		20.0		111	70-130		
n-Propylbenzene	**22.5**	D	µg/kg		20.0		112	70-130		
Styrene	**23.5**	D	µg/kg		20.0		117	70-130		
1,1,1,2-Tetrachloroethane	**24.8**	D	µg/kg		20.0		124	70-130		
1,1,2,2-Tetrachloroethane	**22.3**	D	µg/kg		20.0		112	70-130		
Tetrachloroethene	**22.0**	D	µg/kg		20.0		110	70-130		
Toluene	**22.7**	D	µg/kg		20.0		113	70-130		
1,2,3-Trichlorobenzene	**22.9**	D	µg/kg		20.0		114	70-130		
1,2,4-Trichlorobenzene	**23.5**	D	µg/kg		20.0		118	70-130		
1,3,5-Trichlorobenzene	**23.2**	D	µg/kg		20.0		116	70-130		
1,1,1-Trichloroethane	**23.0**	D	µg/kg		20.0		115	70-130		
1,1,2-Trichloroethane	**22.8**	D	µg/kg		20.0		114	70-130		
Trichloroethene	**23.9**	D	µg/kg		20.0		120	70-130		
Trichlorofluoromethane (Freon 11)	**17.2**	D	µg/kg		20.0		86	70-130		
1,2,3-Trichloropropane	**22.4**	D	µg/kg		20.0		112	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
LCS (1719678-BS1)					Prepared & Analyzed: 22-Nov-17					
1,2,4-Trimethylbenzene	**22.5**	D	µg/kg		20.0		112	70-130		
1,3,5-Trimethylbenzene	**22.7**	D	µg/kg		20.0		113	70-130		
Vinyl chloride	**17.2**	D	µg/kg		20.0		86	70-130		
m,p-Xylene	**23.8**	D	µg/kg		20.0		119	70-130		
o-Xylene	**22.6**	D	µg/kg		20.0		113	70-130		
Tetrahydrofuran	**19.7**	D	µg/kg		20.0		99	70-130		
Ethyl ether	**14.9**	D	µg/kg		20.0		74	70-130		
Tert-amyl methyl ether	**20.1**	D	µg/kg		20.0		100	70-130		
Ethyl tert-butyl ether	**23.4**	D	µg/kg		20.0		117	70-130		
Di-isopropyl ether	**21.8**	D	µg/kg		20.0		109	70-130		
Tert-Butanol / butyl alcohol	**189**	D	µg/kg		200		95	70-130		
1,4-Dioxane	**207**	D	µg/kg		200		103	70-130		
trans-1,4-Dichloro-2-butene	**24.4**	D	µg/kg		20.0		122	70-130		
Ethanol	**415**	D	µg/kg		400		104	70-130		
Surrogate: 4-Bromofluorobenzene	*51.6*		µg/kg		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.4*		µg/kg		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*49.1*		µg/kg		*50.0*		*98*	*70-130*		
LCS Dup (1719678-BSD1)					Prepared & Analyzed: 22-Nov-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.9**	D	µg/kg		20.0		84	70-130	26	30
Acetone	**16.3**	D	µg/kg		20.0		82	70-130	6	30
Acrylonitrile	**18.2**	D	µg/kg		20.0		91	70-130	28	30
Benzene	**23.0**	D	µg/kg		20.0		115	70-130	2	30
Bromobenzene	**25.4**	D	µg/kg		20.0		127	70-130	0.6	30
Bromochloromethane	**24.7**	D	µg/kg		20.0		123	70-130	2	30
Bromodichloromethane	**20.7**	D	µg/kg		20.0		103	70-130	2	30
Bromoform	**23.0**	D	µg/kg		20.0		115	70-130	0.2	30
Bromomethane	**18.5**	D	µg/kg		20.0		92	70-130	5	30
2-Butanone (MEK)	**22.7**	D	µg/kg		20.0		114	70-130	1	30
n-Butylbenzene	**21.2**	D	µg/kg		20.0		106	70-130	1	30
sec-Butylbenzene	**22.6**	D	µg/kg		20.0		113	70-130	0.4	30
tert-Butylbenzene	**22.9**	D	µg/kg		20.0		114	70-130	2	30
Carbon disulfide	**15.0**	QM9, D	µg/kg		20.0		75	70-130	37	30
Carbon tetrachloride	**22.4**	D	µg/kg		20.0		112	70-130	5	30
Chlorobenzene	**23.0**	D	µg/kg		20.0		115	70-130	1	30
Chloroethane	**17.5**	D	µg/kg		20.0		88	70-130	0	30
Chloroform	**20.8**	D	µg/kg		20.0		104	70-130	3	30
Chloromethane	**17.1**	D	µg/kg		20.0		85	70-130	3	30
2-Chlorotoluene	**23.8**	D	µg/kg		20.0		119	70-130	1	30
4-Chlorotoluene	**21.8**	D	µg/kg		20.0		109	70-130	0.2	30
1,2-Dibromo-3-chloropropane	**20.8**	D	µg/kg		20.0		104	70-130	2	30
Dibromochloromethane	**21.4**	D	µg/kg		20.0		107	70-130	3	30
1,2-Dibromoethane (EDB)	**23.5**	D	µg/kg		20.0		118	70-130	3	30
Dibromomethane	**21.7**	D	µg/kg		20.0		108	70-130	0.9	30
1,2-Dichlorobenzene	**23.1**	D	µg/kg		20.0		115	70-130	0.7	30
1,3-Dichlorobenzene	**23.7**	D	µg/kg		20.0		119	70-130	0.3	30
1,4-Dichlorobenzene	**22.0**	D	µg/kg		20.0		110	70-130	0.6	30
Dichlorodifluoromethane (Freon12)	**17.3**	D	µg/kg		20.0		86	70-130	6	30
1,1-Dichloroethane	**21.0**	D	µg/kg		20.0		105	70-130	3	30
1,2-Dichloroethane	**20.4**	D	µg/kg		20.0		102	70-130	0.9	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1719678 - SW846 5035A Soil (high level)										
LCS Dup (1719678-BSD1)					Prepared & Analyzed: 22-Nov-17					
1,1-Dichloroethene	**18.8**	D	µg/kg		20.0		94	70-130	22	30
cis-1,2-Dichloroethene	**23.5**	D	µg/kg		20.0		117	70-130	4	30
trans-1,2-Dichloroethene	**23.5**	D	µg/kg		20.0		118	70-130	5	30
1,2-Dichloropropane	**21.5**	D	µg/kg		20.0		107	70-130	2	30
1,3-Dichloropropane	**21.6**	D	µg/kg		20.0		108	70-130	0.7	30
2,2-Dichloropropane	**25.8**	D	µg/kg		20.0		129	70-130	1	30
1,1-Dichloropropene	**22.3**	D	µg/kg		20.0		111	70-130	3	30
cis-1,3-Dichloropropene	**22.4**	D	µg/kg		20.0		112	70-130	3	30
trans-1,3-Dichloropropene	**22.8**	D	µg/kg		20.0		114	70-130	3	30
Ethylbenzene	**22.7**	D	µg/kg		20.0		113	70-130	1	30
Hexachlorobutadiene	**25.6**	D	µg/kg		20.0		128	70-130	0.4	30
2-Hexanone (MBK)	**22.0**	D	µg/kg		20.0		110	70-130	1	30
Isopropylbenzene	**22.5**	D	µg/kg		20.0		112	70-130	0.7	30
4-Isopropyltoluene	**22.2**	D	µg/kg		20.0		111	70-130	1	30
Methyl tert-butyl ether	**23.7**	D	µg/kg		20.0		118	70-130	0.1	30
4-Methyl-2-pentanone (MIBK)	**22.1**	D	µg/kg		20.0		110	70-130	0.1	30
Methylene chloride	**15.7**	D	µg/kg		20.0		78	70-130	25	30
Naphthalene	**22.4**	D	µg/kg		20.0		112	70-130	1	30
n-Propylbenzene	**22.4**	D	µg/kg		20.0		112	70-130	0.5	30
Styrene	**23.3**	D	µg/kg		20.0		117	70-130	0.6	30
1,1,1,2-Tetrachloroethane	**24.0**	D	µg/kg		20.0		120	70-130	3	30
1,1,2,2-Tetrachloroethane	**22.6**	D	µg/kg		20.0		113	70-130	1	30
Tetrachloroethene	**21.6**	D	µg/kg		20.0		108	70-130	2	30
Toluene	**22.2**	D	µg/kg		20.0		111	70-130	2	30
1,2,3-Trichlorobenzene	**23.0**	D	µg/kg		20.0		115	70-130	0.4	30
1,2,4-Trichlorobenzene	**23.3**	D	µg/kg		20.0		117	70-130	0.9	30
1,3,5-Trichlorobenzene	**23.1**	D	µg/kg		20.0		116	70-130	0.3	30
1,1,1-Trichloroethane	**22.3**	D	µg/kg		20.0		112	70-130	3	30
1,1,2-Trichloroethane	**22.4**	D	µg/kg		20.0		112	70-130	2	30
Trichloroethene	**23.0**	D	µg/kg		20.0		115	70-130	4	30
Trichlorofluoromethane (Freon 11)	**17.5**	D	µg/kg		20.0		88	70-130	2	30
1,2,3-Trichloropropane	**22.9**	D	µg/kg		20.0		114	70-130	2	30
1,2,4-Trimethylbenzene	**22.5**	D	µg/kg		20.0		112	70-130	0.04	30
1,3,5-Trimethylbenzene	**22.4**	D	µg/kg		20.0		112	70-130	1	30
Vinyl chloride	**16.4**	D	µg/kg		20.0		82	70-130	4	30
m,p-Xylene	**23.2**	D	µg/kg		20.0		116	70-130	2	30
o-Xylene	**22.4**	D	µg/kg		20.0		112	70-130	0.7	30
Tetrahydrofuran	**19.6**	D	µg/kg		20.0		98	70-130	0.8	30
Ethyl ether	**19.7**	D	µg/kg		20.0		99	70-130	28	30
Tert-amyl methyl ether	**19.8**	D	µg/kg		20.0		99	70-130	2	30
Ethyl tert-butyl ether	**23.1**	D	µg/kg		20.0		116	70-130	1	30
Di-isopropyl ether	**21.6**	D	µg/kg		20.0		108	70-130	1	30
Tert-Butanol / butyl alcohol	**189**	D	µg/kg		200		94	70-130	0.06	30
1,4-Dioxane	**218**	D	µg/kg		200		109	70-130	5	30
trans-1,4-Dichloro-2-butene	**24.6**	D	µg/kg		20.0		123	70-130	1	30
Ethanol	**399**	D	µg/kg		400		100	70-130	4	30
Surrogate: 4-Bromofluorobenzene	*52.1*		µg/kg		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.4*		µg/kg		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*49.1*		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 1719475 - SW846 3546										
Blank (1719475-BLK1)					Prepared: 17-Nov-17 Analyzed: 20-Nov-17					
Acenaphthene	< 66.1	U	µg/kg wet	66.1						
Acenaphthylene	< 66.1	U	µg/kg wet	66.1						
Anthracene	< 66.1	U	µg/kg wet	66.1						
Benzo (a) anthracene	< 66.1	U	µg/kg wet	66.1						
Benzo (a) pyrene	< 66.1	U	µg/kg wet	66.1						
Benzo (b) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Benzo (g,h,i) perylene	< 66.1	U	µg/kg wet	66.1						
Benzo (k) fluoranthene	< 66.1	U	µg/kg wet	66.1						
Chrysene	< 66.1	U	µg/kg wet	66.1						
Dibenzo (a,h) anthracene	< 66.1	U	µg/kg wet	66.1						
Fluoranthene	< 66.1	U	µg/kg wet	66.1						
Fluorene	< 66.1	U	µg/kg wet	66.1						
Indeno (1,2,3-cd) pyrene	< 66.1	U	µg/kg wet	66.1						
1-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
2-Methylnaphthalene	< 66.1	U	µg/kg wet	66.1						
Naphthalene	< 66.1	U	µg/kg wet	66.1						
Phenanthrene	< 66.1	U	µg/kg wet	66.1						
Pyrene	< 66.1	U	µg/kg wet	66.1						
Surrogate: 2-Fluorobiphenyl	*964*		µg/kg wet		*1650*		*58*	*30-130*		
Surrogate: Terphenyl-dl4	*1190*		µg/kg wet		*1650*		*72*	*30-130*		
Surrogate: Nitrobenzene-d5	*908*		µg/kg wet		*1650*		*55*	*30-130*		
LCS (1719475-BS1)					Prepared: 17-Nov-17 Analyzed: 20-Nov-17					
Acenaphthene	**1100**		µg/kg wet	66.4	1660		66	40-140		
Acenaphthylene	**1130**		µg/kg wet	66.4	1660		68	40-140		
Anthracene	**1040**		µg/kg wet	66.4	1660		62	40-140		
Benzo (a) anthracene	**1120**		µg/kg wet	66.4	1660		67	40-140		
Benzo (a) pyrene	**1210**		µg/kg wet	66.4	1660		73	40-140		
Benzo (b) fluoranthene	**1220**		µg/kg wet	66.4	1660		74	40-140		
Benzo (g,h,i) perylene	**1090**		µg/kg wet	66.4	1660		66	40-140		
Benzo (k) fluoranthene	**1050**		µg/kg wet	66.4	1660		63	40-140		
Chrysene	**1100**		µg/kg wet	66.4	1660		66	40-140		
Dibenzo (a,h) anthracene	**1180**		µg/kg wet	66.4	1660		71	40-140		
Fluoranthene	**1240**		µg/kg wet	66.4	1660		75	40-140		
Fluorene	**1120**		µg/kg wet	66.4	1660		68	40-140		
Indeno (1,2,3-cd) pyrene	**1170**		µg/kg wet	66.4	1660		70	40-140		
1-Methylnaphthalene	**1120**		µg/kg wet	66.4	1660		67	40-140		
2-Methylnaphthalene	**1740**		µg/kg wet	66.4	1660		105	40-140		
Naphthalene	**1050**		µg/kg wet	66.4	1660		63	40-140		
Phenanthrene	**1070**		µg/kg wet	66.4	1660		65	40-140		
Pyrene	**1130**		µg/kg wet	66.4	1660		68	40-140		
Surrogate: 2-Fluorobiphenyl	*918*		µg/kg wet		*1660*		*55*	*30-130*		
Surrogate: Terphenyl-dl4	*962*		µg/kg wet		*1660*		*58*	*30-130*		
Surrogate: Nitrobenzene-d5	*1010*		µg/kg wet		*1660*		*61*	*30-130*		
LCS Dup (1719475-BSD1)					Prepared: 17-Nov-17 Analyzed: 20-Nov-17					
Acenaphthene	**1150**		µg/kg wet	66.3	1660		69	40-140	4	30
Acenaphthylene	**1120**		µg/kg wet	66.3	1660		68	40-140	1	30
Anthracene	**1050**		µg/kg wet	66.3	1660		63	40-140	0.9	30
Benzo (a) anthracene	**1170**		µg/kg wet	66.3	1660		71	40-140	5	30
Benzo (a) pyrene	**1280**		µg/kg wet	66.3	1660		77	40-140	6	30
Benzo (b) fluoranthene	**1220**		µg/kg wet	66.3	1660		74	40-140	0.5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1719475 - SW846 3546										
LCS Dup (1719475-BSD1)					Prepared: 17-Nov-17 Analyzed: 20-Nov-17					
Benzo (g,h,i) perylene	**1120**		µg/kg wet	66.3	1660		68	40-140	2	30
Benzo (k) fluoranthene	**1110**		µg/kg wet	66.3	1660		67	40-140	5	30
Chrysene	**1150**		µg/kg wet	66.3	1660		69	40-140	4	30
Dibenzo (a,h) anthracene	**1210**		µg/kg wet	66.3	1660		73	40-140	2	30
Fluoranthene	**1260**		µg/kg wet	66.3	1660		76	40-140	2	30
Fluorene	**1140**		µg/kg wet	66.3	1660		69	40-140	1	30
Indeno (1,2,3-cd) pyrene	**1180**		µg/kg wet	66.3	1660		71	40-140	0.8	30
1-Methylnaphthalene	**1140**		µg/kg wet	66.3	1660		69	40-140	2	30
2-Methylnaphthalene	**1670**		µg/kg wet	66.3	1660		101	40-140	4	30
Naphthalene	**1140**		µg/kg wet	66.3	1660		69	40-140	8	30
Phenanthrene	**1120**		µg/kg wet	66.3	1660		68	40-140	4	30
Pyrene	**1160**		µg/kg wet	66.3	1660		70	40-140	3	30
Surrogate: 2-Fluorobiphenyl	*929*		µg/kg wet		*1660*		*56*	*30-130*		
Surrogate: Terphenyl-dl4	*938*		µg/kg wet		*1660*		*57*	*30-130*		
Surrogate: Nitrobenzene-d5	*1020*		µg/kg wet		*1660*		*62*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1719497 - SW846 3546										
Blank (1719497-BLK1)					Prepared: 20-Nov-17 Analyzed: 21-Nov-17					
Aroclor-1016	< 19.7	U	µg/kg wet	19.7						
Aroclor-1016 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1221	< 19.7	U	µg/kg wet	19.7						
Aroclor-1221 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1232	< 19.7	U	µg/kg wet	19.7						
Aroclor-1232 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1242	< 19.7	U	µg/kg wet	19.7						
Aroclor-1242 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1248	< 19.7	U	µg/kg wet	19.7						
Aroclor-1248 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1254	< 19.7	U	µg/kg wet	19.7						
Aroclor-1254 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1260	< 19.7	U	µg/kg wet	19.7						
Aroclor-1260 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1262	< 19.7	U	µg/kg wet	19.7						
Aroclor-1262 [2C]	< 19.7	U	µg/kg wet	19.7						
Aroclor-1268	< 19.7	U	µg/kg wet	19.7						
Aroclor-1268 [2C]	< 19.7	U	µg/kg wet	19.7						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*9.84*		µg/kg wet		*19.7*		*50*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.84*		µg/kg wet		*19.7*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.7*		µg/kg wet		*19.7*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.7*		µg/kg wet		*19.7*		*100*	*30-150*		
LCS (1719497-BS1)					Prepared: 20-Nov-17 Analyzed: 21-Nov-17					
Aroclor-1016	**175**		µg/kg wet	19.8	247		71	40-140		
Aroclor-1016 [2C]	**178**		µg/kg wet	19.8	247		72	40-140		
Aroclor-1260	**187**		µg/kg wet	19.8	247		76	40-140		
Aroclor-1260 [2C]	**216**		µg/kg wet	19.8	247		87	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*9.89*		µg/kg wet		*19.8*		*50*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.89*		µg/kg wet		*19.8*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*19.8*		µg/kg wet		*19.8*		*100*	*30-150*		
LCS Dup (1719497-BSD1)					Prepared: 20-Nov-17 Analyzed: 21-Nov-17					
Aroclor-1016	**165**		µg/kg wet	19.8	248		66	40-140	6	30
Aroclor-1016 [2C]	**174**		µg/kg wet	19.8	248		70	40-140	3	30
Aroclor-1260	**191**		µg/kg wet	19.8	248		77	40-140	2	30
Aroclor-1260 [2C]	**199**		µg/kg wet	19.8	248		80	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*8.93*		µg/kg wet		*19.8*		*45*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*9.92*		µg/kg wet		*19.8*		*50*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.8*		µg/kg wet		*19.8*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*18.8*		µg/kg wet		*19.8*		*95*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1719476 - SW846 3051A										
Blank (1719476-BLK1)					Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Arsenic	< 1.46	U	mg/kg wet	1.46						
Cadmium	< 0.634	U	mg/kg wet	0.634						
Silver	< 1.46	U	mg/kg wet	1.46						
Chromium	< 0.976	U	mg/kg wet	0.976						
Lead	< 1.46	U	mg/kg wet	1.46						
Selenium	< 1.46	U	mg/kg wet	1.46						
Barium	< 0.976	U	mg/kg wet	0.976						
Duplicate (1719476-DUP1)			**Source: SC41669-07**		Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Silver	< 1.66	U	mg/kg dry	1.66		BRL				20
Chromium	**22.4**		mg/kg dry	1.11		24.4			8	20
Cadmium	< 0.719	R01, U	mg/kg dry	0.719		BRL				20
Lead	**4.51**		mg/kg dry	1.66		4.96			10	20
Selenium	< 1.66	U	mg/kg dry	1.66		BRL				20
Arsenic	**0.359**	QR6, J	mg/kg dry	1.66		0.529			38	20
Barium	**157**		mg/kg dry	1.11		166			6	20
Matrix Spike (1719476-MS1)			**Source: SC41669-07**		Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Cadmium	**112**		mg/kg dry	0.688	132	BRL	85	75-125		
Selenium	**123**		mg/kg dry	1.59	132	BRL	93	75-125		
Lead	**114**		mg/kg dry	1.59	132	4.96	82	75-125		
Chromium	**144**		mg/kg dry	1.06	132	24.4	91	75-125		
Arsenic	**121**		mg/kg dry	1.59	132	0.529	91	75-125		
Silver	**114**		mg/kg dry	1.59	132	BRL	86	75-125		
Barium	**293**		mg/kg dry	1.06	132	166	95	75-125		
Matrix Spike Dup (1719476-MSD1)			**Source: SC41669-07**		Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Cadmium	**105**		mg/kg dry	0.665	128	BRL	82	75-125	7	20
Selenium	**117**		mg/kg dry	1.54	128	BRL	91	75-125	6	20
Silver	**93.9**	QM7	mg/kg dry	1.54	128	BRL	73	75-125	19	20
Arsenic	**113**		mg/kg dry	1.54	128	0.529	88	75-125	7	20
Chromium	**137**		mg/kg dry	1.02	128	24.4	88	75-125	5	20
Lead	**106**		mg/kg dry	1.54	128	4.96	79	75-125	7	20
Barium	**291**		mg/kg dry	1.02	128	166	98	75-125	0.5	20
Post Spike (1719476-PS1)			**Source: SC41669-07**		Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Arsenic	**121**		mg/kg dry	1.60	134	0.529	90	80-120		
Cadmium	**112**		mg/kg dry	0.694	134	BRL	84	80-120		
Chromium	**141**		mg/kg dry	1.07	134	24.4	88	80-120		
Lead	**113**		mg/kg dry	1.60	134	4.96	81	80-120		
Selenium	**123**		mg/kg dry	1.60	134	BRL	92	80-120		
Silver	**102**	QM9	mg/kg dry	1.60	134	BRL	76	80-120		
Barium	**276**		mg/kg dry	1.07	134	166	82	80-120		
Reference (1719476-SRM1)					Prepared: 18-Nov-17 Analyzed: 20-Nov-17					
Cadmium	**38.0**		mg/kg wet	0.650	42.9		89	81.2-118.9		
Selenium	**42.3**		mg/kg wet	1.50	45.0		94	76.1-124.3		
Chromium	**49.3**		mg/kg wet	1.00	54.9		90	77.5-121.5		
Arsenic	**45.2**		mg/kg wet	1.50	51.3		88	80.9-120		
Silver	**18.4**		mg/kg wet	1.50	21.2		87	73.7-126.1		
Lead	**38.2**		mg/kg wet	1.50	45.3		84	81.2-118.8		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1719476 - SW846 3051A										
Reference (1719476-SRM1)						Prepared: 18-Nov-17 Analyzed: 20-Nov-17				
Barium	**99.0**		mg/kg wet	1.00	111		89	81.6-118.4		
Reference (1719476-SRM2)						Prepared: 18-Nov-17 Analyzed: 20-Nov-17				
Cadmium	**37.6**		mg/kg wet	0.650	42.8		88	81.2-118.9		
Selenium	**42.9**		mg/kg wet	1.50	44.8		96	76.1-124.3		
Chromium	**49.5**		mg/kg wet	1.00	54.7		91	77.5-121.5		
Arsenic	**46.3**		mg/kg wet	1.50	51.1		91	80.9-120		
Silver	**18.8**		mg/kg wet	1.50	21.2		89	73.7-126.1		
Lead	**39.3**		mg/kg wet	1.50	45.2		87	81.2-118.8		
Barium	**101**		mg/kg wet	1.00	111		91	81.6-118.4		
SW846 7471B										
Batch 1719477 - EPA200/SW7000 Series										
Blank (1719477-BLK1)						Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	< 0.0299	U	mg/kg wet	0.0299						
Duplicate (1719477-DUP1)			**Source: SC41669-07**			Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	< 0.0304	U	mg/kg dry	0.0304		BRL				20
Matrix Spike (1719477-MS1)			**Source: SC41669-07**			Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	**0.242**		mg/kg dry	0.0328	0.228	BRL	106	75-125		
Matrix Spike Dup (1719477-MSD1)			**Source: SC41669-07**			Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	**0.227**		mg/kg dry	0.0316	0.219	BRL	103	75-125	6	20
Post Spike (1719477-PS1)			**Source: SC41669-07**			Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	**0.189**		mg/kg dry	0.0323	0.224	BRL	84	80-120		
Reference (1719477-SRM1)						Prepared: 18-Nov-17 Analyzed: 22-Nov-17				
Mercury	**1.08**	D	mg/kg wet	0.300	1.05		103	73.4-126.9		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SM2540 G (11) Mod.										
Batch 1719613 - General Preparation										
Duplicate (1719613-DUP1)			**Source: SC41669-01**			Prepared & Analyzed: 21-Nov-17				
% Solids	**92.4**		%			92.9			0.5	5
Duplicate (1719613-DUP2)			**Source: SC41669-02**			Prepared & Analyzed: 21-Nov-17				
% Solids	**91.5**		%			90.7			0.9	5

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

SC41669-01	*SB-1/3-5*	11/17/2017 4:35 PM
SC41669-02	*SB-2/13-15*	11/17/2017 4:35 PM
SC41669-03	*SB-3/10-12*	11/17/2017 4:35 PM
SC41669-04	*SB-4/2-4*	11/17/2017 4:35 PM
SC41669-05	*SB-5/2-4*	11/17/2017 4:35 PM
SC41669-06	*SB-6/7-9*	11/17/2017 4:35 PM
SC41669-07	*SB-7/13-15*	11/17/2017 4:35 PM
SC41669-08	*SB-8/2-4*	11/17/2017 4:35 PM
SC41669-09	*SB-9/13-15*	11/17/2017 4:35 PM
SC41669-10	*SB-10/10-12*	11/17/2017 4:35 PM
SC41669-11	*SB-11/2-4*	11/17/2017 4:35 PM
SC41669-12	*SB-12/1-3*	11/17/2017 4:35 PM

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
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).
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.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
R01	The Reporting Limit has been raised to account for matrix interference.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.
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 41669 BM

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CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11-22-17

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Berkshire Environmental Services
214 East Elm St
Torrington, CT 06790

Telephone #: 860-482-6399
Project Mgr: Jim Ciaglo

Invoice To: Same

P.O No.: _____ Quote #: Special

Project No: 11054.2
Site Name: 136+138-140 Croton Ave
Location: Ossining State: NY
Sampler(s): JC

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= 4°C 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: 7/9 | 11 | 11

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:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers	Analysis: 8260	8270 - PAHs Only	Total RCRA 8	Check if chlorinated	QA/QC Reporting Notes
SC41669-01	SB-1 / 3-5	11-16-17	0934	G	So	3	1				X	X	X	☐	NY SCOs
02	SB-2 / 13-15		1020	G	So	3	1				X	X	X	☐	
03	SB-3 / 10-12		1040	G	So	3	1				X	X	X	☐	
04	SB-4 / 2-4		1052	G	So	3	1				X	X	X	☐	
05	SB-5 / 2-4		1102	G	So	3	1				X	X	X	☐	
06	SB-6 / 7-9		1141	G	So	3	1				X	X	X	☐	
07	SB-7 / 13-15		1229	G	So	3	1				X	X	X	☐	
08	SB-8 / 2-4		1243	G	So	3	1				X	X	X	☐	
09	SB-9 / 13-15		1324	G	So	3	1				X	X	X	☐	
10	SB-10 / 10-12	11-17-17	0850	G	So	3	1				X	X	X	☐	

Relinquished by:	Received by:	Date:	Time:
		11/17/17	1635

Temp °C: Observed 2.5 | Correction Factor 0 | Corrected 2.5 | IR ID # 1

☐ EDD format:
☒ E-mail to: jciaglo@best-env.com

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

SC41669

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CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 11-22-17

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Berkshire Environmental Services
214 East Elm St
Torrington, CT 06790

Telephone #: 860-482-6399
Project Mgr: Jim Ciaglo

Invoice To: Same

P.O No.: _____ Quote #: Specid

Project No: 110542
Site Name: 136+138-140 Croton Ave
Location: Ossining State: NY
Sampler(s): JC

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= 4°C 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= DI/CH3OH X2= _____ X3= _____

G= Grab C=Composite

List Preservative Code below: 7/9 | 11 | 11 | 11

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: 8260	8270 PAHs only	Total RCRA 8	8082 PCBs	Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
SC41669-11	SB-11/2-4	11-17-17	0858	G	SO	3	1			X	X	X		☐	NY SCOs
12	SB-12/1-3		0924	G	SO	3	1			X	X	X		☐	
13	SB-13/4-5		1006	G	SO	3 (JC)	1				X		X	☐	
14	Trip Blank	11-16-17	0600	G	X1	2				X				☐	
														☐	
														☐	
														☐	
														☐	
														☐	

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:

Relinquished by:	Received by:	Date:	Time:	Temp °C
		11/17/17	1635	Observed 2.5
				Correction Factor 0
				Corrected 2.5
				IR ID # 1

☐ EDD format:
☒ E-mail to: jciaglo@best-envi.com

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

Batch Summary

1719475

Semivolatile Organic Compounds by GCMS

1719475-BLK1
1719475-BS1
1719475-BSD1
SC41669-01 (SB-1/3-5)
SC41669-02 (SB-2/13-15)
SC41669-03 (SB-3/10-12)
SC41669-04 (SB-4/2-4)
SC41669-05 (SB-5/2-4)
SC41669-06 (SB-6/7-9)
SC41669-07 (SB-7/13-15)
SC41669-08 (SB-8/2-4)
SC41669-09 (SB-9/13-15)
SC41669-10 (SB-10/10-12)
SC41669-11 (SB-11/2-4)
SC41669-12 (SB-12/1-3)
SC41669-13 (SB-13/4-5)

1719476

Total Metals by EPA 6000/7000 Series Methods

1719476-BLK1
1719476-DUP1
1719476-MS1
1719476-MSD1
1719476-PS1
1719476-SRM1
1719476-SRM2
SC41669-01 (SB-1/3-5)
SC41669-02 (SB-2/13-15)
SC41669-03 (SB-3/10-12)
SC41669-04 (SB-4/2-4)
SC41669-05 (SB-5/2-4)
SC41669-06 (SB-6/7-9)
SC41669-07 (SB-7/13-15)
SC41669-08 (SB-8/2-4)
SC41669-09 (SB-9/13-15)
SC41669-10 (SB-10/10-12)
SC41669-11 (SB-11/2-4)
SC41669-12 (SB-12/1-3)

1719477

Total Metals by EPA 6000/7000 Series Methods

1719477-BLK1
1719477-DUP1
1719477-MS1
1719477-MSD1
1719477-PS1
1719477-SRM1
SC41669-01 (SB-1/3-5)
SC41669-02 (SB-2/13-15)
SC41669-03 (SB-3/10-12)
SC41669-04 (SB-4/2-4)
SC41669-05 (SB-5/2-4)
SC41669-06 (SB-6/7-9)
SC41669-07 (SB-7/13-15)
SC41669-08 (SB-8/2-4)
SC41669-09 (SB-9/13-15)
SC41669-10 (SB-10/10-12)
SC41669-11 (SB-11/2-4)
SC41669-12 (SB-12/1-3)

1719497

Semivolatile Organic Compounds by GC

1719497-BLK1
1719497-BS1
1719497-BSD1
SC41669-13 (SB-13/4-5)

1719503

Volatile Organic Compounds

1719503-BLK1
1719503-BS1
1719503-BSD1
SC41669-02 (SB-2/13-15)
SC41669-06 (SB-6/7-9)
SC41669-07 (SB-7/13-15)
SC41669-09 (SB-9/13-15)
SC41669-10 (SB-10/10-12)
SC41669-12 (SB-12/1-3)
SC41669-14 (Trip Blank)

1719513

Volatile Organic Compounds

1719513-BLK1
1719513-BS1
1719513-BSD1
1719513-MS1
1719513-MSD1
SC41669-03 (SB-3/10-12)
SC41669-11 (SB-11/2-4)
SC41669-14RE1 (Trip Blank)

1719572

Volatile Organic Compounds

1719572-BLK1
1719572-BS1
1719572-BSD1
SC41669-01RE1 (SB-1/3-5)
SC41669-04 (SB-4/2-4)
SC41669-05 (SB-5/2-4)
SC41669-08 (SB-8/2-4)

1719613

General Chemistry Parameters

1719613-DUP1
1719613-DUP2
SC41669-01 (SB-1/3-5)
SC41669-02 (SB-2/13-15)
SC41669-03 (SB-3/10-12)
SC41669-04 (SB-4/2-4)
SC41669-05 (SB-5/2-4)
SC41669-06 (SB-6/7-9)
SC41669-07 (SB-7/13-15)
SC41669-08 (SB-8/2-4)
SC41669-09 (SB-9/13-15)
SC41669-10 (SB-10/10-12)
SC41669-11 (SB-11/2-4)
SC41669-12 (SB-12/1-3)
SC41669-13 (SB-13/4-5)

1719678

Volatile Organic Compounds

1719678-BLK1
1719678-BS1
1719678-BSD1
SC41669-04RE1 (SB-4/2-4)

S708708

Volatile Organic Compounds

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S708921

Semivolatile Organic Compounds by GCMS

S708921-CAL1
S708921-CAL2
S708921-CAL3
S708921-CAL4
S708921-CAL5
S708921-CAL6
S708921-CAL7
S708921-CAL8
S708921-CAL9
S708921-CALA
S708921-ICV1
S708921-LCV1
S708921-LCV2
S708921-LCV3
S708921-TUN1

S710170

Semivolatile Organic Compounds by GC

S710170-CAL1
S710170-CAL2
S710170-CAL3
S710170-CAL4
S710170-CAL5
S710170-CAL6
S710170-CAL7
S710170-CAL8
S710170-CAL9
S710170-CALA
S710170-CALB
S710170-CALC
S710170-CALD
S710170-CALE
S710170-CALF
S710170-CALG
S710170-CALH
S710170-CALI
S710170-CALJ
S710170-CALK
S710170-CALL
S710170-CALM
S710170-CALN
S710170-CALO
S710170-CALP
S710170-CALQ
S710170-CALR
S710170-CALS
S710170-CALT
S710170-CALU
S710170-ICV1
S710170-ICV2
S710170-ICV3
S710170-ICV4
S710170-ICV5
S710170-ICV6
S710170-LCV1
S710170-LCV2
S710170-LCV3
S710170-LCV4
S710170-LCV5
S710170-LCV6

S710171

Volatile Organic Compounds

S710171-CAL1
S710171-CAL2
S710171-CAL3
S710171-CAL4
S710171-CAL5
S710171-CAL6
S710171-CAL7
S710171-CAL8
S710171-CAL9
S710171-ICV1
S710171-LCV1
S710171-LCV2
S710171-LCV3
S710171-TUN1

S710205

Volatile Organic Compounds

S710205-CCV1
S710205-TUN1

S710206

Volatile Organic Compounds

S710206-CCV1
S710206-TUN1

S710248

Volatile Organic Compounds

S710248-CCV1
S710248-TUN1

S710268

Semivolatile Organic Compounds by GCMS

S710268-CCV1
S710268-TUN1

S710272

Semivolatile Organic Compounds by GCMS

S710272-CCV1
S710272-TUN1

S710273

Semivolatile Organic Compounds by GC

S710273-CCV1
S710273-CCV2
S710273-CCV3
S710273-IBL1
S710273-IBL2
S710273-IBL3

S710277

Semivolatile Organic Compounds by GC

S710277-CCV1
S710277-CCV2
S710277-IBL1
S710277-IBL2

S710293

Semivolatile Organic Compounds by GCMS

S710293-CCV1
S710293-TUN1

S710294

Semivolatile Organic Compounds by GCMS

S710294-CCV1
S710294-TUN1

S710300

Volatile Organic Compounds

S710300-CCV1
S710300-TUN1