



MOVE YOUR ENVIRONMENT FORWARD

PHASE II

ENVIRONMENTAL SITE ASSESSMENT

Monterey Correctional Facility

2150 Evergreen Hill Road
Beaver Dams, New York 14812-9718

Prepared For:

NYSDOCCS Facilities Planning & Development (FP&D)
1220 Washington Avenue
Albany, NY 12226-2050

OGS # SA373, Project SA347, Work Order 10
Spill #1407419

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Issued On: March 10, 2015



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General Information

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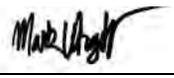
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This report is true and accurate to the best of the undersigned consultant's knowledge.

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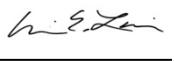


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1.0 **SUMMARY**

In August 2014, HRP Associates, Inc. (HRP) was retained to complete a Phase II Environmental Site Assessment (Phase II ESA) of the subject property, NYSDOCCS Monterey, located at 2150 Evergreen Hill Road in the Town of Beaver Dams, Schuyler County, New York (Figures 1 & 2). The proposed Phase II ESA included the installation of up to thirty-nine (39) soil borings, eight (8) of which were to be converted into temporary monitoring wells and the collection and analysis of select soil and groundwater samples. The remainder of this report discusses the project background, field activities, findings/conclusions, as well as, HRP's recommendations.

2.0 BACKGROUND

HRP completed a Phase I Environmental Site Assessment of the subject property, located at NYSDOCCS Monterey Correctional Facility, Beaver Dams, New York in December of 2013. The following data gaps were identified during the Phase I which interfered with HRP's ability to identify Recognized Environmental Conditions (REC's):

- No documentation (i.e. sample results, UST closure reports) related to the removal or closure of seven (7) petroleum USTs (1-GAS, 2-GAS, GEN, GYM-A, MNT, PP1, and PP2) was available to HRP for review.
- No information (i.e. location or service schedule) was available regarding the suspected oil/water separator located outside of the maintenance building. This feature has the potential to impact the subject property due to the processing of oil and/or hazardous materials.

Based on the findings, HRP suggested a Phase II investigation be conducted, which was authorized by NYSDOCCS on August 26, 2014. The Phase II investigation was conducted to determine if soil and/or groundwater has been impacted by the historical use of seven (7) underground ground storage tanks (USTs) and the suspected use of an oil/water separator onsite

3.0 **FIELD ACTIVITIES**

3.1 **Utility Markout**

Prior to conducting any intrusive subsurface activities, HRP contacted the Underground Facilities Protection Organization who completed a utility mark out of the site (ticket # 10064-542-152). All utilities were cleared prior to the commencement of field activities.

3.2 **Ground Penetrating Radar Survey and Site Plan Review**

In order to identify the locations of the former USTs and to clear boring locations of underground utilities, HRP reviewed available site plans onsite and conducted a ground penetrating radar (GPR) survey. The GPR survey was conducted in the area of the maintenance building, the power plant, the administration building and the gym. Areas included in the GPR survey are depicted on Figure 2.

The GPR survey was conducted by Subsurface Informational Survey, Inc. (SIS) on October 13, 2014. GPR is a non-destructive and non-intrusive geophysical exploration technique that uses radar waves to detect subsurface objects, such as USTs, fill lines and return lines. The GPR is also capable of detecting discontinuities in the subsurface materials indicative of excavated and backfilled areas, such as those associated with possible UST graves.

A Subsurface Interface Radar System (SIR-3000), manufactured by Geophysical Survey Systems Inc., coupled with a 400 MHz antenna was used to provide real time data during the survey. The unit was equipped with a model #38 video display microprocessor controlled module. This module converted the Subsurface Interface Radar data to a color video which is displayed on a self-contained monitor.

Locations for the GPR survey were based on the reported locations of historic USTs and suspected oil/water separator, from interviews with site personnel and observations in the field. All anomalies identified during the GPR survey were marked out in the field.

Results of the GPR survey are discussed in Section 4.0 and the GPR survey report is included as Appendix A.

3.3 **Subsurface Investigation – Soil Borings**

To evaluate the condition of site soils and groundwater, HRP and Zebra Environmental (Zebra) mobilized to the site on October 14 through 16, 2014 and installed a total of thirty-three (33) soil borings (referred to as SB-1 through SB-33), and collected representative soil and groundwater samples using an track-mounted Geoprobe 54DT unit. Soil borings and groundwater sampling locations were completed in the areas of the former USTs and oil/water separator, which were divided into seven (7) areas of concern (AOCs) identified as AOC-1 through AOC-7. The specific

locations of each boring were determined based on the site plans, GPR survey, field observations and the presumed direction of groundwater flow.

The, AOCs, soil boring and ground water sampling locations are shown on Figure 3 and are summarized below.

AOCs & USTs	Soil Boring ID	Boring Locations
AOC-1 (1 GAS & 2 GAS)	SB-1 through SB-8	In area of the reported location of historic USTs 1 GAS and 2 GAS located on the west side of the Administration Building.
AOC-2 (PP-1 & PP-2)	SB-9 through SB-13	In area of a suspected UST grave observed during the GPR. The suspected UST grave is located to the south of the existing UST and is suspected to be related to the Power Plant suspected to be (PP-1 or PP-2).
	SB-16 through SB-20	In area of a suspected UST grave observed during the GPR. The suspected UST grave is located to the east of the existing UST and is suspected to be related to the Power Plant (PP-1 or PP-2).
AOC-3 (existing fuel oil UST)	SB-14 through SB-15	In the area around the existing fuel-oil UST.
AOC-4 (UST GEN)	SB-21 through SB-22	In the area downgradient of where a UST was observed on the reviewed site plans near the back-up generator. Suspected to be former UST GEN.
AOC-5 (UST MNT)	SB-23 through SB-28	In the area downgradient of where a UST was observed on the reviewed site plans near the Maintenance Building. Suspected to be former UST MNT.
AOC-6	SB-29	In the area of the oil and water separator.
AOC-7 (UST GYM-A)	SB-30 through SB-33	In area of the reported location of historic UST GYM-A located on the north side of the Gym Building.

During the subsurface investigation composite soil samples were collected by advancing a four foot long Macro Core sampler. Upon collection, each soil sample was examined in the field for physical evidence of contamination (i.e., odor, staining) and subjected to a headspace analysis for the presence of gross volatile organics via a photoionization detector (PID) equipped with a 10.6 eV bulb. The collected soil samples were placed in a labeled jar, and stored on ice in a cooler for preservation. Decontamination procedures (i.e., wash with soap and tap water) were employed between samplings to minimize cross-contamination. Each soil boring was backfilled with the removed soil and/or bentonite chips upon completion of soil/groundwater sampling. Soil boring

logs describing the geologic conditions and PID screening results were maintained in the field, and are included in Appendix C.

Based upon sample location and observation the following soil samples were selected for laboratory analysis:

Soil Sample ID	Sample Depth (ft bg)	Sample Justification
SB-2	10-11	Presumably downgradient of historic UST 1 GAS and 2 GAS, sample collected from saturation zone (perched aquifer).
SB-3	8-10	Presumably downgradient of historic UST 1 GAS and 2 GAS, sample collected from saturation zone (perched aquifer).
SB-4	7-8	Presumably downgradient of historic UST 1 GAS and 2 GAS, sample collected from saturation zone (perched aquifer).
SB-5	12-13	Presumably downgradient of historic UST 1 GAS and 2 GAS, sample collected from saturation zone (perched aquifer).
SB-11	5-6	Presumably, downgradient of historic UST PP-1 or PP-2 sample collected at depth of highest PID reading.
SB-13	5-6	Presumably, crossgradient of historic UST PP-1 or PP-2 sample collected at depth of highest PID reading.
SB-14	8-10	Presumably, downgradient of historic UST PP-1 or PP-2 sample collected at depth of highest PID reading.
SB-16	8-9	Presumably, downgradient of historic UST PP-1 or PP-2 sample collected at depth of highest PID reading.
SB-20	10-11	Presumably, crossgradient of historic UST PP-1 or PP-2 sample collected at depth of highest PID reading.
SB-22	10-11	Presumably, downgradient of historic UST GEN.
SB-23	14-15	Presumably, downgradient of historic UST MNT sample collected at depth of highest PID reading.
SB-26	6-8	Presumably, downgradient of historic UST MNT sample collected from a saturation zone (perched aquifer).
SB-28	8-9	Presumably, downgradient of the oil and water separator sample collected from a saturation zone (perched aquifer).
SB-31	12-13	Presumably, downgradient of historic UST GYM A.
SB-33	6-8	Presumably, crossgradient of historic UST GYM A.
SB = Soil boring Ft = feet bg = below grade		

The soil samples were analyzed for Volatile Organic Compounds (VOCs) via USEPA Method 8260B, STARS Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270C and 8 RCRA Metals (Total) via USEPA Method 6010.



3.4 Site Investigation - Groundwater Sampling

To screen groundwater quality beneath the subject property, grab groundwater samples were collected from six (6) of the thirty-three (33) soil borings. After the installation of the soil borings a one inch diameter #10-slotted PVC pipe and solid riser was installed into the groundwater table and allowed to fill with groundwater. It should be noted that HRP's Phase II proposal included the collection of up to eight (8) groundwater samples, however, because groundwater was not encountered in the area of historic USTs MNT (AOC-5) and GYM-A (AOC-7) groundwater samples were not collected in these areas.

Groundwater samples were collected using new polyethylene tubing equipped with a check valve. Groundwater samples were collected into appropriate laboratory supplied containers and stored on ice in a cooler. The following groundwater samples were submitted for laboratory analysis:

Groundwater Sample ID	Sample Justification
SB-6	Presumably downgradient of historic USTs 1 GAS and 2 GAS.
SB-8	Presumably downgradient of historic USTs 1 GAS and 2 GAS.
SB-11	Presumably downgradient of historic USTs PP-1 and PP-2
SB-20	Presumably downgradient of historic USTs PP-1 or PP-2
SB-21	Presumably downgradient of historic UST GEN
SB-29	Presumably downgradient of oil and water separator
SB = Soil boring	

The groundwater samples were analyzed for VOCs via USEPA Method 8260B, STARS SVOCs via USEPA Method 8270C & RCRA Metals (via USEPA Method 6010).

4.0 FINDINGS

4.1 Ground Penetrating Radar Survey and Site Plan Review

Prior to the GPR survey, site plans provided by the DOCCS engineer were reviewed by HRP. Historic USTs near the Power Plant, the Maintenance building, and the back-up generator were observed on the site plans. These are presumed to be USTs PP-1 and PP-2, MNT and GEN, respectively. The locations of these USTs are indicated on Figure 3 and photographs of the site plans can be found in the Appendix B.

The GPR survey was conducted in the areas suspected to contain the historic USTs: 1-GAS, 2-GAS, GEN, GYM-A, MNT, PP1, and PP2 which is the area around the administration building (Building 1), the kitchen/mess/power plant building (Building 2), the maintenance building (Building 5), the courtyard surrounded by the dormitory buildings (Buildings 3 and 37) and the recreation building (Building 10). No limiting conditions were noted.

Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. However, discontinuous surface materials indicative of an UST grave were detected in the area where the USTs suspected to be PP-1 and PP-2 were shown on the site plans. The penetration of the GPR system reached a depth of approximately 10 feet below grade. No UST graves were detected for the five USTs of unknown locations. Results of the GPR survey are provided throughout the report and included as Appendix A.

4.2 Lithology

During the subsurface investigation, HRP noted that shallow (2 to 4 ft bg) overburden soils at the site consisted predominantly of compacted sand and gravel with some silt. Deeper overburden soils consisted of fine angular gravel in a silt and clay matrix. Road base fill was observed in borings installed in paved areas at depths of 0 to 2 ft bg. It should be noted, bedrock was not encountered during the course of this investigation.

4.3 Groundwater

Based on observations made during the subsurface investigation, the shallow groundwater onsite consists of a discontinuous perched aquifer. Groundwater was not encountered in all borings and when groundwater was encountered, it was often limited to thin (~1 foot) layers of coarse gravel layer within highly compact mostly dry soils above and below (perched aquifer). Based on the topography the groundwater in the shallow, perched, overburden aquifer at the Site is presumed to flow to the west-northwest.

4.4 Field Screening

Soil Samples

Evidence of gross contamination was observed in the soil samples collected from two of the soil borings. Odors associated with petroleum contamination were observed in soil samples collected from SB-16 at a depth of six to thirteen (6-13) feet below grade and SB-20 at a depth of eight to twelve (8-12) feet below grade. Petroleum staining was observed on the soil sample collected from SB-16 at a depth of eight to twelve (8-12) feet below grade. No obvious evidence of contamination, such as staining or odors, were noted on any of the other soil samples collected.

All soil samples collected were screened with the PID, for the presence of gross volatile organics. PID readings ranging from 4.1 to 455 ppm were observed in seven (7) of the thirty-three (33) soil borings. All other PID readings were 0.0 ppm. PID readings above 0.0 ppm are summarized on the table below.

Soil Sample ID	Sample Depth (ft bg)	PID Readings (ppm)
SB-11	5-8	17.1
	8-10	4.7
SB-12	0.25-4	12.8
SB-13	5-6	147
	6-8	25
	8-10	6.0
	10-12	4.3
SB-14	8-9	278
	9-10	30
SB-16	6-8	255
	8-9	455
	9-10	249
	10-11	172
	11-12	180
	12-13	135
	13-14	33.7
	14-15	16.1
SB-20	8-9	33
	9-10	48
	10-11	75
	11-12	171
	12-13	50
	13-14	68
	14-15	25
	15-16	9.6
	16-17	0.7

Soil Sample ID	Sample Depth (ft bg)	PID Readings (ppm)
SB-23	12-13	4.1
SB = Soil boring bg = below grade PID = Photoionization detector ppm= Parts per million		

Soil boring logs are presented in Appendix C.

4.5 Analytical Results

As previously stated, fifteen (15) soil samples and six (6) groundwater samples were submitted under chain of custody to a state-certified laboratory for analysis. The analytical results for the soil and groundwater samples are summarized in Tables 1 and 2; and are discussed below. The laboratory results are included in Appendix D.

AOC-1: Historic USTs 1-GAS and 2-GAS

Four (4) soil samples (SB-2 (10'-11'), SB-3 (8'-10'), SB-4 (7'-8') and SB-5 (12'-13')) were collected from the reported area of Historic USTs 1-GAS and 2-GAS. No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) outlined in Part 375-6 and CP-51: Soil Cleanup Guidance (Fuel Oil and Gasoline Contaminated).

Two (2) groundwater samples (SB-6 and SB-8) were collected in this area. No VOCs or STARS SVOCs were detected above NYSDEC Class GA Criteria (GA Criteria) in either sample. In groundwater sample SB-6, three RCRA 8 Metals (total) were detected at concentrations slightly above GA Criteria (barium, chromium and lead). The detected concentration of barium (1.90 mg/l), exceeds the GA Criteria of 1 mg/l. The detected concentration of chromium (0.0768 mg/l) exceeds the GA Criteria of 0.05 mg/l. The detected concentration of lead (0.0454 mg/l) exceeds the GA Criteria of 0.025 mg/l.

In groundwater sample SB-8, four (4) 8 RCRA metals (total) were detected at concentrations slightly above GA Criteria (arsenic, barium, chromium and lead). The detected concentrations of arsenic (0.0545 mg/l) and chromium (0.240 mg/l) exceeds the GA Criteria of 0.05 mg/l. The detected concentration of barium (2.98 mg/l) exceeds the GA Criteria of 1 mg/l. The detected concentration of lead (0.121 mg/l) exceeds the GA Criteria of 0.025 mg/l.

AOC-2 Historic USTs Suspected to be PP-1 and PP-2

Four (4) soil samples (SB-11 (5'-6'), SB-13 (5'-6'), SB-16 (8'-9'), and SB-20 (10'-11')) were collected from this area. No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in three of these samples.

However, in soil sample SB-16 (8'-9') one (1) VOC, ethylbenzene, was detected at a concentration (1,010 ug/kg) that slightly exceeds the Unrestricted Use, Protection of Groundwater and CP-51 SCOs (1,000 ug/kg). In one soil sample, SB-20 (10'-11'), one (1) RCRA 8 Metal, Arsenic (14.1 mg/kg), was detected slightly above the Unrestricted Use SCO (13 mg/kg), but well below the Protection of Groundwater SCO (16 mg/kg).

Two (2) groundwater samples (SB-11 and SB-20) were collected in this area. In groundwater sample SB-11, eight (8) STARS SVOCs were detected at concentrations above GA Criteria. The detected concentrations of benzo (a) anthracene (42.9 ug/k), benzo (b) fluoranthene (70.9 ug/l), benzo (k) fluoranthene (26.2 ug/l), chrysene (50.2 ug/l) and indeno (1,2,3-cd) pyrene (38.5 ug/l) all exceed the GA Criteria of 0.002 ug/l. The detected concentrations of fluoranthene (113 ug/l) and pyrene (91.6 ug/l) exceed the GA Criteria of 50 ug/l. The detected concentration of benzo (a) pyrene (51.4 ug/l) exceeds the GA Criteria for benzo (a) pyrene, which is 0.0 ug/l.

Five (5) of the eight (8) 8 RCRA metals (total) were detected at concentrations slightly above GA Criteria for sample SB-11. The detected concentration of mercury (0.00179 mg/l), exceeds the GA Criteria of 0.0007 mg/l. The detected concentrations of arsenic (1.11 mg/l) and chromium (4.21 mg/l) exceed the GA Criteria of 0.05 mg/l. The detected concentration of barium (18.5 mg/l) exceeds the GA Criteria of 1 mg/l. The detected concentration of lead (2.34 mg/l) exceeds the GA Criteria of 0.025 mg/l. No VOCs were detected above GA Criteria within sample SB-11.

In groundwater sample SB-20, four (4) VOCs were detected at concentrations above GA Criteria. The detected concentrations of ethylbenzene (9.6 ug/l), isopropylbenzene (12.8 ug/l), n-propylbenzene (13.4 ug/l) and sec-butylbenzene (12.6 ug/l) all exceed the GA Criteria of 5 ug/l. One (1) STARS SVOC, acenaphthene (12.9 ug/l), was detected at a concentration slightly above GA Criteria (5.3 ug/l).

Five (5) of the RCRA 8 Metals (total) were detected at concentrations slightly above GA Criteria for SB-20. The detected concentration of mercury (0.00158 mg/l) exceeds the GA Criteria of 0.0007 mg/l. The detected concentration of arsenic (2.03 mg/l) and chromium (2.92 mg/l) exceed the GA Criteria of 0.05 mg/l. The detected concentration of barium (36.4 mg/l) exceeds the GA Criteria of 1 mg/l. The detected concentration of lead (23.42 mg/l) exceeds the GA Criteria of 0.025 mg/l.

AOC-3 Current UST

One soil sample (SB-14 (8'-10')) was collected from this area. No VOCs or STARS SVOCs were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51).

In soil sample SB-14 (8'-10') one (1) RCRA 8 metal, arsenic, was detected at a concentration (19.7 mg/kg) that slightly exceeds the Protection of Groundwater and Unrestricted Use SCOs (16 mg/kg and 13 mg/kg, respectively).

Groundwater was not encountered in AOC-3.

AOC-4: Historic UST Suspected to be GEN

One (1) soil sample (SB-22 (10'-11')) was collected from this area. No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51).

One (1) groundwater sample (SB-21) was collected from this area. No VOCs were detected above GA Criteria. Five (5) STARS SVOCs were detected at concentrations above GA Criteria (. The detected concentration of acenaphthene (62.9 ug/l), exceeds the GA Criteria of 5.3 ug/l. The detected concentrations of anthracene (66.9 ug/l), fluorene (162 ug/l), phenanthrene (110 ug/l) and pyrene (93.4 ug/l) exceed the GA Criteria of 50 ug/l.

Five (5) of the 8 RCRA metals (total) were detected at concentrations slightly above GA Criteria for SB-21. The detected concentration of mercury (0.0102 mg/l) exceeds the GA Criteria of 0.0007 mg/l. The detected concentrations of arsenic (2.37 mg/l) and chromium (6.95 mg/l) exceed the GA Criteria of 0.05 mg/l. The detected concentration of barium (43.6 mg/l) exceeds the GA Criteria of 1 mg/l. The detected concentration of lead (4.88 mg/l) exceeds the GA Criteria of 0.025 mg/l.

AOC-5: Historic UST Suspected to be MNT – Analytical Results

Two (2) soil samples (SB-23 (14'-15') and SB-26 (6'-8')) were collected from this area. In soil sample SB-23 (14'-15') one (1) 8 RCRA metal (total), arsenic, was detected at a concentration (16.6 mg/kg) that exceeds the Protection of Groundwater and Unrestricted Use SCOs (16 mg/kg and 13 mg/kg respectively). No VOCs or STARS SVOCs were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in this sample. In soil sample SB-26 (6'-8') no VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51).

Groundwater was not encountered in AOC-5.

AOC-6: Oil/Water Separator – Analytical Results

One (1) soil sample (SB-28 (8'-9')) was collected from this area. No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51).

One (1) groundwater sample (SB-29) was collected from this area. No VOCs or STARS SVOCs were detected above GA Criteria. Four (4) RCRA 8 Metals (total) were detected at concentrations slightly above GA Criteria. The detected concentrations of arsenic (0.528 mg/l) and chromium (1.47 mg/l) exceed the GA Criteria of 0.05 mg/l. The detected concentration of barium (5.44 mg/l) exceeds the

GA Criteria of 1 mg/l. The detected concentration of lead (1.06 mg/l) exceeds the GA Criteria of 0.025 mg/l.

AOC-7: Historic UST GYM-A – Analytical Results

Two (2) soil samples (SB-31 (12'-13') and SB-33 (6'-8')) were collected from the reported area of Historic UST 1GYM-A. No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in either soil sample collected from this area.

Groundwater was not encountered in AOC-7.

4.6 Spill Reporting & Soil & Groundwater Management Plan

Odors associated with petroleum contamination were observed in two soil borings installed in AOC-2 at depths ranging from 6 to 8 feet below grade. Petroleum staining was also observed on one soil sample collected from a depth of 8 to 12 feet below grade (SB-16) in this area. Elevated PID readings were also detected in multiple soil borings installed in AOC-2 ranging from 0.7 ppm to 455 ppm. In addition, a petroleum sheen was noted on one groundwater sample (SB-20) in this area.

In addition, analytical results from soil and groundwater samples collected in AOC-2 and AOC-4 the locations of the Historic USTs suspected to be PP-1 and PP-2 and current UST, respectively, exhibited concentrations of VOCs, SVOCs and metals above NYSDEC Criteria and indicate an environmental impact to the soil and groundwater in the vicinity of these AOCs.

Due to the elevated concentrations of select VOCs and metals in the soils, as well as several VOCs and SVOCs detected in the groundwater in AOC-2 and elevated VOCs detected in the groundwater in AOC-4, a spill was reported to the NYSDEC on November 17, 2014 and Spill #1407419 was assigned to the site.

HRP provided the NYSDEC with soil and groundwater results for their review. The NYSDEC Case Manager concluded there was no need for active remediation. However, to facilitate the closure of Spill #1407419, the NYSDEC requested HRP prepare a Soil and Groundwater Management Plan (SGMP). The SGMP provides a detailed description to outline for the current and future owner/operator the site history, the extent of petroleum impacted soils and groundwater and who to contact/what to do if any impacted soil and/or groundwater is encountered in the future. The SGMP is included in Appendix E.

5.0 CONCLUSIONS

Ground Penetrating Radar Survey and Site Plan

- A review of available site plans was conducted by HRP on October 13, 2014. During this review HRP, learned the location of four previously unknown UST locations including two USTs near the power plant (thought to be PP-1 and PP-2), one UST near the maintenance building (thought to be MNT) and one UST near the back-up generator (thought to be GEN).
- The GPR survey was conducted on the area of the subject property suspected to contain the historic USTs: 1-GAS, 2-GAS, GEN, GYM-A, MNT, PP1, and PP2 which is the area around the administration building (Building 1), the kitchen/mess/power plant building (Building 2) and the maintenance building (Building 5), and the courtyard surrounded by the dormitory buildings (Buildings 3 and 37) and the recreation building (Building 10). Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. However, discontinuous surface materials indicative of an UST grave were detected in the area where the USTs suspected to be PP-1 and PP-2 were shown on the site plans. The UST graves of the five (5) remaining USTs were not located.

AOC-1: Historic USTs 1-GAS and 2-GAS

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm for the soil samples.
- No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- No obvious evidence of gross contamination (i.e. sheen) was noted in the groundwater samples collected from this area.
- No VOCs or STARS SVOCs were detected above GA Criteria in the groundwater samples collected in this area. Although multiple metals were detected at concentrations slightly above GA Criteria in the samples collected it is likely that these concentrations are elevated due to the high amount of turbidity observed in the samples.
- Based on these results, there was no evidence of a petroleum release in the area of historic USTs 1-GAS and 2-GAS.

AOC-2: Historic USTs Suspected to be PP-1 and PP-2

- Odors associated with petroleum contamination were observed in soil samples collected from SB-16 at a depth of six to thirteen (6-13) feet below grade and SB-20 at a depth of eight to twelve (8-12) feet below grade. Petroleum staining was observed on the soil sample collected from SB-16 at a depth of eight to twelve (8-12) feet below grade. The soil samples collected were screened with a PID and readings greater than 0.0 ppm were detected in five (5) of the ten (10) soil borings installed in this area.
- STARS SVOCs were not detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- One VOC was detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in one soil sample collected in the this area.
- Evidence of contamination (i.e. petroleum sheen) was noted in one (SB-20) of the two groundwater samples collected from this area.
- VOCs, STARS SVOCs and 8 RCRA metals (total) were detected above GA Criteria in both groundwater samples collected in this area.
- Based on these results and field observations, there is evidence of a petroleum release in the area of the historic USTs suspected to be PP-1 and PP-2. The results indicate the release was historical in nature and did not recently occur.
- Based on these findings, a spill was reported to the NYSDEC on October 17, 2014. Spill #1407419 was assigned to the property.

AOC-3: Current UST

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm, within the two soil samples with the exception of SB-14 where PID readings ranged from 30 to 278 ppm.
- VOCs and STARS SVOCs were not detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- One metal (total) was detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the one soil sample collected in the this area.
- Based on these results, there is little to no evidence of a petroleum release in the area of the current UST.

AOC-4: Historic UST Suspected to be GEN

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm for the soil samples.
- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil sample collected in the this area.
- No obvious evidence of gross contamination (i.e. sheen) was noted in the groundwater samples collected from this area..
- No VOCs were detected above GA Criteria in the groundwater sample collected in this area. Five (5) STARS SVOCs were detected at concentrations slightly above GA Criteria in the samples collected from this area. Although five (5) of the eight (8) RCRA 8 Metals (total) were detected at concentrations slightly above GA Criteria in the sample collected from this area, however, it is likely that these concentrations are elevated due to the high amount of turbidity observed in the sample.
- Based on the results and field observations, there is evidence of a petroleum release in the area of the historic UST suspected to be the GEN UST. The results indicate the release was historic in nature and did not recently occur.
- Based on these findings, a spill was reported to the NYSDEC on October 17, 2014. Spill #1407419 was assigned to the property.

AOC-5: Historic UST Suspected to be MNT

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm for the soil samples.
- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in this area, with one exception of one metal, arsenic, which was detected above Protection of Groundwater.
- Based on these results, there was no evidence of a petroleum release in this area.
- No groundwater was encountered in this AOC, as such, no groundwater samples were collected.

AOC-6: Oil/Water Separator

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm for the soil samples.

- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil sample collected in this area.
- No VOCs or STARS SVOCs were detected above GA Criteria in the groundwater sample collected in the boring downgradient of the oil/water separator. Although several of the 8 RCRA metals (total) were detected at concentrations slightly above GA Criteria in the sample collected from this area it is likely that these concentrations are elevated due to the high amount of turbidity observed in the sample.
- Based on these results, there was no evidence of a petroleum or hazardous materials release in this area.

AOC-7: Historic UST GYM-A

- No obvious evidence of gross contamination (i.e. odors, staining) was noted in the soil samples collected from this area. All PID readings were 0.0 ppm for the soil samples.
- No VOCs, STARS SVOCs or RCRA 8 Metals were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the area of the historic UST GYM-A.
- Based on these results, there was no evidence of a petroleum release in this area.
- No groundwater was encountered in this AOC, as such, no groundwater samples were collected.

6.0 **SPILL CLOSURE & SOIL AND GROUNDWATER MANAGEMENT PLAN APPROVAL**

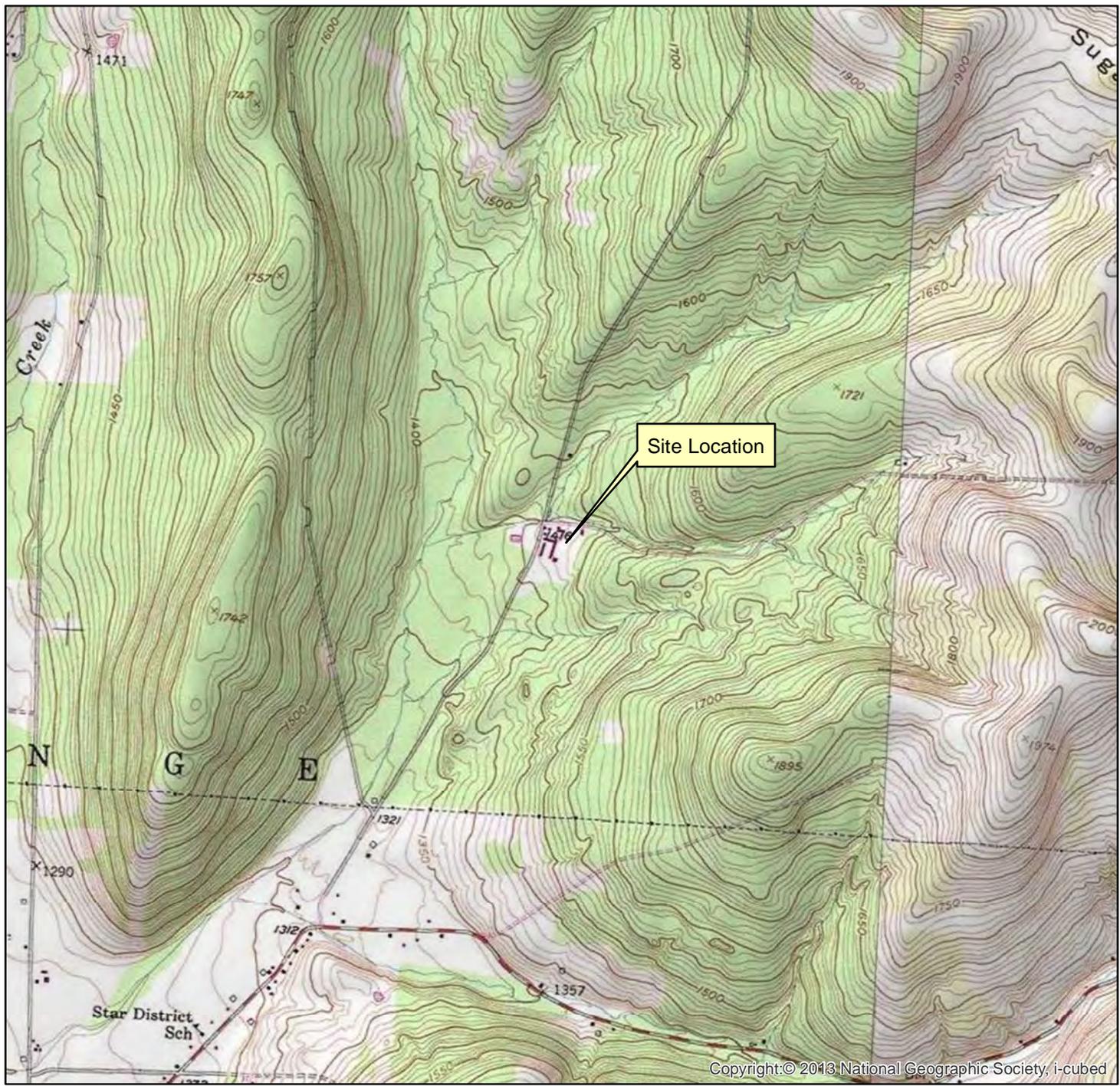
On February 26, 2015, the NYSDEC issued a letter indicating that sufficient work has been completed to remediate Spill #1407419, and as such, no further action is required. This spill has been closed and removed from the Department's active files. In addition, a SGMP was prepared and approved by the NYSDEC in February 2015. This SMPG facilitated spill closure for Spill #1407419 and is included in Appendix E.

7.0 **RECOMMENDATIONS**

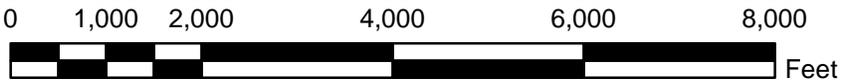
Based on HRP's findings and conversations with the NYSDEC, HRP has the following recommendations for the site:

- The SGMP detailing how to manage residual contamination needs to be followed by current and future owners of the site. The SGMP is included in Appendix E. Also, the NYSDEC would need to be notified if future site ownership changes.

FIGURES



Copyright: © 2013 National Geographic Society, i-cubed



USGS Quadrangle Information
 Quad ID: 42077-C1
 Name: Bradford, New York
 Date Rev: 1976
 Date Pub: 1979

Figure 1
Site Location
Monterey Shock
Incarceration Facility
Monterey, New York
HRP# NEW7442.P2
Scale 1" = 2,000'

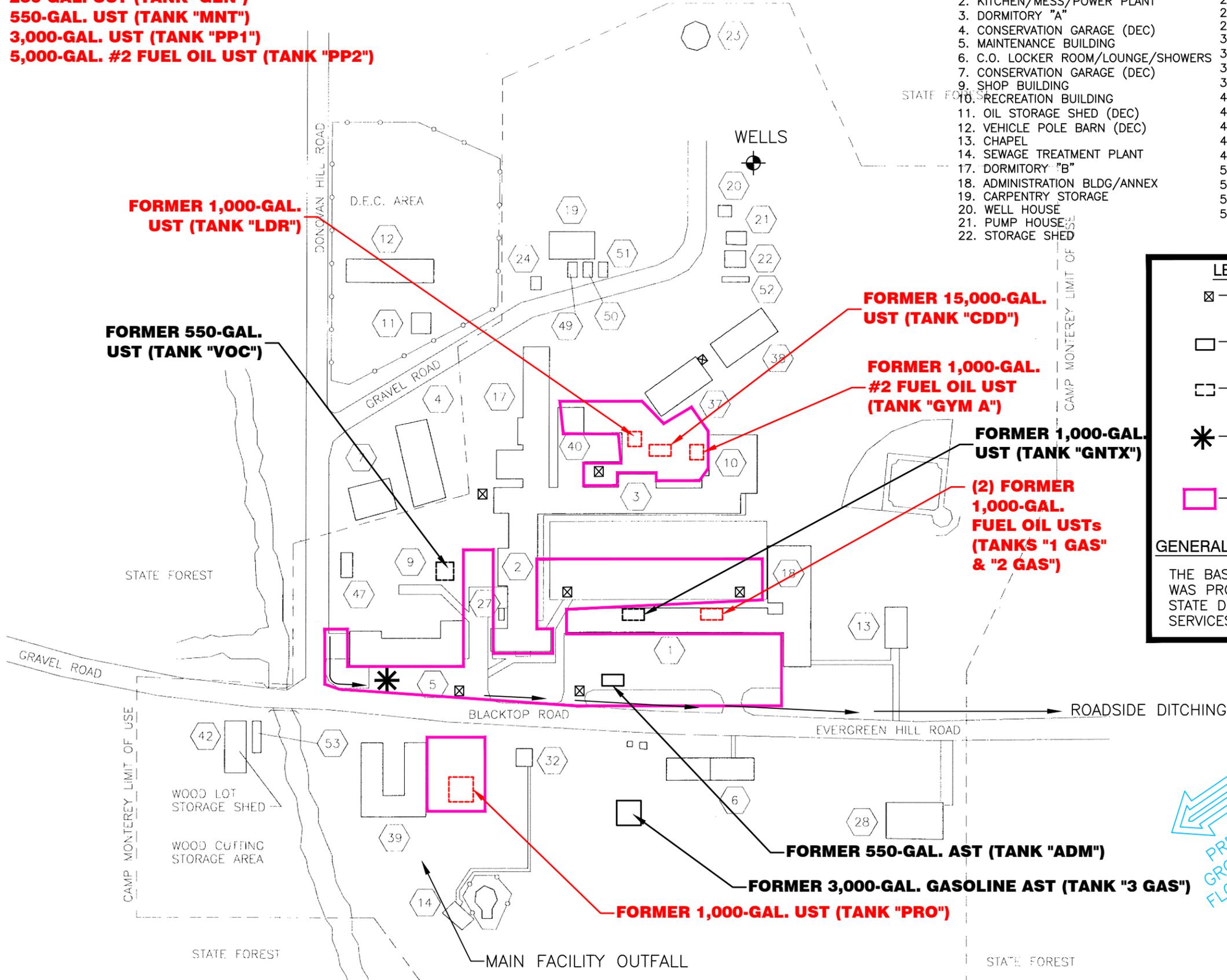


ONE FAIRCHILD SQUARE
 SUITE 110
 CLIFTON PARK, NY 12065
 (518) 877-7101
 HRPASSOCIATES.COM

DRAWING NAME: S:\Data\N\NEWYR -OGS\DOCS\EMIS\Monterey Shock\Phase II working folder\figures\20141223-V1-Fig2-Overall Site Plan.dwg LAYOUT: 11 x 17 - SSM PLOT DATE: Dec 23, 2014 - 4:57pm OPERATOR: BOB

FOUR (4) - USTs WITH UNKNOWN LOCATIONS

- 250-GAL. UST (TANK "GEN")**
- 550-GAL. UST (TANK "MNT")**
- 3,000-GAL. UST (TANK "PP1")**
- 5,000-GAL. #2 FUEL OIL UST (TANK "PP2")**



BUILDING INDEX

- | | |
|------------------------------------|-----------------------------------|
| 1. ADMINISTRATION BUILDING | 23. WATER TOWER |
| 2. KITCHEN/MESS/POWER PLANT | 24. HOSE HOUSE |
| 3. DORMITORY "A" | 27. WALK-IN COOLER |
| 4. CONSERVATION GARAGE (DEC) | 28. LOG CABIN |
| 5. MAINTENANCE BUILDING | 32. LABORATORY |
| 6. C.O. LOCKER ROOM/LOUNGE/SHOWERS | 37. DORMITORY "C" |
| 7. CONSERVATION GARAGE (DEC) | 38. DORMITORY "D" |
| 9. SHOP BUILDING | 39. EDUCATION BUILDING/PROGRAMS |
| 10. RECREATION BUILDING | 40. LAUNDRY/SHOWER ROOM |
| 11. OIL STORAGE SHED (DEC) | 41. NETWORK/ASAT BUILDING |
| 12. VEHICLE POLE BARN (DEC) | 42. STORAGE/WOOD LOT |
| 13. CHAPEL | 47. SALT/MAINTENANCE STORAGE SHED |
| 14. SEWAGE TREATMENT PLANT | 49. CONTAINER #1 8'x20' |
| 17. DORMITORY "B" | 50. CONTAINER #2 8'x20' |
| 18. ADMINISTRATION BLDG/ANNEX | 51. CONTAINER #3 8'x20' |
| 19. CARPENTRY STORAGE | 52. CONTAINER #4 8'x40' |
| 20. WELL HOUSE | 53. CONTAINER #5 8'x40' |
| 21. PUMP HOUSE | |
| 22. STORAGE SHED | |

LEGEND

- ☒ - STORM SEWER CATCH BASIN
- - ABOVEGROUND STORAGE TANK
- ▣ - UNDERGROUND STORAGE TANK
- ✱ - SUSPECTED OIL/WATER SEPARATOR
- ▭ - AREA OF GPR SURVEY

GENERAL NOTES

THE BASE MAP FOR THIS FIGURE WAS PROVIDED BY THE NEW YORK STATE DEPARTMENT OF CORRECTIONAL SERVICES.

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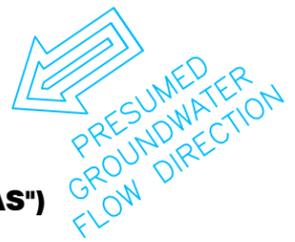


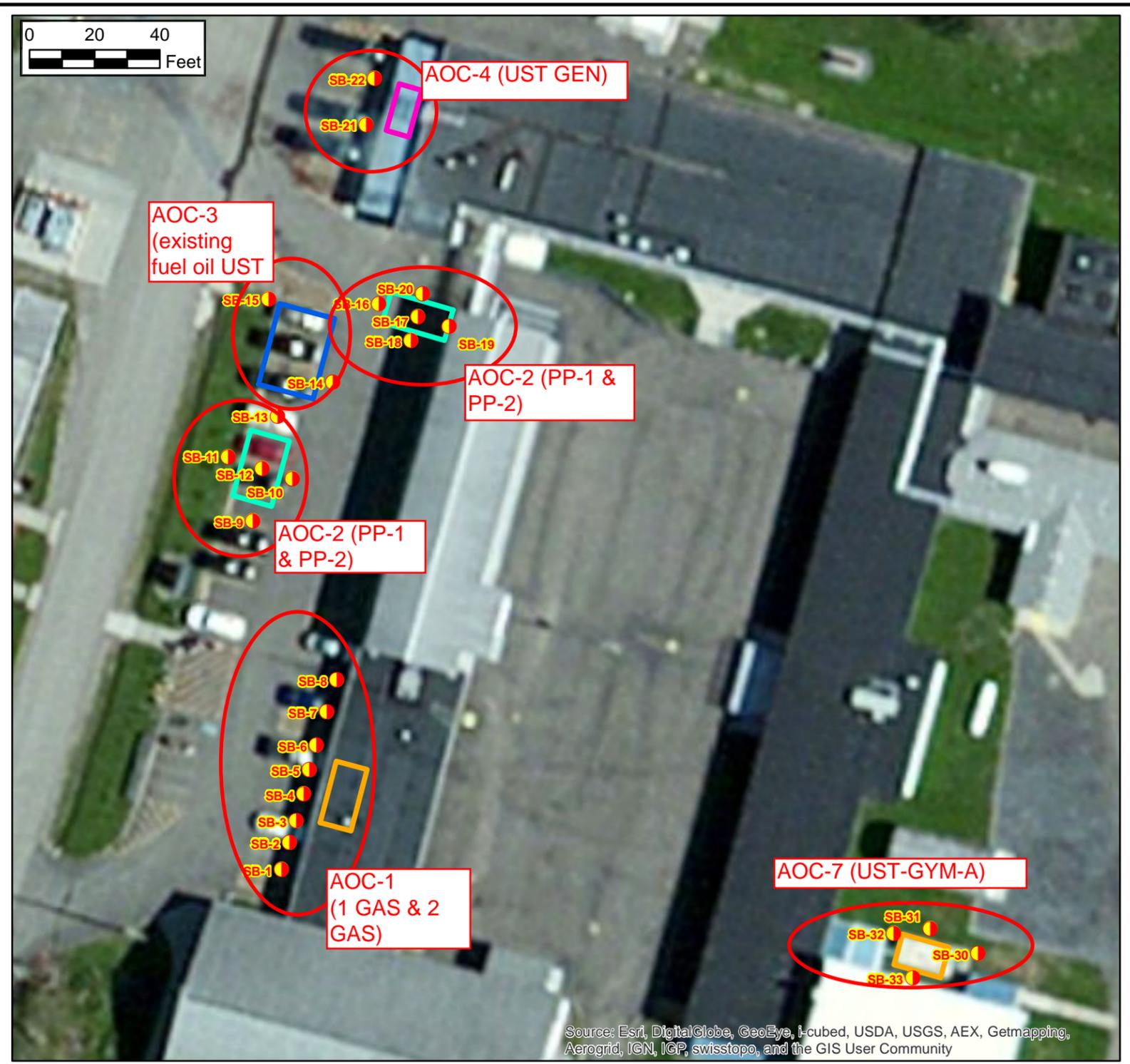
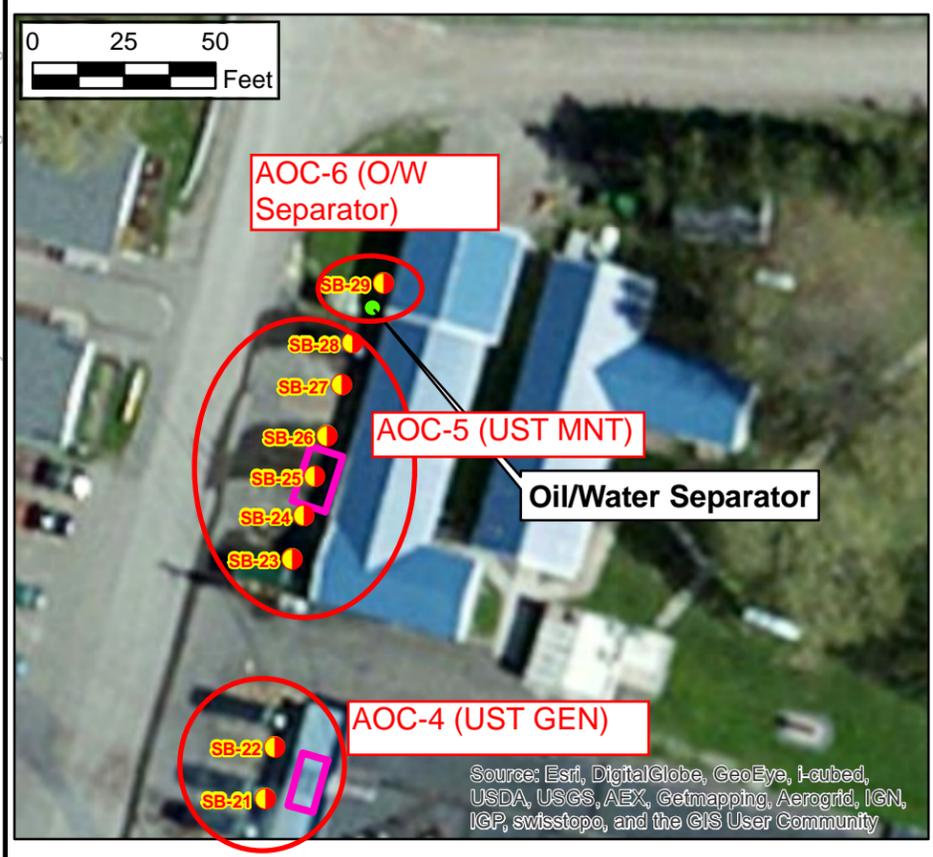
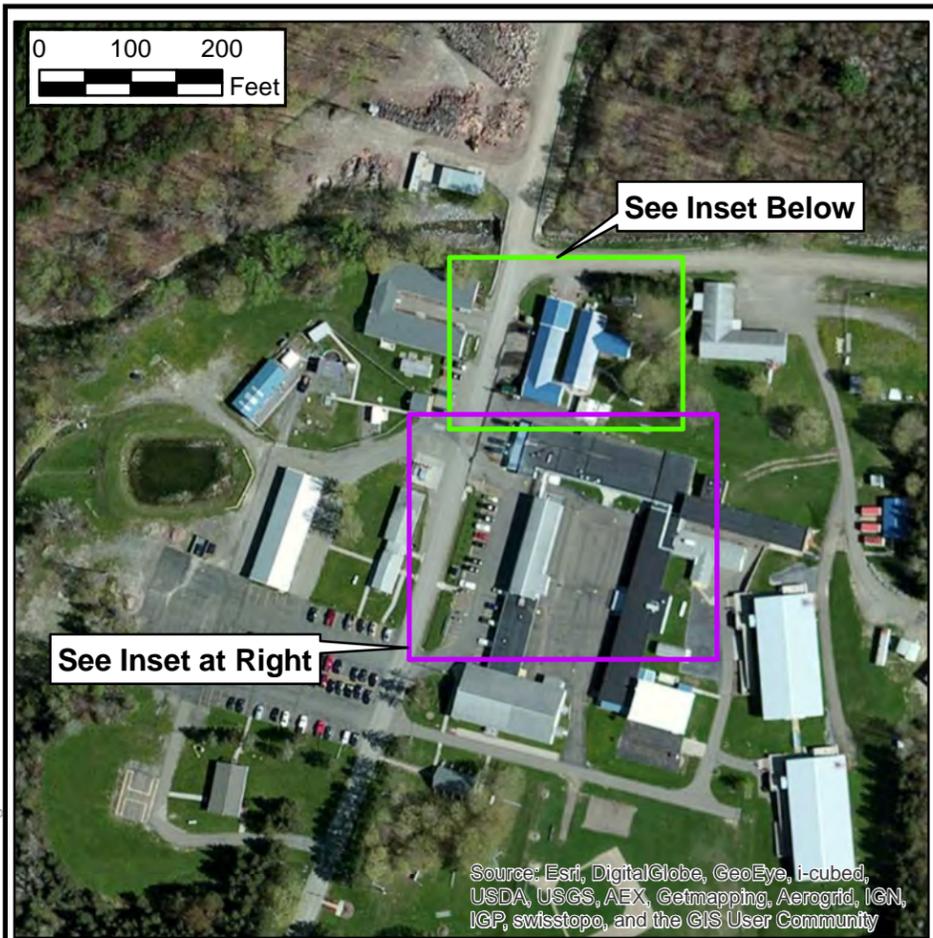
NOT TO SCALE

REVISIONS	NO.		DATE	
DESIGNED BY:	MEW		DRAWN BY:	BOB
ISSUE DATE:	10/30/2014		PROJECT NUMBER:	NEW7442.P2
			SHEET SIZE:	11"x17"
			REVIEWED BY:	CEL

OVERALL SITE PLAN
 MONTEREY SHOCK
 INCARCERATION FACILITY
 MONTEREY, NEW YORK

FIGURE
2





- Legend**
- Test Boring
 - Current UST
 - UST graves observed during GPR
 - Former UST locations identified during Phase I
 - Former UST location identified during Phase II



Revisions	No.	Date

Designed By:	MEW	Drawn By:	BOB	Reviewed By:	CEL
Issue Date:	10/30/2014	Project No:	NEW7442.P2	Sheet Size:	11X17

Locations of Test Borings and Tanks
 Monterey Shock Correctional Facility
 Monterey, New York

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TABLES

Table-1
Monterey Shock Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York
October 14-16, 2014
Soil Sample Results - Analyzed for VOCs, STARS SVOCs and RCRA 8 Metals (Total)
(Only detected constituents are listed)

Soil Boring (depth in feet)	AOC-1				AOC-2				AOC-3	AOC-4	AOC-5		AOC-6	AOC-7		375-6 SCO - Protection of Public Health Unrestricted	375-6 SCO - Protection of Groundwater	CP-51 Table 2 and 3
	SB-2 (10-11)	SB-3 (8-10)	SB-4 (7-8)	SB-5 (12-13)	SB-11 (5-6)	SB-13 (5-6)	SB-16 (8-9)	SB-20 (10-11)	SB-14 (8-10)	SB-22 (10-11)	SB-23 (14-15)	SB-26 (6-8)	SB-28 (8-9)	SB-31 (12-13)	SB-33 (6-8)			
VOCs (ug/kg)																		
1,2,4-Trimethylbenzene	ND<3.2	ND<3.6	ND<3.3	ND<3.1	ND<3.7	ND<34.9	ND<139	128 JL, D50	ND<146	ND<3.4	ND<3.1	ND<3.5	ND<4.0	ND<3.8	ND<3.4	3,600	3,600	3,600
1,2-Dichlorobenzene	ND<2.5	ND<2.8	ND<2.5	ND<2.4	ND<2.8	31.3 JL, D 50	ND<106	ND<26.3	ND<112	ND<2.6	ND<2.3	ND<2.7	ND<3.1	ND<2.9	ND<2.6	1,100	1,100	NE
Acetone	ND<27.8	ND<31.0	ND<28.1	27.7 JL	ND<31.4	ND<300	ND<1190	ND<297	ND<1260	ND<29.5	ND<26.2	ND<30.2	ND<34.6	ND<32.6	ND<29.1	50	50	NE
Ethylbenzene	ND<1.8	ND<2.0	ND<1.8	ND<1.7	ND<2.0	ND<19.1	1,010 D200	141 JL, D50	944 D200	ND<1.9	ND<1.7	ND<1.9	ND<2.2	ND<2.1	ND<1.9	1,000	1,000	1,000
Isopropylbenzene	ND<4.6	ND<5.1	ND<4.7	ND<4.4	ND<5.2	ND<49.8	1,030 D200	232 D50	810 D200	ND<4.9	ND<4.4	ND<5.0	ND<5.7	ND<5.4	ND<4.8	NE	NE	2,300
Methylene chloride	4.4 J, O01	3.6 J, O01	ND<3.2	ND<3.1	ND<3.6	ND<34.4	ND<137	ND<33.9	ND<144	ND<3.4	6.7 J, O01	4.0 J, O01	8.6 J, O01	9.8 J, O01	6.7 J, O01	50	50	NE
n-Butylbenzene	ND<4.3	ND<4.8	ND<4.4	ND<4.2	ND<4.9	ND<46.9	2,100 D200	409 D50	1,730 D200	ND<4.6	ND<4.1	ND<4.7	ND<5.4	ND<5.1	ND<4.6	12,000	NE	12,000
n-Propylbenzene	ND<2.1	ND<2.4	ND<2.1	ND<2.0	ND<2.4	ND<22.9	1,800 D200	366 D50	1,560 D200	ND<2.2	ND<2.0	ND<2.3	ND<2.6	ND<2.5	ND<2.2	3,900	3,900	3,900
sec-Butylbenzene	ND<3.4	ND<3.8	ND<3.5	ND<3.3	ND<3.9	ND<36.9	1,970 D200	770 D50	1,580 D200	ND<3.6	ND<3.2	ND<3.7	ND<4.3	ND<4.0	ND<3.6	11,000	11,000	11,000
STARS SVOCs (ug/kg)																		
1-Methylnaphthalene	ND<40.5	ND<38.8	ND<39.6	ND<39.5	ND<39.3	ND<38.2	11,300 D10	483 D5	10,600 D10	ND<37.8	ND<37.9	ND<38.8	ND<39.9	ND<41.5	ND<37.6	NE	NE	NE
2-Methylnaphthalene	ND<40.5	ND<38.9	ND<39.7	ND<39.6	ND<39.4	ND<38.3	7,200 D10	ND<190	18,000 D10	ND<37.9	ND<38.0	ND<38.8	ND<40.0	ND<41.6	ND<37.7	NE	NE	NE
Acenaphthene	ND<40.6	ND<39.0	ND<39.7	ND<39.6	ND<39.5	ND<38.4	1,220 D10	303 J, D5	938 D10	ND<37.9	ND<38.0	ND<38.9	ND<40.1	ND<41.6	ND<37.7	20,000	98,000	20,000
Anthracene	ND<38.5	ND<37.0	ND<37.7	ND<37.6	ND<37.5	ND<36.4	921 D10	321 J, D5	500 J, D10	ND<36.0	ND<36.1	ND<36.9	ND<38.0	ND<39.5	ND<35.8	100,000	1,000,000	100,000
Fluorene	ND<40.9	ND<39.3	ND<40.1	ND<39.9	ND<39.8	ND<38.7	2,880 D10	410 D5	1,970 D10	ND<38.2	ND<38.4	ND<39.2	ND<40.4	ND<42.0	ND<38.1	30,000	386,000	30,000
Phenanthrene	ND<40.0	ND<38.4	ND<39.2	ND<39.1	ND<38.9	ND<37.8	5,560 D10	770 D5	4,020 D10	ND<37.4	ND<37.5	ND<38.4	ND<39.5	ND<41.1	ND<37.2	100,000	1,000,000	100,000
Pyrene	ND<57.0	ND<54.7	ND<55.8	ND<55.6	ND<55.4	ND<53.9	1,230 D10	428 D5	679 J, D10	ND<53.2	ND<53.4	ND<54.6	ND<56.2	ND<58.5	ND<53.0	100,000	1,000,000	100,000
RCRA 8 Metals (Total) (mg/kg)																		
Arsenic	10.5	9.64	10.4	10.3	8.12	6.26	12.2	14.1	19.7	10.7	16.6	10.3	7.72	10.9	10.1	13	16	NE
Barium	130	88.4	117	70.1	109	101	45.1	57.4	59.7	75.7	73.9	70.8	50.4	127	118	350	820	NE
Cadmium	0.383 J	0.305 J	0.367 J	0.327 J	0.322 J	0.316 J	0.383 J	0.401 J	0.430 J	0.309 J	0.319 J	0.307 J	0.263 J	0.390 J	0.332 J	2.5	7.5	NE
Chromium	19.8	17.9	19.3	22.4	21.8	18.0	20.8	24.8	26.3	19.4	21.2	19.4	18.0	23.5	17.8	30	41	NE
Lead	11.7	11.1	12.2	13.1	11.1	10.8	18.5	22.7	26.1	13.0	13.2	12.7	10.9	15.7	15.5	63	450	NE
Selenium	0.910 J	0.799 J	0.761 J	0.802 J	1.07 J	ND<0.742	0.917 J	0.907 J	0.898 J	0.870 J	0.879 J	0.898 J	0.804 J	1.12 J	0.980 J	3.9	4	NE
Mercury	0.0032 J	ND<0.0030	0.0266 J	0.0142 J	0.0111 J	0.0124 J	0.0334	0.0197 J	0.0136 J	0.0238 J	0.0167 J	0.0142 J	ND<0.0032	0.0140 J	0.0159 J	0.18	0.73	NE

Bold Sample Exceeds Unrestricted Objective
Bold Sample Exceeds Protection of Groundwater
Bold Sample Exceeds CP 51 Clean-Up Level
NE Not Established
NA Not Analyzed
ug/kg micrograms per kilogram
mg/kg milligrams per kilogram
ND<xxx Not Detected above laboratory detection limits
STARS SVOCs NYSDEC Spill Technology and Remediation Series Semi-Volatile Organic Compounds
VOCs Volatile Organic Compounds
RCRA Resource Conservation and Recovery Act
O01 This compound is a common laboratory contaminant
J Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
DXXX Data reported from a dilution, dilution factor

Table-2
Monterey Shock Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York
October 14-16, 2014
Groundwater Sample Results - Analyzed for VOCs, STARS SVOCs and RCRA 8 Metals (Total)
(Only detected constituents are listed)

Sample ID	AOC-1		AOC-2		AOC-4	AOC-6	NYSDEC Class GA Criteria
	SB-6	SB-8	SB-11	SB-20	SB-21	SB-29	
VOCs (ug/l)							
1,2,4-Trimethylbenzene	ND<0.3	ND<0.3	ND<0.3	0.5 J	ND<0.3	ND<0.3	5
Acetone	8.5 J	4.4 J	7.8 J	ND<3.6	46.1	ND<3.6	50
Benzene	ND<0.3	ND<0.3	ND<0.3	0.6 J	ND<0.3	ND<0.3	1
Ethylbenzene	ND<0.4	ND<0.4	ND<0.4	9.6	ND<0.4	ND<0.4	5
Isopropylbenzene	ND<0.5	ND<0.5	ND<0.5	12.8	ND<0.5	ND<0.5	5
Naphthalene	0.5 J	ND<0.5	0.7 J	1.4	0.5 J	ND<0.5	10
n-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	4.8	0.5 J	ND<0.4	5
n-Propylbenzene	ND<0.4	ND<0.4	ND<0.4	13.4	ND<0.4	ND<0.4	5
sec-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	12.6	0.9 J	ND<0.4	5
tert-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	0.5 J	ND<0.4	ND<0.4	5
Toluene	ND<0.3	ND<0.3	0.4 J	0.4 J	ND<0.3	ND<0.3	5
STARS SVOCs (ug/l)							
1-Methylnaphthalene	ND<1.08	ND<1.03	ND<11.7 , D10	32.6	ND<11.7 , D	ND<0.978	NE
Acenaphthene	ND<1.21	ND<1.16	ND<13.2 , D10	12.9	62.9 D10	ND<1.10	5.3
Anthracene	ND<1.21	ND<1.16	ND<13.2 , D10	11.7	66.9 D10	ND<1.10	50
Benzo (a) anthracene	ND<1.37	ND<1.31	42.9 J, D10	ND<1.49	ND<14.9 D10	ND<1.24	0.002
Benzo (a) pyrene	ND<1.01	ND<0.963	51.4 J, D10	ND<1.10	ND<11.0 D10	ND<0.912	ND
Benzo (b) fluoranthene	ND<0.980	ND<0.937	70.9 D10	ND<1.07	ND<10.7 D10	ND<0.889	0.002
Benzo (g,h,i) perylene	ND<1.71	ND<1.64	33.6 J, D10	ND<1.86	ND<18.6 D10	ND<1.55	NE
Benzo (k) fluoranthene	ND<1.28	ND<1.23	26.2 J, D10	ND<1.40	ND<14.0 D10	ND<1.16	0.002
Chrysene	ND<1.31	ND<1.25	50.2 J, D10	ND<1.42	ND<14.2 D10	ND<1.19	0.002
Fluoranthene	ND<1.35	ND<1.29	113 D10	2.48 J	ND<14.6 D10	ND<1.22	50
Fluorene	ND<1.44	ND<1.37	ND<15.6 D10	19.8	162 D10	ND<1.30	50
Indeno (1,2,3-cd) pyrene	ND<2.00	ND<1.92	38.5 J, D10	ND<2.18	ND<21.8 D10	ND<1.82	0.002
Phenanthrene	ND<1.05	ND<1.01	44.1 J, D10	35.7	110 D10	ND<0.953	50
Pyrene	ND<3.10	ND<2.96	91.6 D10	15.8	93.4 D10	ND<2.81	50
8 RCRA Metals (Total) (mg/l)							
Mercury	ND<0.00008	ND<0.00008	0.00179 R01, J	0.00158 R01, J	0.0102 R01	ND<0.00157 R01	0.0007
Arsenic	0.0219	0.0545	1.11 R01	2.03 R01	2.37 R01	0.528 R01	0.05
Barium	1.90	2.98	18.5 R01	36.4 R01	43.6 R01	5.44 R01	1
Chromium	0.0768	0.240	4.21 R01	2.92 R01	6.95 R01	1.47 R01	0.05
Lead	0.0454	0.121	2.34 R01	3.42 R01	4.88 R01	1.06 R01	0.025

Bold Sample Exceeds GA Criteria
NE Not Established
ND Not Detectable
NA Not Analyzed
ug/l micrograms per liter
mg/l milligrams per liter
ND<xxx Not Detected above laboratory detection limits
STARS SVOCs NYSDEC Spill Technology and Remediation Series Semi-Volatile Organic Compounds
VOCs Volatile Organic Compounds
RCRA Resource Conservation and Recovery Act
O01 This compound is a common laboratory contaminant
J Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
R01 the Reporting Limit has been raised to account for matrix interference
D # Data reported from a dilution, dilution factor

APPENDIX A

GPR Report

**GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS**

**FOR THE LOCATION
AND INVESTIGATION OF:**

Underground Storage Tanks

**AT THE FOLLOWING
LOCATION:**



**1250 Evergreen Hill Road
Beaver Dams, NY**

PREPARED FOR:

**HRP Associates, Inc.
One Fairchild Square, Suite 10
Clifton Park, NY 12065**

Quotation# 1.5658.14

PREPARED BY:

**Sub-Surface Informational Surveys Incorporated
143C Shaker Road, Suite 206
East Longmeadow, MA 01028-0452**



“Let us Seek and Find”

October 13, 2014

GROUND PENETRATING RADAR (GPR) SURVEY RESULTS

SUB-SURFACE INFORMATIONAL SURVEYS, INC SUB-SURFACE INFORMATIONAL SURVEYS, INC/GPR DIVISION

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1.0 Introduction

In accordance with your authorization, Sub-Surface Informational Surveys, Inc. (SIS) reports to you the results of the ground penetrating radar survey performed on October 13, 2014 at 1250 Evergreen Hill Road, Beaver Dams NY. This survey directed by your approval of SIS quotation #1.5658.14 dated, June 26, 2014.

1.1 Purpose and Scope

The purpose of the ground penetrating radar survey was an investigation for the location of underground storage tanks, or tank graves within an area less than 50,000 SF.



GROUND PENETRATING RADAR (GPR) SURVEY RESULTS

SAMPLE PHOTO: above represents a sample of data collected by Sub-Surface Informational Surveys, Inc. on Sept. 15, 2004 at a site in the State of CT. It shows three (3) Underground Storage Tanks (UST's) with the centerline at the top of the parabolas. This data was taken through concrete, with rebar. **NOTE:** The above is not part of the data collected for this survey.

2. **Pipehorn 500 Dual-Transmitter, Dual-Frequency Locator:** This unit has two separate transmitters. One operates at the highest frequency available in sweeping an area of tracing poor conductors such as iron pipes, fiber optic cable w/tracer tape. A second, low frequency transmitter enables us to quickly isolate a single conductor in congested areas, or to trace for a long distance. **NOT IMPLEMENTED**

3. **The Verifier G2:** This unit provides digital signal processing for a variety of applications. The unit offers Active, Passive and Beacon locating modes. The unit transmits via direct line connections, induction clamp or induces broadcast signals. An 80 kHz frequency facilitates locating metallic lines with insulators that weaken or block low frequencies. In passive mode, detects signals generated by 50/60 HZ power as well as radiated radio frequencies. **IMPLEMENTED in PASSIVE MODE and INDUCTION MODE**

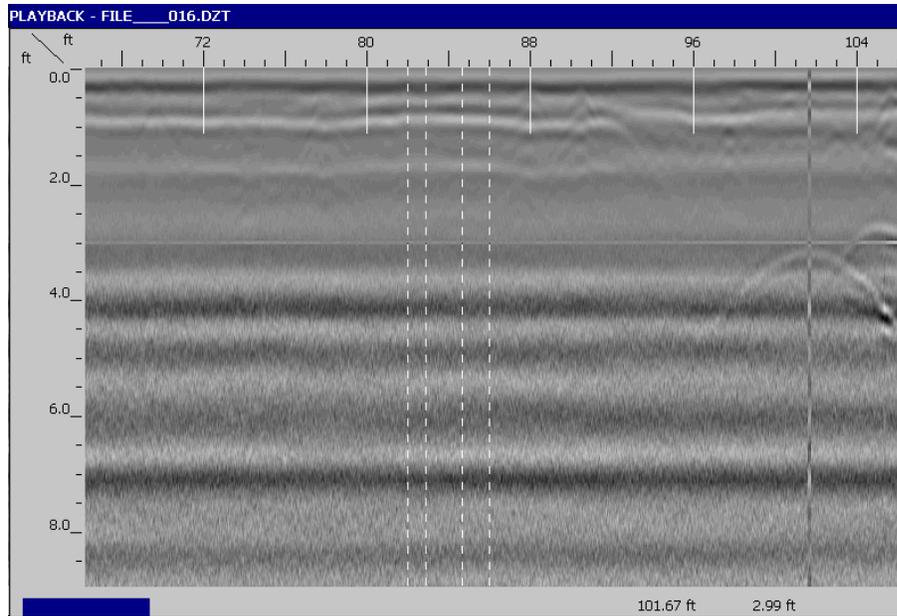
2.2 Geophysical Survey Results

A Ground Penetrating Radar (GPR) survey was conducted in the asphalt, grass, and concrete covered areas of the site as directed by the HRP Associates project manager for the location of underground storage tanks or tank graves. Parabolic anomalies consistent with one (1) already known underground storage tank and (1) underground oil /water separator were detected in the GPR data collected on the day of the survey and were marked on the ground with paint.. Anomalies consistent with three (3) possible tank graves were detected in the GPR data collected in the survey areas and were marked on the ground with paint on the day of the survey.



Above photo shows GPR equipment over survey area with known underground storage tank.

GROUND PENETRATING RADAR (GPR) SURVEY RESULTS



The above image shows GPR data collected in a portion of the area surveyed with a known underground storage tank. Parabolic anomalies consistent with an underground storage tank can be seen at 101.67' into the GPR data at an approximate depth of 02.99' and were marked on the ground with paint on the day of the survey, as directed by the HRP Associates on site project manager.

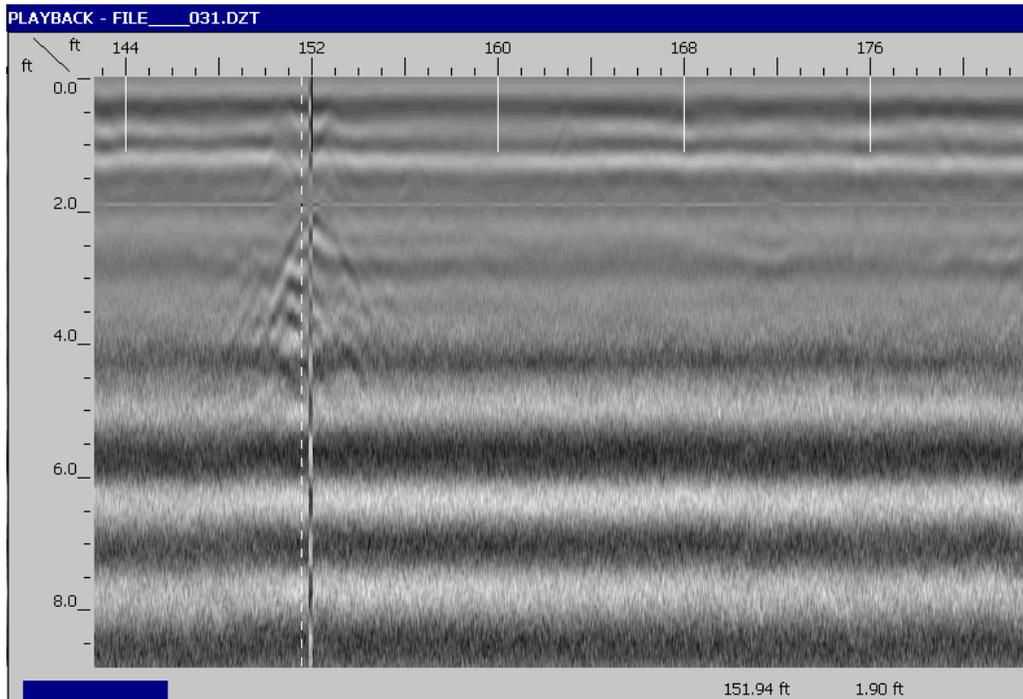


Above photo shows GPR equipment over survey area with underground oil/water separator.

GROUND PENETRATING RADAR (GPR) SURVEY RESULTS



Above photo shows red paint marking detected suspect underground electrical conduit.

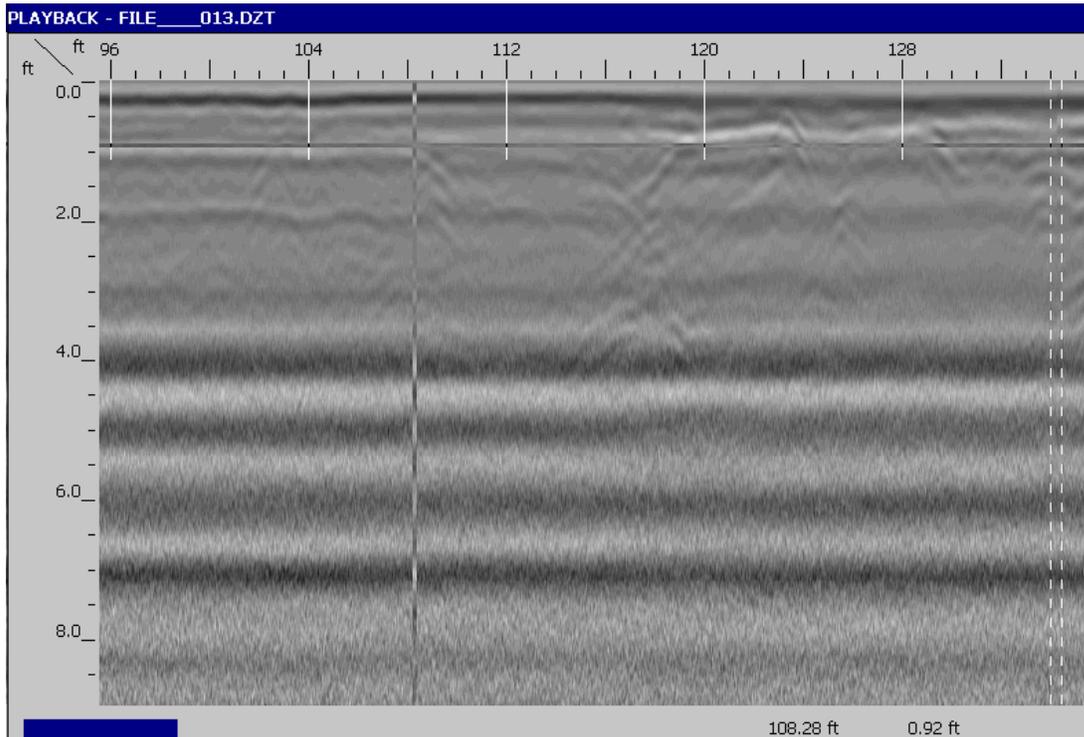


Parabolic anomalies consistent with possible suspect underground utilities can be seen starting at 151.94' into the GPR data at an approximate depth of 01.90'.

GROUND PENETRATING RADAR (GPR) SURVEY RESULTS



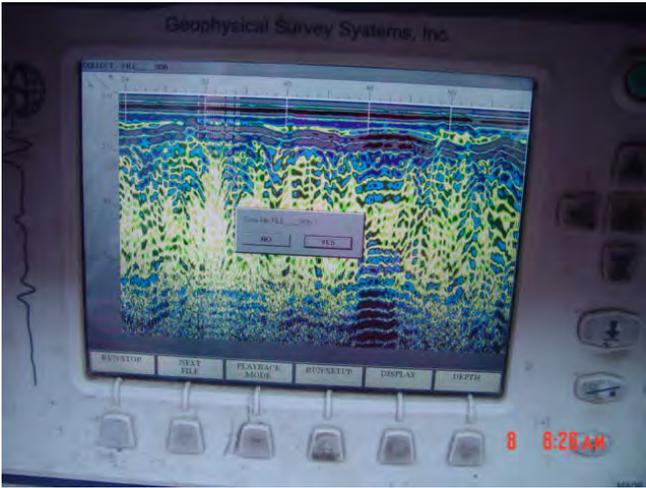
Above photo shows survey area with paint marking location of possible suspect underground utilities.



Above image shows GPR data collected in survey area. Anomalies consistent with a possible excavation or "tank grave" can be seen starting at 108.28' into GPR data and were marked on the ground with paint on the day of the survey.

All results were reviewed with the HRP Associates project manager on the day of the survey.

**GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS**



Sample: Real-time data collected



SIR-3000 GPR System used in this survey

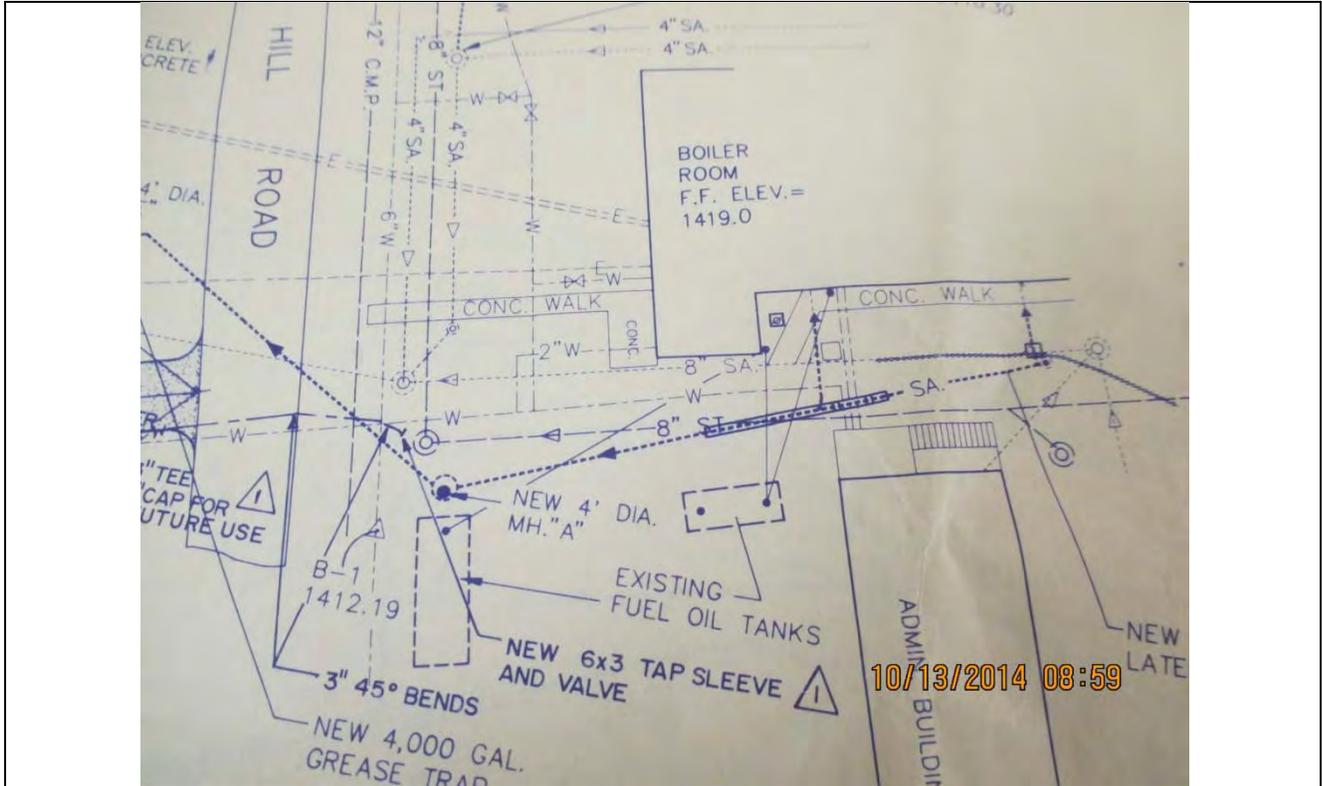


END OF REPORT

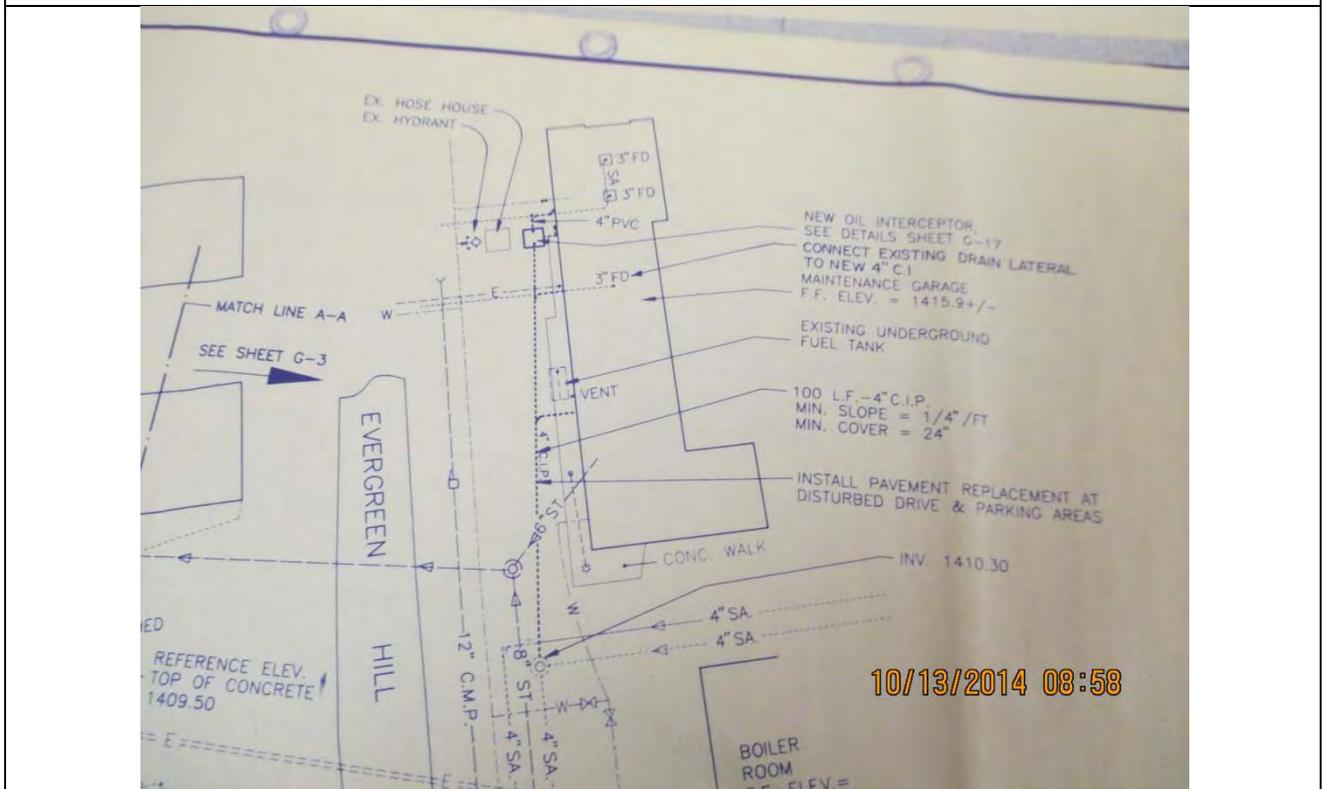
APPENDIX B

Photo Log

Monterey Correctional Facility
Beaver Dams, New York
October 2014

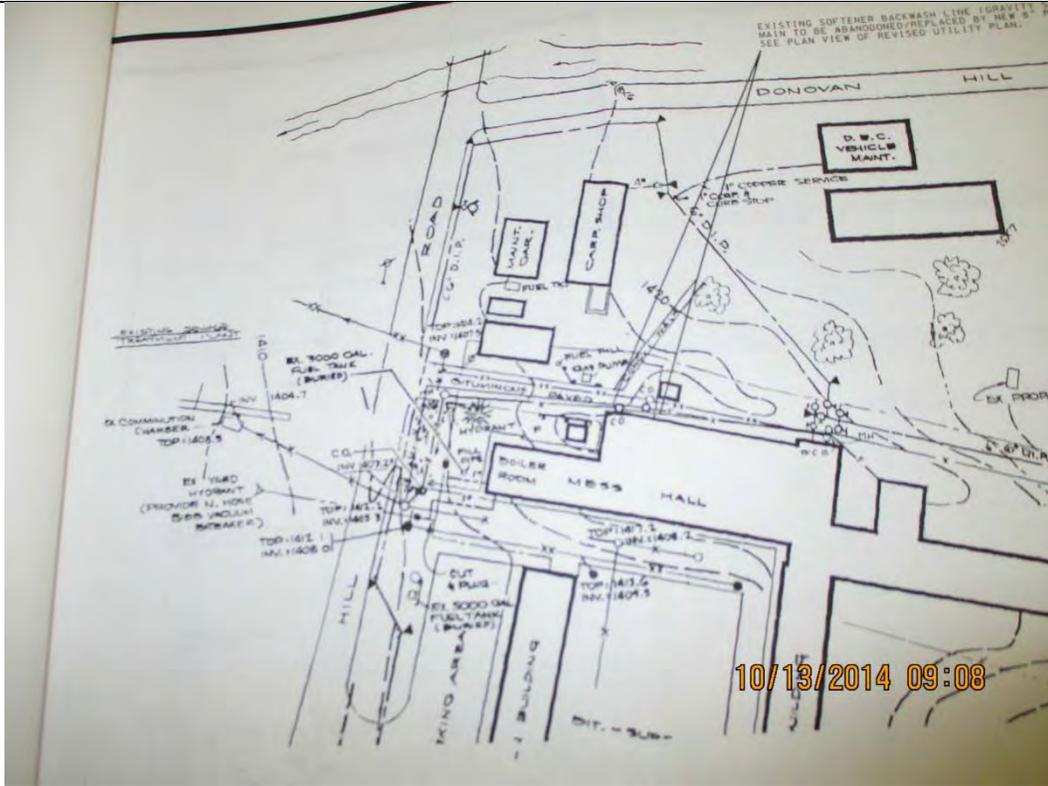


Blueprint showing USTs presumed to be PP-1 and PP-2



Blueprint showing UST presumed to be MNT

Monterey Correctional Facility
Beaver Dams, New York
October 2014



Blueprint showing UST presumed to be GEN



Geoprobe and temporary monitoring well

Monterey Correctional Facility
Beaver Dams, New York
October 2014



Residual of in SB-14



Soil boring locations near Maintenance building

APPENDIX C

Soil Boring Logs

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility **Boring I.D.: SB-2**

Job Number: NEW7442.P2 **Date: 10/14/14**

Drilling Company: Zebra Environmental **Time: 9:07**

Location: Associated with former USTs 1-GAS and 2-GAS

GPS Coordinates **N:** **W:**

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.2	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, fine; some silt; trace gravel; trace clay; tan; medium compact; no odor or staining.	0.0
4	8	4.0	Dry	SAND, medium; some gravel; little silt; light brown; compact; no odor or staining.	0.0
8	12	4.0	Dry	8 to 10: SAND, medium; some gravel; little silt; light brown; compact; no odor or staining.	0.0
			Wet	10 to 12: SILT; some clay; some fine sand; little gravel; light brown; compact; no odor or staining.	0.0
12	15	4.0	Moist	11-13.5: SILT; some clay; some fine sand; little gravel; light brown; compact; no odor or staining.	0.0
			Dry	13.5 to 15: Fine angular GRAVEL in a silt/clay matrix; very compact; grey; no odor or staining.	0.0
	15			End of boring.	

Well Screen: 10-15 ftbg **Soil Samples Collected:** **Time**

Water Sample ID Time SB-2 (10-11) 9:22

Sampling Method:

Description of Water: Screen was left in place for ~3 hours, no water was produced

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-3			
Job Number: NEW7442.P2		Date: 10/14/14			
Drilling Company: Zebra Environmental		Time: 9:36			
Location: Associated with former USTs 1-GAS and 2-GAS					
GPS Coordinates		N:	W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	2.9	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, fine; some silt; trace gravel; trace clay; tan; medium compact; no odor or staining.	0.0
4	8	2.9	Dry	SAND, medium; some gravel; little silt; light brown; compact; no odor or staining.	0.0
8	12	3.8	Dry	8 to 10: SAND, medium; some gravel; little silt; light brown; compact; no odor or staining.	0.0
			Wet	10 to 12: Fine angular GRAVEL in a silt/clay matrix; very compact; grey; no odor or staining.	0.0
12	15	4.0	Dry	Fine angular GRAVEL in a silt/clay matrix; very compact; grey; no odor or staining.	0.0
	15			End of boring.	
Well Screen:			Soil Samples Collected:		Time
Water Sample ID		Time	SB-3 (8-10)		9:45
Sampling Method:					
Description of Water:					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility **Boring I.D.: SB-4**

Job Number: NEW7442.P2 **Date: 10/14/14**

Drilling Company: Zebra Environmental **Time: 10:14**

Location: Associated with former USTs 1-GAS and 2-GAS

GPS Coordinates **N:** **W:**

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.3	Dry	0 to 1: Road Base and asphalt, fill	0.0
			Dry	1 to 4: GRAVEL, coarse; some silt; some medium sand; tan; medium compact; no odor or staining.	0.0
4	8	4.0	Dry	4 to 7: GRAVEL, coarse; some silt; some medium sand; tan; medium compact; no odor or staining.	0.0
			Moist	7 to 8: CLAY and GRAVEL, fine; little silt; little sand; light brown; medium compact; no odor or staining.	0.0
8	12	4.0	Moist	8 to 10: CLAY and GRAVEL, fine; little silt; little sand; light brown; medium compact; no odor or staining.	0.0
			Moist	10 to 12: CLAY and GRAVEL, fine; little silt; little sand; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Moist	CLAY and GRAVEL, fine; little silt; little sand; grey; medium compact; no odor or staining.	0.0
	15			End of boring.	

Well Screen: **Soil Samples Collected:** **Time**

Water Sample ID Time SB-4 (7-8) 10:30

Sampling Method:

Description of Water:

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-5			
Job Number: NEW7442.P2		Date: 10/14/14			
Drilling Company: Zebra Environmental		Time: 10:56			
Location: Associated with former USTs 1-GAS and 2-GAS					
GPS Coordinates		N:	W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.1	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, medium and GRAVEL, coarse; tan; loose; no odor or staining.	0.0
4	8	4.0	Dry	4 to 7.5: SAND, medium and GRAVEL, coarse; tan; loose; no odor or staining.	0.0
			Moist	7.5 to 8: CLAY and SILT; some gravel; brown; medium compact; no odor or staining.	0.0
8	12	4.0	Moist	8 to 9: CLAY and SILT; some gravel; brown; medium compact; no odor or staining.	0.0
			Moist	9 to 12: CLAY and SILT; some gravel; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Moist	12 to 13: CLAY and SILT; some gravel; grey; medium compact; no odor or staining.	0.0
			Dry	13 to 15: Crushed rock	0.0
	15			End of boring.	
Well Screen:			Soil Samples Collected:		Time
Water Sample ID		Time	SB-5 (12-13)		10:30
Sampling Method:					
Description of Water:					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-6			
Job Number: NEW7442.P2		Date: 10/14/14			
Drilling Company: Zebra Environmental		Time: 11:34			
Location: Associated with former USTs 1-GAS and 2-GAS					
GPS Coordinates		N:	W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.1	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, medium and GRAVEL, coarse; tan; loose; no odor or staining.	0.0
4	8	4.0	Dry	4 to 7: SAND, medium; some gravel; little silt; tan; loose; no odor or staining.	0.0
			Moist	7 to 8: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
8	12	4.0	Moist	8 to 9: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
			Moist	9 to 12: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Wet	12 to 13: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
			Dry	13 to 15: Crushed rock	0.0
	15			End of boring.	
Well Screen: 10-15 ftbg			Soil Samples Collected:		Time
Water Sample ID		Time	SB-6 (12-13)		12:00
SB-6		13:15			
Sampling Method: LDPE/Check valve					
Description of Water: Very Silty/turbid					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-8			
Job Number: NEW7442.P2		Date: 10/14/14			
Drilling Company: Zebra Environmental		Time: 13:50			
Location: Associated with former USTs 1-GAS and 2-GAS					
GPS Coordinates		N:	W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	2.8	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, medium and GRAVEL, coarse; tan; loose; no odor or staining.	0.0
4	8	4.0	Dry	4 to 7: SAND, medium and GRAVEL; little silt; brown; loose; no odor or staining.	0.0
			Moist	7 to 8: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
8	12	4.0	Moist	8 to 10: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
			Moist	10 to 12: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Wet	12 to 13: GRAVEL and SILT; loose; grey; no odor or staining.	0.0
			Dry	13 to 15: fine angular gravel in a SILT and CLAY matrix; brown; medium very compact; no odor or staining.	0.0
	15			End of boring.	
Well Screen: 10 to 15 ftbg			Soil Samples Collected:		Time
Water Sample ID		Time			
SB-8		15:15			
Sampling Method: LDPE/Check valve					
Description of Water: Silty/very turbid					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-11			
Job Number: NEW7442.P2		Date: 10/15/14			
Drilling Company: Zebra Environmental		Time: 8:15			
Location: Associated with former USTs PP-1 and PP-2					
GPS Coordinates N:			W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	2.1	Moist	Top soil, SAND, medium and SILT; some gravel; dark brown; loose; no odor or staining.	0.0
4	8	3.3	Moist	4 to 5: SAND, medium and SILT; some gravel; dark brown; loose; no odor or staining.	0.0
			Wet	5 to 8: SAND, medium and GRAVEL; little silt; tan; loose; no odor or staining.	17.1
8	12	3.2	Moist	8 to 10: SAND, medium and GRAVEL; little silt; tan; loose; no odor or staining.	4.7
			Moist	10 to 12: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Dry	fine angular gravel in a SILT and CLAY matrix; brown; medium very compact; no odor or staining.	0.0
	15			End of boring.	
Well Screen: 5 to 10 ftbg			Soil Samples Collected:		Time
Water Sample ID		Time	SB-11 (5-6)		8:20
SB-11		9:00			
Sampling Method: LDPE/Check Valve					
Description of Water: Very silty/turbid					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-12			
Job Number: NEW7442.P2		Date: 10/15/14			
Drilling Company: Zebra Environmental		Time: 8:37			
Location: Associated with former USTs PP-1 and PP-2					
GPS Coordinates N:			W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	2.8	Moist	0 to 0.25: Asphalt 0.25 to 4: Top soil, SAND, medium and SILT; some gravel; dark brown; loose; no odor or staining.	0.0 12.8
4	8	4.0	Dry	fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
8	12	4.0	Wet	8 to 9: SAND, medium and GRAVEL; little silt; tan; loose; no odor or staining.	0.0
			Moist	9 to 12: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Dry	fine angular gravel in a SILT and CLAY matrix; grey; medium very compact; no odor or staining.	0.0
	15			End of boring.	
Well Screen:			Soil Samples Collected:		Time
Water Sample ID		Time	SB-12 (3-4)		8:45
Sampling Method:					
Description of Water:					

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Project: Monterey Correctional Facility **Boring I.D.: SB-15**

Job Number: NEW7442.P2 **Date: 10/15/14**

Drilling Company: Zebra Environmental **Time: 10:15**

Location: Presumed downgradient of current UST

GPS Coordinates **N:** **W:**

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.8	Dry	0 to 1: Topsoil	0.0
			Dry	1 to 2: Pea gravel	0.0
				2 to 4: SAND, medium; some silt; little gravel; dark brown; loose; no odor or staining.	
4	8	2.9	Dry	4 to 6: SAND, medium and GRAVEL, fine, angular; some silt; tan; loose; no odor or staining.	0.0
			Dry	6 to 8: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
8	12	2.8	Dry	fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	3.2	Dry	fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
	15			End of boring.	

Well Screen: **Soil Samples Collected:** **Time**

Water Sample ID Time

Sampling Method:

Description of Water:

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Project: Monterey Correctional Facility **Boring I.D.: SB-16**

Job Number: NEW7442.P2 **Date: 10/15/14**

Drilling Company: Zebra Environmental **Time: 10:52**

Location: Presumed downgradient of UST grave locate during GPR

GPS Coordinates **N:** **W:**

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	3.8	Dry	0 to 2: Road Base and asphalt, fill	0.0
			Dry	2 to 4: SAND, medium and GRAVEL, coarse; tan; loose; no odor or staining.	0.0
4	8	4.0	Dry	4 to 6: SAND, medium and GRAVEL, fine, angular; some silt; tan; loose; no odor or staining.	0.0
			Dry	6 to 8: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	255
8	12	4.0	Dry	fine angular gravel in a SILT and CLAY matrix; grey; medium compact; slight fuel oil odor.	455 313 299 172
12	15	4.0	Dry	fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no staining, slight fuel oil odor from 12 to 13.	180 135 33.7 16.1
	15			End of boring.	

Well Screen: **Soil Samples Collected:** **Time**

Water Sample ID Time SB-16 (8-9) 11:10

Sampling Method:

Description of Water:

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Project: Monterey Correctional Facility		Boring I.D.: SB-21			
Job Number: NEW7442.P2		Date: 10/15/14			
Drilling Company: Zebra Environmental		Time: 14:36			
Location: Downgradient of Boiler room, where UST was shown on plans					
GPS Coordinates N:			W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	2.7	Moist	0 to 2: Road Base and asphalt, fill	0.0
			Moist	2 to 4: SAND, medium; some gravel; trace silt; tan; loose; no odor or staining.	0.0
4	8	3.2	Moist	4 to 5: SAND, medium; some gravel; trace silt; tan; loose; no odor or staining.	0.0
			Moist	5 to 8: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
8	11.5	4.0	Moist	8 to 9: GRAVEL, coarse; little clay; little silt; grey; loose; no odor or staining.	0.0
				9 to 10: CLAY; grey; medium compact; no odor or staining.	0.0
				10 to 11.5: Rock chips in a grey matrix; possible weathered bedrock.	0.0
	11.5			Refusal. End of boring.	
Well Screen: 6.58 to 11.5 ftbg			Soil Samples Collected:		Time
Water Sample ID		Time			
SB-21		15:30			
Sampling Method:					
Description of Water:					

HRP Associates, Inc.

Creating the Right Solutions Together

Project: Monterey Correctional Facility		Boring I.D.: SB-30			
Job Number: NEW7442.P2		Date: 10/16/14			
Drilling Company: Zebra Environmental		Time: 13:25			
Location: Tank GYM A					
GPS Coordinates N:			W:		
Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	4.0	Moist	SAND, medium to fine; some silt; some gravel; brown; medium compact; no odor or staining.	0.0
4	8	4.0	Moist	fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
8	12	3.3	Moist	8 to 11: fine angular gravel in a SILT and CLAY matrix; brown; medium compact; no odor or staining.	0.0
			Moist	11 to 12: fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
12	15	4.0	Moist	fine angular gravel in a SILT and CLAY matrix; grey; medium compact; no odor or staining.	0.0
	15			End of boring.	0.0
Well Screen:			Soil Samples Collected:		Time
Water Sample ID		Time			
Sampling Method:					
Description of Water:					

APPENDIX D

Laboratory Report

Report Date:
27-Oct-14 17:02



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

HRP Associates, Inc.
One Fairchild Square, Suite 110
Clifton Park, NY 12065
Attn: Mark Wright

Project: Monterey- Beaver Dams, NY
Project #: NEW7442.P2

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB98283-01	SB-2 (10-11)	Soil	14-Oct-14 09:22	18-Oct-14 10:25
SB98283-02	SB-3 (8-10)	Soil	14-Oct-14 10:00	18-Oct-14 10:25
SB98283-03	SB-4 (7-8)	Soil	14-Oct-14 10:30	18-Oct-14 10:25
SB98283-04	SB-5 (12-13)	Soil	14-Oct-14 11:29	18-Oct-14 10:25
SB98283-05	SB-11 (5-6)	Soil	15-Oct-14 08:20	18-Oct-14 10:25
SB98283-06	SB-13 (5-6)	Soil	15-Oct-14 09:23	18-Oct-14 10:25
SB98283-07	SB-14 (8-10)	Soil	15-Oct-14 10:10	18-Oct-14 10:25
SB98283-08	SB-16 (8-9)	Soil	15-Oct-14 11:10	18-Oct-14 10:25
SB98283-09	SB-20 (10-11)	Soil	15-Oct-14 14:00	18-Oct-14 10:25
SB98283-10	SB-22 (10-11)	Soil	15-Oct-14 15:20	18-Oct-14 10:25
SB98283-11	SB-29	Ground Water	16-Oct-14 12:00	18-Oct-14 10:25
SB98283-12	SB-20	Ground Water	15-Oct-14 14:05	18-Oct-14 10:25
SB98283-13	SB-6	Ground Water	14-Oct-14 13:15	18-Oct-14 10:25
SB98283-14	SB-11	Ground Water	15-Oct-14 09:00	18-Oct-14 10:25
SB98283-15	SB-21	Ground Water	15-Oct-14 15:30	18-Oct-14 10:25
SB98283-16	SB-8	Ground Water	14-Oct-14 15:15	18-Oct-14 10:25
SB98283-17	SB-23 (14-15)	Soil	16-Oct-14 08:30	18-Oct-14 10:25
SB98283-18	SB-26 (6-8)	Soil	16-Oct-14 09:35	18-Oct-14 10:25
SB98283-19	SB-28 (8-9)	Soil	16-Oct-14 10:45	18-Oct-14 10:25
SB98283-20	SB-31 (12-13)	Soil	16-Oct-14 15:10	18-Oct-14 10:25
SB98283-21	SB-33 (6-8)	Soil	16-Oct-14 15:25	18-Oct-14 10:25
SB98283-22	Green Sand	Soil	16-Oct-14 12:10	18-Oct-14 10:25
SB98283-23	Trip Blank	Aqueous	15-Oct-14 00:00	18-Oct-14 10:25

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 # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja". The signature is written in a cursive, flowing style.

Nicole Leja
Laboratory Director

Spectrum Analytical holds 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 123 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 Spectrum Analytical, Inc.

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

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

CASE NARRATIVE:

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

The samples were received 0.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

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

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

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

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

SW846 8270 Case Narrative:

SB98283-15 has low surrogate recovery due to matrix interference; there was insufficient sample volume to re-extract for confirmation. See attached chromatogram

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

EPA 245.1/7470A

Samples:

SB98283-11 *SB-29*

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

Mercury

SB98283-12 *SB-20*

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

Mercury

SB98283-14 *SB-11*

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

Mercury

SB98283-15 *SB-21*

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

Mercury

SW846 1311/6010C

Laboratory Control Samples:

1424771 BS/BSD

SW846 1311/6010C

Laboratory Control Samples:

1424771 BS/BSD

Barium percent recoveries (110/119) are outside individual acceptance criteria (85-115), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Green Sand

Duplicates:

1424771-DUP1 *Source: SB98283-22*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic
Selenium

MRL raised to correlate to batch QC reporting limits.

Selenium

Samples:

SB98283-22 *Green Sand*

MRL raised to correlate to batch QC reporting limits.

Selenium

SW846 6010C

Spikes:

1424984-MSD1 *Source: SB98283-17*

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

Lead

Duplicates:

1424984-DUP1 *Source: SB98283-17*

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

Barium

Samples:

SB98283-11 *SB-29*

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

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium

SB98283-12 *SB-20*

SW846 6010C

Samples:

SB98283-12 *SB-20*

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

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

SB98283-14 *SB-11*

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

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

SB98283-15 *SB-21*

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

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

SW846 7471B

Duplicates:

1424985-DUP1 *Source: SB98283-17*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Mercury

SW846 8260C

Calibration:

1409053

Analyte quantified by quadratic equation type calibration.

1,1,2-Trichlorotrifluoroethane (Freon 113)
Bromoform
Dibromochloromethane
Naphthalene
trans-1,3-Dichloropropene

SW846 8260C

Calibration:

1409053

This affected the following samples:

1424801-BLK1
1424801-BS1
1424801-BSD1
1424801-MS1
1424801-MSD1
S410392-ICV1
S411940-CCV1
SB-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

1410028

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
Naphthalene
n-Butylbenzene

This affected the following samples:

1424780-BLK1
1424780-BS1
1424780-BSD1
S411509-ICV1
S411942-CCV1
Trip Blank

1410045

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,4-Dioxane
2-Butanone (MEK)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Naphthalene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1410045

This affected the following samples:

1424779-BLK1
1424779-BS1
1424779-BSD1
1424920-BLK1
1424920-BS1
1424920-BSD1
S411778-ICV1
S411941-CCV1
S412015-CCV1
SB-11 (5-6)
SB-2 (10-11)
SB-22 (10-11)
SB-23 (14-15)
SB-26 (6-8)
SB-28 (8-9)
SB-3 (8-10)
SB-31 (12-13)
SB-33 (6-8)
SB-4 (7-8)
SB-5 (12-13)

1410054

Analyte quantified by quadratic equation type calibration.

1,2-Dibromo-3-chloropropane
Naphthalene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1424908-BLK1
1424908-BS1
1424908-BSD1
S412008-CCV1
S412022-ICV1
SB-11
SB-20
SB-21
SB-29
SB-6
SB-8

S410392-ICV1

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

1,2,3-Trichloropropane (121%)
Isopropylbenzene (125%)
trans-1,4-Dichloro-2-butene (123%)

SW846 8260C

Calibration:

S410392-ICV1

This affected the following samples:

1424801-BLK1
1424801-BS1
1424801-BSD1
1424801-MS1
1424801-MSD1
S411940-CCV1
SB-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

S411778-ICV1

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

1,2,3-Trichloropropane (122%)
Dichlorodifluoromethane (Freon12) (69%)
Isopropylbenzene (126%)

This affected the following samples:

1424779-BLK1
1424779-BS1
1424779-BSD1
1424920-BLK1
1424920-BS1
1424920-BSD1
S411941-CCV1
S412015-CCV1
SB-11 (5-6)
SB-2 (10-11)
SB-22 (10-11)
SB-23 (14-15)
SB-26 (6-8)
SB-28 (8-9)
SB-3 (8-10)
SB-31 (12-13)
SB-33 (6-8)
SB-4 (7-8)
SB-5 (12-13)

Laboratory Control Samples:

1424779 BS/BSD

Naphthalene percent recoveries (66/71) 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-11 (5-6)
SB-2 (10-11)
SB-23 (14-15)
SB-26 (6-8)
SB-28 (8-9)
SB-3 (8-10)
SB-31 (12-13)
SB-33 (6-8)
SB-4 (7-8)
SB-5 (12-13)

SW846 8260C

Laboratory Control Samples:

1424801 BS/BSD

1,1,1-Trichloroethane percent recoveries (134/131) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

Acrylonitrile percent recoveries (65/67) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

Carbon tetrachloride percent recoveries (142/142) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

Chloromethane percent recoveries (64/64) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

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

SB-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

Hexachlorobutadiene percent recoveries (134/133) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

Tetrahydrofuran percent recoveries (66/65) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

SW846 8260C

Laboratory Control Samples:

1424801 BS/BSD

Trichlorofluoromethane (Freon 11) percent recoveries (137/136) 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-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

1424920 BS/BSD

1,1,1-Trichloroethane percent recoveries (66/70) 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-22 (10-11)

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries (66/69) 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-22 (10-11)

2,2-Dichloropropane percent recoveries (65/69) 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-22 (10-11)

2-Hexanone (MBK) percent recoveries (66/67) 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-22 (10-11)

Carbon disulfide percent recoveries (68/72) 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-22 (10-11)

Carbon tetrachloride percent recoveries (63/66) 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-22 (10-11)

Dichlorodifluoromethane (Freon12) percent recoveries (54/58) 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-22 (10-11)

Trichlorofluoromethane (Freon 11) percent recoveries (56/60) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SB-22 (10-11)

Spikes:

1424801-MS1

Source: SB98283-06

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

1,1,1-Trichloroethane
Ethanol
Hexachlorobutadiene
Tetrahydrofuran
Trichlorofluoromethane (Freon 11)

SW846 8260C

Spikes:

1424801-MS1

Source: SB98283-06

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

1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2-Dichloropropane
4-Chlorotoluene
Acetone
Bromomethane
Chloromethane
n-Propylbenzene
sec-Butylbenzene
tert-Butylbenzene
Tetrachloroethene

1424801-MSD1

Source: SB98283-06

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Ethanol
Hexachlorobutadiene
Tetrahydrofuran

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

Bromomethane
Carbon disulfide
Chloroethane
Chloromethane

Samples:

S411940-CCV1

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

1,1,1,2-Tetrachloroethane (21.3%)
1,1,1-Trichloroethane (31.1%)
2,2-Dichloropropane (25.3%)
Acrylonitrile (-33.4%)
Carbon tetrachloride (41.5%)
Chloroethane (-28.4%)
Chloromethane (-35.8%)
Di-isopropyl ether (-21.2%)
Hexachlorobutadiene (33.4%)
Tetrachloroethene (22.8%)
Tetrahydrofuran (-34.9%)
Trichlorofluoromethane (Freon 11) (35.7%)
Vinyl chloride (29.2%)

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

Bromoform (22.7%)
Ethanol (-36.5%)

SW846 8260C

Samples:

S411940-CCV1

This affected the following samples:

1424801-BLK1
1424801-BS1
1424801-BSD1
1424801-MS1
1424801-MSD1
SB-13 (5-6)
SB-14 (8-10)
SB-16 (8-9)
SB-20 (10-11)

S411941-CCV1

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

1,1,2-Trichlorotrifluoroethane (Freon 113) (-24.9%)
1,1-Dichloroethene (-22.7%)
2,2-Dichloropropane (-24.3%)
Carbon disulfide (-21.7%)
Chloromethane (-21.2%)
Dichlorodifluoromethane (Freon12) (-25.1%)
Tetrahydrofuran (-22.3%)
Trichlorofluoromethane (Freon 11) (-21.3%)
Vinyl chloride (-22.1%)

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

1,2,3-Trichlorobenzene (-22.8%)
1,2,4-Trichlorobenzene (-25.0%)
Naphthalene (-34.0%)
trans-1,4-Dichloro-2-butene (-21.2%)

This affected the following samples:

1424779-BLK1
1424779-BS1
1424779-BSD1
SB-11 (5-6)
SB-2 (10-11)
SB-23 (14-15)
SB-26 (6-8)
SB-28 (8-9)
SB-3 (8-10)
SB-31 (12-13)
SB-33 (6-8)
SB-4 (7-8)
SB-5 (12-13)

S411942-CCV1

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

Bromochloromethane (22.3%)
cis-1,2-Dichloroethene (23.3%)
Di-isopropyl ether (24.6%)

SW846 8260C

Samples:

S411942-CCV1

This affected the following samples:

- 1424780-BLK1
- 1424780-BS1
- 1424780-BSD1
- Trip Blank

S412015-CCV1

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

- 1,2,4-Trimethylbenzene (21.4%)
- 1,3,5-Trichlorobenzene (27.1%)
- Dichlorodifluoromethane (Freon12) (-24.2%)
- n-Butylbenzene (21.0%)
- Styrene (25.2%)
- Trichlorofluoromethane (Freon 11) (-21.6%)

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

- 2-Butanone (MEK) (28.2%)
- Acetone (64.3%)

This affected the following samples:

- 1424920-BLK1
- 1424920-BS1
- 1424920-BSD1
- SB-22 (10-11)

SB98283-01 *SB-2 (10-11)*

This compound is a common laboratory contaminant.

- Methylene chloride

SB98283-02 *SB-3 (8-10)*

This compound is a common laboratory contaminant.

- Methylene chloride

SB98283-06 *SB-13 (5-6)*

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.

SB98283-07 *SB-14 (8-10)*

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.

SB98283-08 *SB-16 (8-9)*

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.

SB98283-09 *SB-20 (10-11)*

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

SB98283-17 *SB-23 (14-15)*

SW846 8260C

Samples:

SB98283-17 *SB-23 (14-15)*

This compound is a common laboratory contaminant.

Methylene chloride

SB98283-18 *SB-26 (6-8)*

This compound is a common laboratory contaminant.

Methylene chloride

SB98283-19 *SB-28 (8-9)*

This compound is a common laboratory contaminant.

Methylene chloride

SB98283-20 *SB-31 (12-13)*

This compound is a common laboratory contaminant.

Methylene chloride

SB98283-21 *SB-33 (6-8)*

This compound is a common laboratory contaminant.

Methylene chloride

SW846 8270D

Samples:

SB98283-07 *SB-14 (8-10)*

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.

SB98283-08 *SB-16 (8-9)*

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.

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

Nitrobenzene-d5

SB98283-09 *SB-20 (10-11)*

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.

SB98283-14 *SB-11*

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.

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

Terphenyl-dl4

SB98283-15 *SB-21*

SW846 8270D

Samples:

SB98283-15

SB-21

Due to insufficient sample volume, sample cannot be re-extracted.

2-Fluorobiphenyl

Terphenyl-d14

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.

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

Nitrobenzene-d5

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

2-Fluorobiphenyl

Terphenyl-d14

Sample Acceptance Check Form

Client: HRP Associates, Inc. - Clifton Park, NY
 Project: Monterey- Beaver Dams, NY / NEW7442.P2
 Work Order: SB98283
 Sample(s) received on: 10/18/2014

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

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

Sample Identification

SB-2 (10-11)

SB98283-01

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 09:22

Received

18-Oct-14

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

VOC Extraction

Lab
extracted

N/A

1

VOC Soil
Extraction

20-Oct-14

20-Oct-14

BD

1424705

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.27 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.3	UJL	µg/kg dry	5.3	4.3	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 27.8	UJL	µg/kg dry	52.6	27.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.2	UJL	µg/kg dry	5.3	5.2	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.1	UJL	µg/kg dry	5.3	4.1	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.0	UJL	µg/kg dry	5.3	5.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.4	UJL	µg/kg dry	10.5	10.4	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.7	UJL	µg/kg dry	52.6	17.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.3	UJL	µg/kg dry	5.3	4.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.4	UJL	µg/kg dry	5.3	3.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.8	UJL	µg/kg dry	5.3	3.8	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.6	UJL	µg/kg dry	10.5	2.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.6	UJL	µg/kg dry	5.3	2.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.5	UJL	µg/kg dry	10.5	4.5	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.7	UJL	µg/kg dry	5.3	2.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.3	UJL	µg/kg dry	10.5	10.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.4	UJL	µg/kg dry	5.3	2.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.8	UJL	µg/kg dry	5.3	2.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.8	UJL	µg/kg dry	10.5	6.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.2	UJL	µg/kg dry	5.3	1.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.9	UJL	µg/kg dry	5.3	2.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.5	UJL	µg/kg dry	5.3	2.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.7	UJL	µg/kg dry	5.3	3.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.9	UJL	µg/kg dry	5.3	2.9	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.8	UJL	µg/kg dry	10.5	3.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.7	UJL	µg/kg dry	5.3	2.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.4	UJL	µg/kg dry	5.3	2.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.3	UJL	µg/kg dry	5.3	3.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.4	UJL	µg/kg dry	5.3	1.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.7	UJL	µg/kg dry	5.3	2.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X

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Sample Identification

SB-2 (10-11)

SB98283-01

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 09:22

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.27 g

87-68-3	Hexachlorobutadiene	< 1.9	UJL	µg/kg dry	5.3	1.9	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 12.1	UJL	µg/kg dry	52.6	12.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.6	UJL	µg/kg dry	5.3	4.6	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.1	UJL	µg/kg dry	5.3	3.1	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.8	UJL	µg/kg dry	5.3	2.8	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 16.3	UJL	µg/kg dry	52.6	16.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.4	JL, O01	µg/kg dry	10.5	3.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.3	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.2	UJL	µg/kg dry	5.3	2.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.7	UJL	µg/kg dry	5.3	3.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.1	UJL	µg/kg dry	5.3	3.1	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.2	UJL	µg/kg dry	5.3	1.2	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.0	UJL	µg/kg dry	5.3	3.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.7	UJL	µg/kg dry	5.3	1.7	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.0	UJL	µg/kg dry	10.5	3.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.3	UJL	µg/kg dry	5.3	3.3	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.7	UJL	µg/kg dry	10.5	7.7	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.8	UJL	µg/kg dry	5.3	4.8	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.1	UJL	µg/kg dry	5.3	3.1	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.6	UJL	µg/kg dry	5.3	1.6	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.4	UJL	µg/kg dry	5.3	1.4	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 31.4	UJL	µg/kg dry	52.6	31.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 71.0	UJL	µg/kg dry	105	71.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 13.0	UJL	µg/kg dry	26.3	13.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 601	UJL	µg/kg dry	2110	601	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	90			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-2 (10-11)

SB98283-01

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 09:22

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 40.6	U	µg/kg dry	76.2	40.6	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 42.1	U	µg/kg dry	76.2	42.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 38.5	U	µg/kg dry	76.2	38.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 61.6	U	µg/kg dry	76.2	61.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 33.3	U	µg/kg dry	76.2	33.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 30.8	U	µg/kg dry	76.2	30.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 41.5	U	µg/kg dry	76.2	41.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 47.5	U	µg/kg dry	76.2	47.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 55.8	U	µg/kg dry	76.2	55.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 40.0	U	µg/kg dry	76.2	40.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 37.7	U	µg/kg dry	76.2	37.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 40.9	U	µg/kg dry	76.2	40.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 40.8	U	µg/kg dry	76.2	40.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 40.5	U	µg/kg dry	76.2	40.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 40.5	U	µg/kg dry	76.2	40.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 42.1	U	µg/kg dry	76.2	42.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 40.0	U	µg/kg dry	76.2	40.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 57.0	U	µg/kg dry	76.2	57.0	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	57			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	66			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	85			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.160	U	mg/kg dry	1.68	0.160	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.5		mg/kg dry	1.68	0.593	1	"	"	"	"	"	X
7440-39-3	Barium	130		mg/kg dry	1.12	0.203	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.383	J	mg/kg dry	0.559	0.0748	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	19.8		mg/kg dry	1.12	0.202	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0032	J	mg/kg dry	0.0322	0.0032	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	11.7		mg/kg dry	1.68	0.778	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.910	J	mg/kg dry	1.68	0.790	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	87.6		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-3 (8-10)
SB98283-02

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
14-Oct-14 10:00

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 5.14 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.8	UJL	µg/kg dry	5.9	4.8	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 31.0	UJL	µg/kg dry	58.8	31.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.9	UJL	µg/kg dry	5.9	3.9	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	5.9	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.0	UJL	µg/kg dry	5.9	4.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.8	UJL	µg/kg dry	5.9	5.8	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.6	UJL	µg/kg dry	5.9	4.6	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.6	UJL	µg/kg dry	5.9	5.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.6	UJL	µg/kg dry	11.8	11.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.8	UJL	µg/kg dry	58.8	19.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.8	UJL	µg/kg dry	5.9	4.8	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.8	UJL	µg/kg dry	5.9	3.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.2	UJL	µg/kg dry	5.9	4.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.9	UJL	µg/kg dry	11.8	2.9	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.9	UJL	µg/kg dry	5.9	2.9	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.1	UJL	µg/kg dry	5.9	2.1	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.1	UJL	µg/kg dry	11.8	5.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.1	UJL	µg/kg dry	5.9	3.1	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.5	UJL	µg/kg dry	11.8	11.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.9	2.6	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.1	UJL	µg/kg dry	5.9	3.1	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.7	UJL	µg/kg dry	11.8	7.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.1	UJL	µg/kg dry	5.9	2.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.3	UJL	µg/kg dry	5.9	1.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.3	UJL	µg/kg dry	5.9	3.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.8	UJL	µg/kg dry	5.9	2.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.2	UJL	µg/kg dry	5.9	4.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.3	UJL	µg/kg dry	5.9	3.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.3	UJL	µg/kg dry	11.8	4.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.3	UJL	µg/kg dry	5.9	2.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.0	UJL	µg/kg dry	5.9	3.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.9	UJL	µg/kg dry	5.9	3.9	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.0	UJL	µg/kg dry	5.9	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.0	UJL	µg/kg dry	5.9	4.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.7	UJL	µg/kg dry	5.9	2.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.1	UJL	µg/kg dry	5.9	2.1	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.7	UJL	µg/kg dry	5.9	3.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.6	UJL	µg/kg dry	5.9	3.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.5	UJL	µg/kg dry	5.9	1.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.0	UJL	µg/kg dry	5.9	3.0	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.0	UJL	µg/kg dry	5.9	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-3 (8-10)
SB98283-02

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
14-Oct-14 10:00

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.14 g

87-68-3	Hexachlorobutadiene	< 2.1	UJL	µg/kg dry	5.9	2.1	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 13.5	UJL	µg/kg dry	58.8	13.5	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.1	UJL	µg/kg dry	5.9	5.1	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.5	UJL	µg/kg dry	5.9	3.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.1	UJL	µg/kg dry	5.9	3.1	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 18.3	UJL	µg/kg dry	58.8	18.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	3.6	JL, O01	µg/kg dry	11.8	3.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.0	UJL	µg/kg dry	5.9	4.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.4	UJL	µg/kg dry	5.9	2.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.9	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.5	UJL	µg/kg dry	5.9	3.5	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.9	UJL	µg/kg dry	5.9	3.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.0	UJL	µg/kg dry	5.9	4.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.5	UJL	µg/kg dry	5.9	2.5	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.2	UJL	µg/kg dry	5.9	4.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.4	UJL	µg/kg dry	5.9	3.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.4	UJL	µg/kg dry	5.9	1.4	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.3	UJL	µg/kg dry	5.9	3.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.4	UJL	µg/kg dry	5.9	2.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	UJL	µg/kg dry	5.9	1.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.0	UJL	µg/kg dry	5.9	4.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.5	UJL	µg/kg dry	5.9	3.5	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.6	UJL	µg/kg dry	5.9	3.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.5	UJL	µg/kg dry	5.9	3.5	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.9	UJL	µg/kg dry	5.9	3.9	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.4	UJL	µg/kg dry	11.8	3.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.7	UJL	µg/kg dry	5.9	3.7	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.6	UJL	µg/kg dry	11.8	8.6	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.3	UJL	µg/kg dry	5.9	5.3	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.4	UJL	µg/kg dry	5.9	3.4	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.7	UJL	µg/kg dry	5.9	1.7	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.6	UJL	µg/kg dry	5.9	1.6	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 35.1	UJL	µg/kg dry	58.8	35.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 79.3	UJL	µg/kg dry	118	79.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 14.5	UJL	µg/kg dry	29.4	14.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 671	UJL	µg/kg dry	2350	671	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	90			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-3 (8-10)
SB98283-02

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
14-Oct-14 10:00

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 39.0	U	µg/kg dry	73.1	39.0	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 40.4	U	µg/kg dry	73.1	40.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 37.0	U	µg/kg dry	73.1	37.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 59.2	U	µg/kg dry	73.1	59.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 32.0	U	µg/kg dry	73.1	32.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 29.6	U	µg/kg dry	73.1	29.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 39.8	U	µg/kg dry	73.1	39.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 45.6	U	µg/kg dry	73.1	45.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 53.6	U	µg/kg dry	73.1	53.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 38.4	U	µg/kg dry	73.1	38.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 36.2	U	µg/kg dry	73.1	36.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 39.3	U	µg/kg dry	73.1	39.3	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 39.1	U	µg/kg dry	73.1	39.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 38.8	U	µg/kg dry	73.1	38.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 38.9	U	µg/kg dry	73.1	38.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 40.4	U	µg/kg dry	73.1	40.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 38.4	U	µg/kg dry	73.1	38.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 54.7	U	µg/kg dry	73.1	54.7	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	63			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	68			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	88			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.151	U	mg/kg dry	1.59	0.151	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	9.64		mg/kg dry	1.59	0.562	1	"	"	"	"	"	X
7440-39-3	Barium	88.4		mg/kg dry	1.06	0.193	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.305	J	mg/kg dry	0.529	0.0709	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	17.9		mg/kg dry	1.06	0.192	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	< 0.0030	U	mg/kg dry	0.0305	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	11.1		mg/kg dry	1.59	0.737	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.799	J	mg/kg dry	1.59	0.748	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	90.6		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-4 (7-8) Client Project # NEW7442.P2 Matrix Soil Collection Date/Time 14-Oct-14 10:30 Received 18-Oct-14
 SB98283-03

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 5.97 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.3	UJL	µg/kg dry	5.3	4.3	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 28.1	UJL	µg/kg dry	53.4	28.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.3	UJL	µg/kg dry	5.3	5.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.2	UJL	µg/kg dry	5.3	4.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.1	UJL	µg/kg dry	5.3	5.1	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.5	UJL	µg/kg dry	10.7	10.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 18.0	UJL	µg/kg dry	53.4	18.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.4	UJL	µg/kg dry	5.3	4.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.8	UJL	µg/kg dry	5.3	3.8	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.7	UJL	µg/kg dry	10.7	2.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.6	UJL	µg/kg dry	5.3	2.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.6	UJL	µg/kg dry	10.7	4.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.8	UJL	µg/kg dry	5.3	2.8	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.5	UJL	µg/kg dry	10.7	10.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.4	UJL	µg/kg dry	5.3	2.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.8	UJL	µg/kg dry	5.3	2.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.9	UJL	µg/kg dry	10.7	6.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.2	UJL	µg/kg dry	5.3	1.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.0	UJL	µg/kg dry	5.3	3.0	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.5	UJL	µg/kg dry	5.3	2.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.8	UJL	µg/kg dry	5.3	3.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.0	UJL	µg/kg dry	5.3	3.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.9	UJL	µg/kg dry	10.7	3.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.7	UJL	µg/kg dry	5.3	2.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.7	UJL	µg/kg dry	5.3	3.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.4	UJL	µg/kg dry	5.3	2.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.9	UJL	µg/kg dry	5.3	1.9	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.4	UJL	µg/kg dry	5.3	3.4	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.4	UJL	µg/kg dry	5.3	1.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.7	UJL	µg/kg dry	5.3	2.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.8	UJL	µg/kg dry	5.3	1.8	1	"	"	"	"	"	X

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Sample Identification

SB-4 (7-8) Client Project # NEW7442.P2 Matrix Soil Collection Date/Time 14-Oct-14 10:30 Received 18-Oct-14

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)

Initial weight: 5.97 g

87-68-3	Hexachlorobutadiene	< 1.9	UJL	µg/kg dry	5.3	1.9	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 12.3	UJL	µg/kg dry	53.4	12.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.7	UJL	µg/kg dry	5.3	4.7	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.8	UJL	µg/kg dry	5.3	2.8	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 16.6	UJL	µg/kg dry	53.4	16.6	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.2	UJL	µg/kg dry	10.7	3.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.3	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.5	UJL	µg/kg dry	5.3	3.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.2	UJL	µg/kg dry	5.3	2.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.8	UJL	µg/kg dry	5.3	3.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.1	UJL	µg/kg dry	5.3	3.1	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.2	UJL	µg/kg dry	5.3	1.2	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.0	UJL	µg/kg dry	5.3	3.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.1	UJL	µg/kg dry	5.3	2.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.7	UJL	µg/kg dry	5.3	1.7	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.3	UJL	µg/kg dry	5.3	3.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.2	UJL	µg/kg dry	5.3	3.2	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.6	UJL	µg/kg dry	5.3	3.6	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.1	UJL	µg/kg dry	10.7	3.1	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.4	UJL	µg/kg dry	5.3	3.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.8	UJL	µg/kg dry	10.7	7.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.8	UJL	µg/kg dry	5.3	4.8	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.1	UJL	µg/kg dry	5.3	3.1	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.6	UJL	µg/kg dry	5.3	1.6	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.4	UJL	µg/kg dry	5.3	1.4	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 31.8	UJL	µg/kg dry	53.4	31.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 72.0	UJL	µg/kg dry	107	72.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 13.1	UJL	µg/kg dry	26.7	13.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 609	UJL	µg/kg dry	2130	609	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	94			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	90			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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

Sample Identification

SB-4 (7-8) Client Project # NEW7442.P2 Matrix Soil Collection Date/Time 14-Oct-14 10:30 Received 18-Oct-14
 SB98283-03

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 39.7	U	µg/kg dry	74.6	39.7	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 41.2	U	µg/kg dry	74.6	41.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 37.7	U	µg/kg dry	74.6	37.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 60.3	U	µg/kg dry	74.6	60.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 32.6	U	µg/kg dry	74.6	32.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 30.2	U	µg/kg dry	74.6	30.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 40.6	U	µg/kg dry	74.6	40.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 46.5	U	µg/kg dry	74.6	46.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 54.7	U	µg/kg dry	74.6	54.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 39.2	U	µg/kg dry	74.6	39.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 37.0	U	µg/kg dry	74.6	37.0	1	"	"	"	"	"	X
86-73-7	Fluorene	< 40.1	U	µg/kg dry	74.6	40.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 39.9	U	µg/kg dry	74.6	39.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 39.6	U	µg/kg dry	74.6	39.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 39.7	U	µg/kg dry	74.6	39.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 41.2	U	µg/kg dry	74.6	41.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 39.2	U	µg/kg dry	74.6	39.2	1	"	"	"	"	"	X
129-00-0	Pyrene	< 55.8	U	µg/kg dry	74.6	55.8	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	65			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	74			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	87			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.151	U	mg/kg dry	1.58	0.151	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.4		mg/kg dry	1.58	0.561	1	"	"	"	"	"	X
7440-39-3	Barium	117		mg/kg dry	1.06	0.192	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.367	J	mg/kg dry	0.528	0.0708	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	19.3		mg/kg dry	1.06	0.191	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0266	J	mg/kg dry	0.0313	0.0031	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	12.2		mg/kg dry	1.58	0.735	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.761	J	mg/kg dry	1.58	0.747	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	88.9		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-5 (12-13)

SB98283-04

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 11:29

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
Initial weight: 6.2 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.1	UJL	µg/kg dry	5.1	4.1	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	27.7	JL	µg/kg dry	50.8	26.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.8	UJL	µg/kg dry	5.1	1.8	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.0	UJL	µg/kg dry	5.1	5.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.0	UJL	µg/kg dry	5.1	4.0	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.9	UJL	µg/kg dry	5.1	4.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	UJL	µg/kg dry	10.2	10.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.1	UJL	µg/kg dry	50.8	17.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.2	UJL	µg/kg dry	5.1	4.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.3	UJL	µg/kg dry	5.1	3.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.6	UJL	µg/kg dry	5.1	3.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.5	UJL	µg/kg dry	10.2	2.5	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.5	UJL	µg/kg dry	5.1	2.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.8	UJL	µg/kg dry	5.1	1.8	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.4	UJL	µg/kg dry	10.2	4.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.6	UJL	µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	UJL	µg/kg dry	10.2	10.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.3	UJL	µg/kg dry	5.1	2.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.7	UJL	µg/kg dry	5.1	2.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.6	UJL	µg/kg dry	10.2	6.6	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.8	UJL	µg/kg dry	5.1	1.8	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.2	UJL	µg/kg dry	5.1	1.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.8	UJL	µg/kg dry	5.1	2.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.4	UJL	µg/kg dry	5.1	2.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.6	UJL	µg/kg dry	5.1	3.6	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.8	UJL	µg/kg dry	5.1	2.8	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.7	UJL	µg/kg dry	10.2	3.7	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.0	UJL	µg/kg dry	5.1	2.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.6	UJL	µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.7	UJL	µg/kg dry	5.1	1.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.5	UJL	µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.3	UJL	µg/kg dry	5.1	2.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.8	UJL	µg/kg dry	5.1	1.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.2	UJL	µg/kg dry	5.1	3.2	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.1	UJL	µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.3	UJL	µg/kg dry	5.1	1.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.6	UJL	µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.7	UJL	µg/kg dry	5.1	1.7	1	"	"	"	"	"	X

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Sample Identification

SB-5 (12-13)

SB98283-04

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 11:29

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 6.2 g

87-68-3	Hexachlorobutadiene	< 1.8	UJL	µg/kg dry	5.1	1.8	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 11.7	UJL	µg/kg dry	50.8	11.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.4	UJL	µg/kg dry	5.1	4.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.0	UJL	µg/kg dry	5.1	3.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.7	UJL	µg/kg dry	5.1	2.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.8	UJL	µg/kg dry	50.8	15.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.1	UJL	µg/kg dry	10.2	3.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.0	UJL	µg/kg dry	5.1	2.0	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.1	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.1	UJL	µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.3	UJL	µg/kg dry	5.1	3.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.1	UJL	µg/kg dry	5.1	2.1	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.6	UJL	µg/kg dry	5.1	3.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.0	UJL	µg/kg dry	5.1	3.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.2	UJL	µg/kg dry	5.1	1.2	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 2.9	UJL	µg/kg dry	5.1	2.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.0	UJL	µg/kg dry	5.1	2.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.6	UJL	µg/kg dry	5.1	1.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.5	UJL	µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.1	UJL	µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.1	UJL	µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.0	UJL	µg/kg dry	5.1	3.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.4	UJL	µg/kg dry	5.1	3.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.9	UJL	µg/kg dry	10.2	2.9	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.2	UJL	µg/kg dry	5.1	3.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.5	UJL	µg/kg dry	10.2	7.5	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.6	UJL	µg/kg dry	5.1	4.6	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.0	UJL	µg/kg dry	5.1	3.0	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.5	UJL	µg/kg dry	5.1	1.5	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.4	UJL	µg/kg dry	5.1	1.4	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 30.3	UJL	µg/kg dry	50.8	30.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 68.5	UJL	µg/kg dry	102	68.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 12.5	UJL	µg/kg dry	25.4	12.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 580	UJL	µg/kg dry	2030	580	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	98			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	93			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-5 (12-13)

SB98283-04

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

14-Oct-14 11:29

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 39.6	U	µg/kg dry	74.4	39.6	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 41.1	U	µg/kg dry	74.4	41.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 37.6	U	µg/kg dry	74.4	37.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 60.2	U	µg/kg dry	74.4	60.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 32.5	U	µg/kg dry	74.4	32.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 30.1	U	µg/kg dry	74.4	30.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 40.5	U	µg/kg dry	74.4	40.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 46.4	U	µg/kg dry	74.4	46.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 54.5	U	µg/kg dry	74.4	54.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 39.1	U	µg/kg dry	74.4	39.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 36.8	U	µg/kg dry	74.4	36.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 39.9	U	µg/kg dry	74.4	39.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 39.8	U	µg/kg dry	74.4	39.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 39.5	U	µg/kg dry	74.4	39.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 39.6	U	µg/kg dry	74.4	39.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 41.1	U	µg/kg dry	74.4	41.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 39.1	U	µg/kg dry	74.4	39.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 55.6	U	µg/kg dry	74.4	55.6	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	65			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	71			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	87			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.150	U	mg/kg dry	1.57	0.150	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.3		mg/kg dry	1.57	0.557	1	"	"	"	"	"	X
7440-39-3	Barium	70.1		mg/kg dry	1.05	0.191	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.327	J	mg/kg dry	0.524	0.0703	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	22.4		mg/kg dry	1.05	0.190	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0142	J	mg/kg dry	0.0320	0.0031	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	13.1		mg/kg dry	1.57	0.730	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.802	J	mg/kg dry	1.57	0.741	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	89.6		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

SB-11 (5-6)
SB98283-05

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 08:20

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
<u>Initial weight: 5.17 g</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.8	UJL	µg/kg dry	6.0	4.8	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 31.4	UJL	µg/kg dry	59.5	31.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	6.0	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.9	UJL	µg/kg dry	6.0	5.9	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.7	UJL	µg/kg dry	6.0	4.7	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.7	UJL	µg/kg dry	6.0	5.7	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.7	UJL	µg/kg dry	11.9	11.7	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.1	UJL	µg/kg dry	59.5	20.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.9	UJL	µg/kg dry	6.0	4.9	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.9	UJL	µg/kg dry	6.0	3.9	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.2	UJL	µg/kg dry	6.0	4.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 3.0	UJL	µg/kg dry	11.9	3.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.9	UJL	µg/kg dry	6.0	2.9	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.1	UJL	µg/kg dry	6.0	2.1	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.1	UJL	µg/kg dry	11.9	5.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.1	UJL	µg/kg dry	6.0	3.1	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.7	UJL	µg/kg dry	11.9	11.7	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.7	UJL	µg/kg dry	6.0	2.7	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.1	UJL	µg/kg dry	6.0	3.1	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.7	UJL	µg/kg dry	11.9	7.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.1	UJL	µg/kg dry	6.0	2.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.4	UJL	µg/kg dry	6.0	1.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.3	UJL	µg/kg dry	6.0	3.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.8	UJL	µg/kg dry	6.0	2.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.2	UJL	µg/kg dry	6.0	4.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.3	UJL	µg/kg dry	6.0	3.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.3	UJL	µg/kg dry	11.9	4.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.3	UJL	µg/kg dry	6.0	2.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.0	UJL	µg/kg dry	6.0	3.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.0	UJL	µg/kg dry	6.0	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.1	UJL	µg/kg dry	6.0	4.1	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.7	UJL	µg/kg dry	6.0	2.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.1	UJL	µg/kg dry	6.0	2.1	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.8	UJL	µg/kg dry	6.0	3.8	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.6	UJL	µg/kg dry	6.0	3.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.6	UJL	µg/kg dry	6.0	1.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.0	UJL	µg/kg dry	6.0	3.0	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.0	UJL	µg/kg dry	6.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-11 (5-6)
SB98283-05

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 08:20

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.17 g

87-68-3	Hexachlorobutadiene	< 2.2	UJL	µg/kg dry	6.0	2.2	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 13.7	UJL	µg/kg dry	59.5	13.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.2	UJL	µg/kg dry	6.0	5.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.5	UJL	µg/kg dry	6.0	3.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.1	UJL	µg/kg dry	6.0	3.1	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 18.5	UJL	µg/kg dry	59.5	18.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.6	UJL	µg/kg dry	11.9	3.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.4	UJL	µg/kg dry	6.0	2.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	UJL	µg/kg dry	6.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.6	UJL	µg/kg dry	6.0	3.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.9	UJL	µg/kg dry	6.0	3.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.5	UJL	µg/kg dry	6.0	2.5	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.2	UJL	µg/kg dry	6.0	4.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.5	UJL	µg/kg dry	6.0	3.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.4	UJL	µg/kg dry	6.0	1.4	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.4	UJL	µg/kg dry	6.0	3.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.4	UJL	µg/kg dry	6.0	2.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.9	UJL	µg/kg dry	6.0	1.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.1	UJL	µg/kg dry	6.0	4.1	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.6	UJL	µg/kg dry	6.0	3.6	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.7	UJL	µg/kg dry	6.0	3.7	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.6	UJL	µg/kg dry	6.0	3.6	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.0	UJL	µg/kg dry	6.0	4.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.4	UJL	µg/kg dry	11.9	3.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.8	UJL	µg/kg dry	6.0	3.8	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.7	UJL	µg/kg dry	11.9	8.7	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.4	UJL	µg/kg dry	6.0	5.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.5	UJL	µg/kg dry	6.0	3.5	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.8	UJL	µg/kg dry	6.0	1.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.6	UJL	µg/kg dry	6.0	1.6	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 35.5	UJL	µg/kg dry	59.5	35.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 80.3	UJL	µg/kg dry	119	80.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 14.7	UJL	µg/kg dry	29.8	14.7	1	"	"	"	"	"	X
64-17-5	Ethanol	< 679	UJL	µg/kg dry	2380	679	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	92			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-11 (5-6)
SB98283-05

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 08:20

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 39.5	U	µg/kg dry	74.1	39.5	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 40.9	U	µg/kg dry	74.1	40.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 37.5	U	µg/kg dry	74.1	37.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 59.9	U	µg/kg dry	74.1	59.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 32.4	U	µg/kg dry	74.1	32.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 30.0	U	µg/kg dry	74.1	30.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 40.3	U	µg/kg dry	74.1	40.3	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 46.2	U	µg/kg dry	74.1	46.2	1	"	"	"	"	"	X
218-01-9	Chrysene	< 54.3	U	µg/kg dry	74.1	54.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 38.9	U	µg/kg dry	74.1	38.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 36.7	U	µg/kg dry	74.1	36.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 39.8	U	µg/kg dry	74.1	39.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 39.6	U	µg/kg dry	74.1	39.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 39.3	U	µg/kg dry	74.1	39.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 39.4	U	µg/kg dry	74.1	39.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 40.9	U	µg/kg dry	74.1	40.9	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 38.9	U	µg/kg dry	74.1	38.9	1	"	"	"	"	"	X
129-00-0	Pyrene	< 55.4	U	µg/kg dry	74.1	55.4	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	69			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	75			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	88			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.159	U	mg/kg dry	1.67	0.159	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	8.12		mg/kg dry	1.67	0.590	1	"	"	"	"	"	X
7440-39-3	Barium	109		mg/kg dry	1.11	0.202	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.322	J	mg/kg dry	0.556	0.0745	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	21.8		mg/kg dry	1.11	0.201	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0111	J	mg/kg dry	0.0308	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	11.1		mg/kg dry	1.67	0.774	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	1.07	J	mg/kg dry	1.67	0.786	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

% Solids		89.8		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-13 (5-6)
SB98283-06

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 09:23

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260 R05													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.64 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 46.2	UJL, D	µg/kg dry	57.0	46.2	50	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
67-64-1	Acetone	< 300	UJL, D	µg/kg dry	570	300	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 38.1	UJL, D	µg/kg dry	57.0	38.1	50	"	"	"	"	"	X
71-43-2	Benzene	< 20.5	UJL, D	µg/kg dry	57.0	20.5	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 38.4	UJL, D	µg/kg dry	57.0	38.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 56.6	UJL, D	µg/kg dry	57.0	56.6	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 44.5	UJL, D	µg/kg dry	57.0	44.5	50	"	"	"	"	"	X
75-25-2	Bromoform	< 54.6	UJL, D	µg/kg dry	57.0	54.6	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 112	UJL, D	µg/kg dry	114	112	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 192	UJL, D	µg/kg dry	570	192	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 46.9	UJL, D	µg/kg dry	57.0	46.9	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 36.9	UJL, D	µg/kg dry	57.0	36.9	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 40.6	UJL, D	µg/kg dry	57.0	40.6	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 28.5	UJL, D	µg/kg dry	114	28.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 27.7	UJL, D	µg/kg dry	57.0	27.7	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 19.9	UJL, D	µg/kg dry	57.0	19.9	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 49.2	UJL, D	µg/kg dry	114	49.2	50	"	"	"	"	"	X
67-66-3	Chloroform	< 29.6	UJL, D	µg/kg dry	57.0	29.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 112	UJL, D	µg/kg dry	114	112	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 25.5	UJL, D	µg/kg dry	57.0	25.5	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 30.1	UJL, D	µg/kg dry	57.0	30.1	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 74.1	UJL, D	µg/kg dry	114	74.1	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 20.5	UJL, D	µg/kg dry	57.0	20.5	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 12.9	UJL, D	µg/kg dry	57.0	12.9	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 31.7	UJL, D	µg/kg dry	57.0	31.7	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	31.3	JL, D	µg/kg dry	57.0	26.7	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 40.5	UJL, D	µg/kg dry	57.0	40.5	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 31.5	UJL, D	µg/kg dry	57.0	31.5	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 41.4	UJL, D	µg/kg dry	114	41.4	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 22.2	UJL, D	µg/kg dry	57.0	22.2	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 29.0	UJL, D	µg/kg dry	57.0	29.0	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 38.1	UJL, D	µg/kg dry	57.0	38.1	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 19.3	UJL, D	µg/kg dry	57.0	19.3	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 39.2	UJL, D	µg/kg dry	57.0	39.2	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 25.8	UJL, D	µg/kg dry	57.0	25.8	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 19.9	UJL, D	µg/kg dry	57.0	19.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 35.9	UJL, D	µg/kg dry	57.0	35.9	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 34.5	UJL, D	µg/kg dry	57.0	34.5	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 15.0	UJL, D	µg/kg dry	57.0	15.0	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 28.8	UJL, D	µg/kg dry	57.0	28.8	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 19.1	UJL, D	µg/kg dry	57.0	19.1	50	"	"	"	"	"	X

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Sample Identification

SB-13 (5-6)
SB98283-06

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 09:23

Received
18-Oct-14

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													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.64 g													
87-68-3	Hexachlorobutadiene	< 20.7	UJL, D	µg/kg dry	57.0	20.7	50	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
591-78-6	2-Hexanone (MBK)	< 131	UJL, D	µg/kg dry	570	131	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 49.8	UJL, D	µg/kg dry	57.0	49.8	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 33.8	UJL, D	µg/kg dry	57.0	33.8	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 30.0	UJL, D	µg/kg dry	57.0	30.0	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 177	UJL, D	µg/kg dry	570	177	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 34.4	UJL, D	µg/kg dry	114	34.4	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 38.7	UJL, D	µg/kg dry	57.0	38.7	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 22.9	UJL, D	µg/kg dry	57.0	22.9	50	"	"	"	"	"	X
100-42-5	Styrene	< 3.4	UJL, D	µg/kg dry	57.0	3.4	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 34.2	UJL, D	µg/kg dry	57.0	34.2	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 37.4	UJL, D	µg/kg dry	57.0	37.4	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 38.7	UJL, D	µg/kg dry	57.0	38.7	50	"	"	"	"	"	X
108-88-3	Toluene	< 23.9	UJL, D	µg/kg dry	57.0	23.9	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 40.5	UJL, D	µg/kg dry	57.0	40.5	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 33.2	UJL, D	µg/kg dry	57.0	33.2	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 13.3	UJL, D	µg/kg dry	57.0	13.3	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 32.1	UJL, D	µg/kg dry	57.0	32.1	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 22.9	UJL, D	µg/kg dry	57.0	22.9	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 18.2	UJL, D	µg/kg dry	57.0	18.2	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 39.0	UJL, D	µg/kg dry	57.0	39.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 34.2	UJL, D	µg/kg dry	57.0	34.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 34.9	UJL, D	µg/kg dry	57.0	34.9	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 34.1	UJL, D	µg/kg dry	57.0	34.1	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 38.1	UJL, D	µg/kg dry	57.0	38.1	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 32.8	UJL, D	µg/kg dry	114	32.8	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 36.0	UJL, D	µg/kg dry	57.0	36.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 83.6	UJL, D	µg/kg dry	114	83.6	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 51.6	UJL, D	µg/kg dry	57.0	51.6	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 33.2	UJL, D	µg/kg dry	57.0	33.2	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 16.8	UJL, D	µg/kg dry	57.0	16.8	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 15.4	UJL, D	µg/kg dry	57.0	15.4	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 340	UJL, D	µg/kg dry	570	340	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 768	UJL, D	µg/kg dry	1140	768	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 140	UJL, D	µg/kg dry	285	140	50	"	"	"	"	"	X
64-17-5	Ethanol	< 6500	UJL, D	µg/kg dry	22800	6500	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	110			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-13 (5-6)
SB98283-06

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 09:23

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 38.4	U	µg/kg dry	72.0	38.4	1	SW846 8270D	20-Oct-14	23-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 39.8	U	µg/kg dry	72.0	39.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 36.4	U	µg/kg dry	72.0	36.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 58.2	U	µg/kg dry	72.0	58.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 31.5	U	µg/kg dry	72.0	31.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 29.1	U	µg/kg dry	72.0	29.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 39.2	U	µg/kg dry	72.0	39.2	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 44.9	U	µg/kg dry	72.0	44.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 52.8	U	µg/kg dry	72.0	52.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 37.8	U	µg/kg dry	72.0	37.8	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 35.7	U	µg/kg dry	72.0	35.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 38.7	U	µg/kg dry	72.0	38.7	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 38.5	U	µg/kg dry	72.0	38.5	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 38.2	U	µg/kg dry	72.0	38.2	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 38.3	U	µg/kg dry	72.0	38.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 39.8	U	µg/kg dry	72.0	39.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 37.8	U	µg/kg dry	72.0	37.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 53.9	U	µg/kg dry	72.0	53.9	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	70			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	84			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.150	U	mg/kg dry	1.57	0.150	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	6.26		mg/kg dry	1.57	0.557	1	"	"	"	"	"	X
7440-39-3	Barium	101		mg/kg dry	1.05	0.191	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.316	J	mg/kg dry	0.524	0.0703	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	18.0		mg/kg dry	1.05	0.190	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0124	J	mg/kg dry	0.0302	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	10.8		mg/kg dry	1.57	0.730	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	< 0.742	U	mg/kg dry	1.57	0.742	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	91.6		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-14 (8-10)

SB98283-07

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 10:10

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260 R05													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.06 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 194	UJL, D	µg/kg dry	239	194	200	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
67-64-1	Acetone	< 1260	UJL, D	µg/kg dry	2390	1260	200	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 160	UJL, D	µg/kg dry	239	160	200	"	"	"	"	"	X
71-43-2	Benzene	< 86.0	UJL, D	µg/kg dry	239	86.0	200	"	"	"	"	"	X
108-86-1	Bromobenzene	< 161	UJL, D	µg/kg dry	239	161	200	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 237	UJL, D	µg/kg dry	239	237	200	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 187	UJL, D	µg/kg dry	239	187	200	"	"	"	"	"	X
75-25-2	Bromoform	< 229	UJL, D	µg/kg dry	239	229	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 471	UJL, D	µg/kg dry	478	471	200	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 806	UJL, D	µg/kg dry	2390	806	200	"	"	"	"	"	X
104-51-8	n-Butylbenzene	1,730	D	µg/kg dry	239	197	200	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	1,580	D	µg/kg dry	239	155	200	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 170	UJL, D	µg/kg dry	239	170	200	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 119	UJL, D	µg/kg dry	478	119	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 116	UJL, D	µg/kg dry	239	116	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 83.6	UJL, D	µg/kg dry	239	83.6	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 206	UJL, D	µg/kg dry	478	206	200	"	"	"	"	"	X
67-66-3	Chloroform	< 124	UJL, D	µg/kg dry	239	124	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 468	UJL, D	µg/kg dry	478	468	200	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 107	UJL, D	µg/kg dry	239	107	200	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 126	UJL, D	µg/kg dry	239	126	200	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 311	UJL, D	µg/kg dry	478	311	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 86.0	UJL, D	µg/kg dry	239	86.0	200	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 54.2	UJL, D	µg/kg dry	239	54.2	200	"	"	"	"	"	X
74-95-3	Dibromomethane	< 133	UJL, D	µg/kg dry	239	133	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 112	UJL, D	µg/kg dry	239	112	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 170	UJL, D	µg/kg dry	239	170	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 132	UJL, D	µg/kg dry	239	132	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 174	UJL, D	µg/kg dry	478	174	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 93.2	UJL, D	µg/kg dry	239	93.2	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 122	UJL, D	µg/kg dry	239	122	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 160	UJL, D	µg/kg dry	239	160	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 81.0	UJL, D	µg/kg dry	239	81.0	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 164	UJL, D	µg/kg dry	239	164	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 108	UJL, D	µg/kg dry	239	108	200	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 83.6	UJL, D	µg/kg dry	239	83.6	200	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 151	UJL, D	µg/kg dry	239	151	200	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 145	UJL, D	µg/kg dry	239	145	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 62.8	UJL, D	µg/kg dry	239	62.8	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 121	UJL, D	µg/kg dry	239	121	200	"	"	"	"	"	X
100-41-4	Ethylbenzene	944	D	µg/kg dry	239	80.1	200	"	"	"	"	"	X

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Sample Identification

SB-14 (8-10)

SB98283-07

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 10:10

Received

18-Oct-14

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													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.06 g													
87-68-3	Hexachlorobutadiene	< 86.7	UJL, D	µg/kg dry	239	86.7	200	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
591-78-6	2-Hexanone (MBK)	< 550	UJL, D	µg/kg dry	2390	550	200	"	"	"	"	"	X
98-82-8	Isopropylbenzene	810	D	µg/kg dry	239	209	200	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 142	UJL, D	µg/kg dry	239	142	200	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 126	UJL, D	µg/kg dry	239	126	200	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 742	UJL, D	µg/kg dry	2390	742	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 144	UJL, D	µg/kg dry	478	144	200	"	"	"	"	"	X
91-20-3	Naphthalene	< 162	UJL, D	µg/kg dry	239	162	200	"	"	"	"	"	X
103-65-1	n-Propylbenzene	1,560	D	µg/kg dry	239	96.1	200	"	"	"	"	"	X
100-42-5	Styrene	< 14.1	UJL, D	µg/kg dry	239	14.1	200	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 144	UJL, D	µg/kg dry	239	144	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 157	UJL, D	µg/kg dry	239	157	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 162	UJL, D	µg/kg dry	239	162	200	"	"	"	"	"	X
108-88-3	Toluene	< 100	UJL, D	µg/kg dry	239	100	200	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 170	UJL, D	µg/kg dry	239	170	200	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 139	UJL, D	µg/kg dry	239	139	200	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 55.9	UJL, D	µg/kg dry	239	55.9	200	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 135	UJL, D	µg/kg dry	239	135	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 96.1	UJL, D	µg/kg dry	239	96.1	200	"	"	"	"	"	X
79-01-6	Trichloroethene	< 76.5	UJL, D	µg/kg dry	239	76.5	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 163	UJL, D	µg/kg dry	239	163	200	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 144	UJL, D	µg/kg dry	239	144	200	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 146	UJL, D	µg/kg dry	239	146	200	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 143	UJL, D	µg/kg dry	239	143	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 160	UJL, D	µg/kg dry	239	160	200	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 137	UJL, D	µg/kg dry	478	137	200	"	"	"	"	"	X
95-47-6	o-Xylene	< 151	UJL, D	µg/kg dry	239	151	200	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 351	UJL, D	µg/kg dry	478	351	200	"	"	"	"	"	X
60-29-7	Ethyl ether	< 216	UJL, D	µg/kg dry	239	216	200	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 139	UJL, D	µg/kg dry	239	139	200	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 70.5	UJL, D	µg/kg dry	239	70.5	200	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 64.8	UJL, D	µg/kg dry	239	64.8	200	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 1420	UJL, D	µg/kg dry	2390	1420	200	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 3220	UJL, D	µg/kg dry	4780	3220	200	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 589	UJL, D	µg/kg dry	1190	589	200	"	"	"	"	"	X
64-17-5	Ethanol	< 27300	UJL, D	µg/kg dry	95600	27300	200	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	109			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	104			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	113			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	103			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-14 (8-10)

SB98283-07

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 10:10

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3545A

83-32-9	Acenaphthene	938	D	µg/kg dry	730	389	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 403	U, D	µg/kg dry	730	403	10	"	"	"	"	"	X
120-12-7	Anthracene	500	J, D	µg/kg dry	730	369	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 591	U, D	µg/kg dry	730	591	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 320	U, D	µg/kg dry	730	320	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 296	U, D	µg/kg dry	730	296	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 398	U, D	µg/kg dry	730	398	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 456	U, D	µg/kg dry	730	456	10	"	"	"	"	"	X
218-01-9	Chrysene	< 535	U, D	µg/kg dry	730	535	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 384	U, D	µg/kg dry	730	384	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 362	U, D	µg/kg dry	730	362	10	"	"	"	"	"	X
86-73-7	Fluorene	1,970	D	µg/kg dry	730	392	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 391	U, D	µg/kg dry	730	391	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	10,600	D	µg/kg dry	730	388	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	18,000	D	µg/kg dry	730	389	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 403	U, D	µg/kg dry	730	403	10	"	"	"	"	"	X
85-01-8	Phenanthrene	4,020	D	µg/kg dry	730	384	10	"	"	"	"	"	X
129-00-0	Pyrene	679	J, D	µg/kg dry	730	546	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	85			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	90			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	128			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.152	U	mg/kg dry	1.59	0.152	1	SW846 6010C	23-Oct-14	27-Oct-14	BJW	1424984	X
7440-38-2	Arsenic	19.7		mg/kg dry	1.59	0.564	1	"	"	25-Oct-14	"	"	X
7440-39-3	Barium	59.7		mg/kg dry	1.06	0.193	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.430	J	mg/kg dry	0.531	0.0712	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	26.3		mg/kg dry	1.06	0.192	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0136	J	mg/kg dry	0.0311	0.0031	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	26.1		mg/kg dry	1.59	0.739	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.898	J	mg/kg dry	1.59	0.751	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	90.9		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-16 (8-9)
SB98283-08

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 11:10

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260 R05													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.21 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 183	UJL, D	µg/kg dry	227	183	200	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
67-64-1	Acetone	< 1190	UJL, D	µg/kg dry	2270	1190	200	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 152	UJL, D	µg/kg dry	227	152	200	"	"	"	"	"	X
71-43-2	Benzene	< 81.5	UJL, D	µg/kg dry	227	81.5	200	"	"	"	"	"	X
108-86-1	Bromobenzene	< 153	UJL, D	µg/kg dry	227	153	200	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 225	UJL, D	µg/kg dry	227	225	200	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 177	UJL, D	µg/kg dry	227	177	200	"	"	"	"	"	X
75-25-2	Bromoform	< 217	UJL, D	µg/kg dry	227	217	200	"	"	"	"	"	X
74-83-9	Bromomethane	< 447	UJL, D	µg/kg dry	453	447	200	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 764	UJL, D	µg/kg dry	2270	764	200	"	"	"	"	"	X
104-51-8	n-Butylbenzene	2,100	D	µg/kg dry	227	187	200	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	1,970	D	µg/kg dry	227	147	200	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 162	UJL, D	µg/kg dry	227	162	200	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 113	UJL, D	µg/kg dry	453	113	200	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 110	UJL, D	µg/kg dry	227	110	200	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 79.3	UJL, D	µg/kg dry	227	79.3	200	"	"	"	"	"	X
75-00-3	Chloroethane	< 195	UJL, D	µg/kg dry	453	195	200	"	"	"	"	"	X
67-66-3	Chloroform	< 118	UJL, D	µg/kg dry	227	118	200	"	"	"	"	"	X
74-87-3	Chloromethane	< 444	UJL, D	µg/kg dry	453	444	200	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 101	UJL, D	µg/kg dry	227	101	200	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 120	UJL, D	µg/kg dry	227	120	200	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 295	UJL, D	µg/kg dry	453	295	200	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 81.5	UJL, D	µg/kg dry	227	81.5	200	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 51.4	UJL, D	µg/kg dry	227	51.4	200	"	"	"	"	"	X
74-95-3	Dibromomethane	< 126	UJL, D	µg/kg dry	227	126	200	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 106	UJL, D	µg/kg dry	227	106	200	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 161	UJL, D	µg/kg dry	227	161	200	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 125	UJL, D	µg/kg dry	227	125	200	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 165	UJL, D	µg/kg dry	453	165	200	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 88.3	UJL, D	µg/kg dry	227	88.3	200	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 115	UJL, D	µg/kg dry	227	115	200	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 151	UJL, D	µg/kg dry	227	151	200	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 76.8	UJL, D	µg/kg dry	227	76.8	200	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 156	UJL, D	µg/kg dry	227	156	200	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 102	UJL, D	µg/kg dry	227	102	200	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 79.3	UJL, D	µg/kg dry	227	79.3	200	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 143	UJL, D	µg/kg dry	227	143	200	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 137	UJL, D	µg/kg dry	227	137	200	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 59.6	UJL, D	µg/kg dry	227	59.6	200	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 115	UJL, D	µg/kg dry	227	115	200	"	"	"	"	"	X
100-41-4	Ethylbenzene	1,010	D	µg/kg dry	227	75.9	200	"	"	"	"	"	X

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Sample Identification

SB-16 (8-9)
SB98283-08

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 11:10

Received
18-Oct-14

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													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.21 g													
87-68-3	Hexachlorobutadiene	< 82.2	UJL, D	µg/kg dry	227	82.2	200	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
591-78-6	2-Hexanone (MBK)	< 521	UJL, D	µg/kg dry	2270	521	200	"	"	"	"	"	X
98-82-8	Isopropylbenzene	1,030	D	µg/kg dry	227	198	200	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 134	UJL, D	µg/kg dry	227	134	200	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 119	UJL, D	µg/kg dry	227	119	200	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 703	UJL, D	µg/kg dry	2270	703	200	"	"	"	"	"	X
75-09-2	Methylene chloride	< 137	UJL, D	µg/kg dry	453	137	200	"	"	"	"	"	X
91-20-3	Naphthalene	< 154	UJL, D	µg/kg dry	227	154	200	"	"	"	"	"	X
103-65-1	n-Propylbenzene	1,800	D	µg/kg dry	227	91.1	200	"	"	"	"	"	X
100-42-5	Styrene	< 13.4	UJL, D	µg/kg dry	227	13.4	200	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 136	UJL, D	µg/kg dry	227	136	200	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 149	UJL, D	µg/kg dry	227	149	200	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 154	UJL, D	µg/kg dry	227	154	200	"	"	"	"	"	X
108-88-3	Toluene	< 95.1	UJL, D	µg/kg dry	227	95.1	200	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 161	UJL, D	µg/kg dry	227	161	200	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 132	UJL, D	µg/kg dry	227	132	200	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 53.0	UJL, D	µg/kg dry	227	53.0	200	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 128	UJL, D	µg/kg dry	227	128	200	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 91.1	UJL, D	µg/kg dry	227	91.1	200	"	"	"	"	"	X
79-01-6	Trichloroethene	< 72.5	UJL, D	µg/kg dry	227	72.5	200	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 155	UJL, D	µg/kg dry	227	155	200	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 136	UJL, D	µg/kg dry	227	136	200	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 139	UJL, D	µg/kg dry	227	139	200	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 136	UJL, D	µg/kg dry	227	136	200	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 151	UJL, D	µg/kg dry	227	151	200	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 130	UJL, D	µg/kg dry	453	130	200	"	"	"	"	"	X
95-47-6	o-Xylene	< 143	UJL, D	µg/kg dry	227	143	200	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 333	UJL, D	µg/kg dry	453	333	200	"	"	"	"	"	X
60-29-7	Ethyl ether	< 205	UJL, D	µg/kg dry	227	205	200	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 132	UJL, D	µg/kg dry	227	132	200	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 66.8	UJL, D	µg/kg dry	227	66.8	200	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 61.4	UJL, D	µg/kg dry	227	61.4	200	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 1350	UJL, D	µg/kg dry	2270	1350	200	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 3050	UJL, D	µg/kg dry	4530	3050	200	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 558	UJL, D	µg/kg dry	1130	558	200	"	"	"	"	"	X
64-17-5	Ethanol	< 25800	UJL, D	µg/kg dry	90600	25800	200	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	108			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	110			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-16 (8-9)
SB98283-08

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
15-Oct-14 11:10

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3545A

83-32-9	Acenaphthene	1,220	D	µg/kg dry	714	380	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 394	U, D	µg/kg dry	714	394	10	"	"	"	"	"	X
120-12-7	Anthracene	921	D	µg/kg dry	714	361	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 578	U, D	µg/kg dry	714	578	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 312	U, D	µg/kg dry	714	312	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 289	U, D	µg/kg dry	714	289	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 389	U, D	µg/kg dry	714	389	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 446	U, D	µg/kg dry	714	446	10	"	"	"	"	"	X
218-01-9	Chrysene	< 523	U, D	µg/kg dry	714	523	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 375	U, D	µg/kg dry	714	375	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 354	U, D	µg/kg dry	714	354	10	"	"	"	"	"	X
86-73-7	Fluorene	2,880	D	µg/kg dry	714	384	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 382	U, D	µg/kg dry	714	382	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	11,300	D	µg/kg dry	714	379	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	7,200	D	µg/kg dry	714	380	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 394	U, D	µg/kg dry	714	394	10	"	"	"	"	"	X
85-01-8	Phenanthrene	5,560	D	µg/kg dry	714	375	10	"	"	"	"	"	X
129-00-0	Pyrene	1,230	D	µg/kg dry	714	534	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	86			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	98			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	144	S06		30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.140	U	mg/kg dry	1.47	0.140	1	SW846 6010C	23-Oct-14	27-Oct-14	BJW	1424984	X
7440-38-2	Arsenic	12.2		mg/kg dry	1.47	0.521	1	"	"	25-Oct-14	"	"	X
7440-39-3	Barium	45.1		mg/kg dry	0.981	0.178	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.383	J	mg/kg dry	0.490	0.0657	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	20.8		mg/kg dry	0.981	0.177	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0334		mg/kg dry	0.0309	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	18.5		mg/kg dry	1.47	0.683	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.917	J	mg/kg dry	1.47	0.693	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

% Solids	93.1			%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-20 (10-11)

SB98283-09

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 14:00

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260 GS1													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.34 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 45.6	UJL, D	µg/kg dry	56.2	45.6	50	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
67-64-1	Acetone	< 297	UJL, D	µg/kg dry	562	297	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 37.6	UJL, D	µg/kg dry	56.2	37.6	50	"	"	"	"	"	X
71-43-2	Benzene	< 20.2	UJL, D	µg/kg dry	56.2	20.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 37.9	UJL, D	µg/kg dry	56.2	37.9	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 55.8	UJL, D	µg/kg dry	56.2	55.8	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 43.9	UJL, D	µg/kg dry	56.2	43.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 53.9	UJL, D	µg/kg dry	56.2	53.9	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 111	UJL, D	µg/kg dry	112	111	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 190	UJL, D	µg/kg dry	562	190	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	409	D	µg/kg dry	56.2	46.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	770	D	µg/kg dry	56.2	36.4	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 40.1	UJL, D	µg/kg dry	56.2	40.1	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 28.1	UJL, D	µg/kg dry	112	28.1	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 27.4	UJL, D	µg/kg dry	56.2	27.4	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 19.7	UJL, D	µg/kg dry	56.2	19.7	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 48.5	UJL, D	µg/kg dry	112	48.5	50	"	"	"	"	"	X
67-66-3	Chloroform	< 29.2	UJL, D	µg/kg dry	56.2	29.2	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 110	UJL, D	µg/kg dry	112	110	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 25.2	UJL, D	µg/kg dry	56.2	25.2	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 29.7	UJL, D	µg/kg dry	56.2	29.7	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 73.2	UJL, D	µg/kg dry	112	73.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 20.2	UJL, D	µg/kg dry	56.2	20.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 12.8	UJL, D	µg/kg dry	56.2	12.8	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 31.3	UJL, D	µg/kg dry	56.2	31.3	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 26.3	UJL, D	µg/kg dry	56.2	26.3	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 40.0	UJL, D	µg/kg dry	56.2	40.0	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 31.1	UJL, D	µg/kg dry	56.2	31.1	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 40.9	UJL, D	µg/kg dry	112	40.9	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 21.9	UJL, D	µg/kg dry	56.2	21.9	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 28.6	UJL, D	µg/kg dry	56.2	28.6	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 37.6	UJL, D	µg/kg dry	56.2	37.6	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 19.1	UJL, D	µg/kg dry	56.2	19.1	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 38.7	UJL, D	µg/kg dry	56.2	38.7	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 25.4	UJL, D	µg/kg dry	56.2	25.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 19.7	UJL, D	µg/kg dry	56.2	19.7	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 35.4	UJL, D	µg/kg dry	56.2	35.4	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 34.0	UJL, D	µg/kg dry	56.2	34.0	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 14.8	UJL, D	µg/kg dry	56.2	14.8	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 28.5	UJL, D	µg/kg dry	56.2	28.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	141	JL, D	µg/kg dry	56.2	18.8	50	"	"	"	"	"	X

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Sample Identification

SB-20 (10-11)

SB98283-09

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 14:00

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 GS1													
Prepared by method SW846 5035A Soil (high level) Initial weight: 15.34 g													
87-68-3	Hexachlorobutadiene	< 20.4	UJL, D	µg/kg dry	56.2	20.4	50	SW846 8260C	21-Oct-14	21-Oct-14	SJB	1424801	X
591-78-6	2-Hexanone (MBK)	< 129	UJL, D	µg/kg dry	562	129	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	232	D	µg/kg dry	56.2	49.2	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 33.3	UJL, D	µg/kg dry	56.2	33.3	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 29.6	UJL, D	µg/kg dry	56.2	29.6	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 175	UJL, D	µg/kg dry	562	175	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 33.9	UJL, D	µg/kg dry	112	33.9	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 38.2	UJL, D	µg/kg dry	56.2	38.2	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	366	D	µg/kg dry	56.2	22.6	50	"	"	"	"	"	X
100-42-5	Styrene	< 3.3	UJL, D	µg/kg dry	56.2	3.3	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 33.8	UJL, D	µg/kg dry	56.2	33.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 36.9	UJL, D	µg/kg dry	56.2	36.9	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 38.2	UJL, D	µg/kg dry	56.2	38.2	50	"	"	"	"	"	X
108-88-3	Toluene	< 23.6	UJL, D	µg/kg dry	56.2	23.6	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 39.9	UJL, D	µg/kg dry	56.2	39.9	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 32.8	UJL, D	µg/kg dry	56.2	32.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 13.2	UJL, D	µg/kg dry	56.2	13.2	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 31.7	UJL, D	µg/kg dry	56.2	31.7	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 22.6	UJL, D	µg/kg dry	56.2	22.6	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 18.0	UJL, D	µg/kg dry	56.2	18.0	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 38.5	UJL, D	µg/kg dry	56.2	38.5	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 33.8	UJL, D	µg/kg dry	56.2	33.8	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	128	JL, D	µg/kg dry	56.2	34.5	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 33.7	UJL, D	µg/kg dry	56.2	33.7	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 37.6	UJL, D	µg/kg dry	56.2	37.6	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 32.3	UJL, D	µg/kg dry	112	32.3	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 35.5	UJL, D	µg/kg dry	56.2	35.5	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 82.6	UJL, D	µg/kg dry	112	82.6	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 50.9	UJL, D	µg/kg dry	56.2	50.9	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 32.8	UJL, D	µg/kg dry	56.2	32.8	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 16.6	UJL, D	µg/kg dry	56.2	16.6	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 15.2	UJL, D	µg/kg dry	56.2	15.2	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 335	UJL, D	µg/kg dry	562	335	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 758	UJL, D	µg/kg dry	1120	758	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 139	UJL, D	µg/kg dry	281	139	50	"	"	"	"	"	X
64-17-5	Ethanol	< 6420	UJL, D	µg/kg dry	22500	6420	50	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	112			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	108			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-20 (10-11)

SB98283-09

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 14:00

Received

18-Oct-14

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													
R05													
<u>Prepared by method SW846 3545A</u>													
83-32-9	Acenaphthene	303	J, D	µg/kg dry	357	190	5	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 197	U, D	µg/kg dry	357	197	5	"	"	"	"	"	X
120-12-7	Anthracene	321	J, D	µg/kg dry	357	180	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 288	U, D	µg/kg dry	357	288	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 156	U, D	µg/kg dry	357	156	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 144	U, D	µg/kg dry	357	144	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 194	U, D	µg/kg dry	357	194	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 223	U, D	µg/kg dry	357	223	5	"	"	"	"	"	X
218-01-9	Chrysene	< 261	U, D	µg/kg dry	357	261	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 187	U, D	µg/kg dry	357	187	5	"	"	"	"	"	X
206-44-0	Fluoranthene	< 177	U, D	µg/kg dry	357	177	5	"	"	"	"	"	X
86-73-7	Fluorene	410	D	µg/kg dry	357	192	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 191	U, D	µg/kg dry	357	191	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	483	D	µg/kg dry	357	189	5	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 190	U, D	µg/kg dry	357	190	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 197	U, D	µg/kg dry	357	197	5	"	"	"	"	"	X
85-01-8	Phenanthrene	770	D	µg/kg dry	357	187	5	"	"	"	"	"	X
129-00-0	Pyrene	428	D	µg/kg dry	357	267	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	2-Fluorobiphenyl	76			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	81			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	104			30-130 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.147	U	mg/kg dry	1.54	0.147	1	SW846 6010C	23-Oct-14	27-Oct-14	BJW	1424984	X
7440-38-2	Arsenic	14.1		mg/kg dry	1.54	0.544	1	"	"	25-Oct-14	"	"	X
7440-39-3	Barium	57.4		mg/kg dry	1.03	0.187	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.401	J	mg/kg dry	0.513	0.0687	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	24.8		mg/kg dry	1.03	0.186	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0197	J	mg/kg dry	0.0295	0.0029	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	22.7		mg/kg dry	1.54	0.713	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.907	J	mg/kg dry	1.54	0.725	1	"	"	25-Oct-14	"	"	X
General Chemistry Parameters													
	% Solids	93.1		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	

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Sample Identification

SB-22 (10-11)

SB98283-10

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 15:20

Received

18-Oct-14

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

VOC Extraction

Lab
extracted

N/A

1

VOC Soil
Extraction

20-Oct-14

20-Oct-14

BD

1424705

Re-analysis of Volatile Organic Compounds

by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.15 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.5	UJL	µg/kg dry	5.6	4.5	1	SW846 8260C	22-Oct-14	22-Oct-14	JEG	1424920	X
67-64-1	Acetone	< 29.5	UJL	µg/kg dry	55.9	29.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.6	UJL	µg/kg dry	5.6	5.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.4	UJL	µg/kg dry	5.6	4.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.4	UJL	µg/kg dry	5.6	5.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.0	UJL	µg/kg dry	11.2	11.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 18.9	UJL	µg/kg dry	55.9	18.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.6	UJL	µg/kg dry	5.6	4.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.6	UJL	µg/kg dry	5.6	3.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.8	UJL	µg/kg dry	11.2	2.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.7	UJL	µg/kg dry	5.6	2.7	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.8	UJL	µg/kg dry	11.2	4.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.9	UJL	µg/kg dry	5.6	2.9	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.0	UJL	µg/kg dry	11.2	11.0	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.5	UJL	µg/kg dry	5.6	2.5	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.0	UJL	µg/kg dry	5.6	3.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.3	UJL	µg/kg dry	11.2	7.3	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.3	UJL	µg/kg dry	5.6	1.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.1	UJL	µg/kg dry	5.6	3.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.6	UJL	µg/kg dry	5.6	2.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.1	UJL	µg/kg dry	5.6	3.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.1	UJL	µg/kg dry	11.2	4.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.8	UJL	µg/kg dry	5.6	2.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.9	UJL	µg/kg dry	5.6	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.5	UJL	µg/kg dry	5.6	2.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.5	UJL	µg/kg dry	5.6	3.5	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.5	UJL	µg/kg dry	5.6	1.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.8	UJL	µg/kg dry	5.6	2.8	1	"	"	"	"	"	X

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Sample Identification

SB-22 (10-11)

SB98283-10

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 15:20

Received

18-Oct-14

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

Re-analysis of Volatile Organic Compounds

by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.15 g

100-41-4	Ethylbenzene	< 1.9	UJL	µg/kg dry	5.6	1.9	1	SW846 8260C	22-Oct-14	22-Oct-14	JEG	1424920	X
87-68-3	Hexachlorobutadiene	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.9	UJL	µg/kg dry	55.9	12.9	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.9	UJL	µg/kg dry	5.6	4.9	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.3	UJL	µg/kg dry	5.6	3.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.9	UJL	µg/kg dry	5.6	2.9	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 17.4	UJL	µg/kg dry	55.9	17.4	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.4	UJL	µg/kg dry	11.2	3.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.6	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.3	UJL	µg/kg dry	5.6	2.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.3	UJL	µg/kg dry	5.6	3.3	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.3	UJL	µg/kg dry	5.6	1.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.1	UJL	µg/kg dry	5.6	3.1	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.8	UJL	µg/kg dry	5.6	1.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.3	UJL	µg/kg dry	5.6	3.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.2	UJL	µg/kg dry	11.2	3.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.5	UJL	µg/kg dry	5.6	3.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.2	UJL	µg/kg dry	11.2	8.2	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.1	UJL	µg/kg dry	5.6	5.1	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.3	UJL	µg/kg dry	5.6	3.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.6	UJL	µg/kg dry	5.6	1.6	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.5	UJL	µg/kg dry	5.6	1.5	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 33.3	UJL	µg/kg dry	55.9	33.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 75.4	UJL	µg/kg dry	112	75.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 13.8	UJL	µg/kg dry	28.0	13.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 638	UJL	µg/kg dry	2240	638	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	101			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	96			70-130 %			"	"	"	"	"	

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Sample Identification

SB-22 (10-11)

SB98283-10

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

15-Oct-14 15:20

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 37.9	U	µg/kg dry	71.2	37.9	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 39.3	U	µg/kg dry	71.2	39.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 36.0	U	µg/kg dry	71.2	36.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 57.6	U	µg/kg dry	71.2	57.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 31.1	U	µg/kg dry	71.2	31.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 28.8	U	µg/kg dry	71.2	28.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 38.8	U	µg/kg dry	71.2	38.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 44.4	U	µg/kg dry	71.2	44.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 52.2	U	µg/kg dry	71.2	52.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 37.4	U	µg/kg dry	71.2	37.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 35.3	U	µg/kg dry	71.2	35.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 38.2	U	µg/kg dry	71.2	38.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 38.1	U	µg/kg dry	71.2	38.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 37.8	U	µg/kg dry	71.2	37.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 37.9	U	µg/kg dry	71.2	37.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 39.3	U	µg/kg dry	71.2	39.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 37.4	U	µg/kg dry	71.2	37.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 53.2	U	µg/kg dry	71.2	53.2	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	66			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	93			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.145	U	mg/kg dry	1.52	0.145	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.7		mg/kg dry	1.52	0.537	1	"	"	"	"	"	X
7440-39-3	Barium	75.7		mg/kg dry	1.01	0.184	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.309	J	mg/kg dry	0.506	0.0678	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	19.4		mg/kg dry	1.01	0.183	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0238	J	mg/kg dry	0.0298	0.0029	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	13.0		mg/kg dry	1.52	0.704	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.870	J	mg/kg dry	1.52	0.715	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	93.0		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-29
SB98283-11

Client Project #
NEW7442.P2

Matrix
Ground Water

Collection Date/Time
16-Oct-14 12:00

Received
18-Oct-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	< 3.6	U	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-29

SB98283-11

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

16-Oct-14 12:00

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5030 Water MS

98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	105			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

83-32-9	Acenaphthene	< 1.10	U	µg/l	5.21	1.10	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-29

SB98283-11

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

16-Oct-14 12:00

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 0.908	U	µg/l	5.21	0.908	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	< 1.10	U	µg/l	5.21	1.10	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1.24	U	µg/l	5.21	1.24	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 0.912	U	µg/l	5.21	0.912	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.889	U	µg/l	5.21	0.889	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1.55	U	µg/l	5.21	1.55	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1.16	U	µg/l	5.21	1.16	1	"	"	"	"	"	X
218-01-9	Chrysene	< 1.19	U	µg/l	5.21	1.19	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1.60	U	µg/l	5.21	1.60	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 1.22	U	µg/l	5.21	1.22	1	"	"	"	"	"	X
86-73-7	Fluorene	< 1.30	U	µg/l	5.21	1.30	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1.82	U	µg/l	5.21	1.82	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 0.978	U	µg/l	5.21	0.978	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.20	U	µg/l	5.21	1.20	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.944	U	µg/l	5.21	0.944	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 0.953	U	µg/l	5.21	0.953	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.81	U	µg/l	5.21	2.81	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	64			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	73			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	81			30-130 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Lab Preserved		N/A				1	EPA 200/6000 methods	21-Oct-14	21-Oct-14	YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0550	U,LIV	mg/l	0.250	0.0550	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	0.528	R01,LIV	mg/l	0.200	0.0950	1	"	"	"	"	"	X
7440-39-3	Barium	5.44	R01,LIV	mg/l	0.250	0.0375	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0600	R01, U,LIV	mg/l	0.125	0.0600	1	"	"	"	"	"	X
7440-47-3	Chromium	1.47	R01,LIV	mg/l	0.250	0.0675	1	"	"	"	"	"	X
7439-92-1	Lead	1.06	R01,LIV	mg/l	0.375	0.162	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.335	R01, U,LIV	mg/l	0.750	0.335	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00157	R01, U,LIV	mg/l	0.00400	0.00157	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-20

SB98283-12

Client Project

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

15-Oct-14 14:05

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	< 3.6	U	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	0.6	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	4.8		µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	12.6		µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	0.5	J	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	9.6		µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-20

SB98283-12

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

15-Oct-14 14:05

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5030 Water MS

98-82-8	Isopropylbenzene	12.8		µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	1.4		µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	13.4		µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	0.5	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

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	103			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

83-32-9	Acenaphthene	12.9		µg/l	6.25	1.32	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-20
SB98283-12

Client Project #
NEW7442.P2

Matrix
Ground Water

Collection Date/Time
15-Oct-14 14:05

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 1.09	U	µg/l	6.25	1.09	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	11.7		µg/l	6.25	1.32	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1.49	U	µg/l	6.25	1.49	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1.10	U	µg/l	6.25	1.10	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1.07	U	µg/l	6.25	1.07	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1.86	U	µg/l	6.25	1.86	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1.40	U	µg/l	6.25	1.40	1	"	"	"	"	"	X
218-01-9	Chrysene	< 1.42	U	µg/l	6.25	1.42	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1.92	U	µg/l	6.25	1.92	1	"	"	"	"	"	X
206-44-0	Fluoranthene	2.48	J	µg/l	6.25	1.46	1	"	"	"	"	"	X
86-73-7	Fluorene	19.8		µg/l	6.25	1.56	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.18	U	µg/l	6.25	2.18	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	32.6		µg/l	6.25	1.17	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.44	U	µg/l	6.25	1.44	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.13	U	µg/l	6.25	1.13	1	"	"	"	"	"	X
85-01-8	Phenanthrene	35.7		µg/l	6.25	1.14	1	"	"	"	"	"	X
129-00-0	Pyrene	15.8		µg/l	6.25	3.37	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	69			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	74			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	91			30-130 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Lab Preserved		N/A				1	EPA 200/6000 methods	21-Oct-14	21-Oct-14	YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0550	R01, U,LIV	mg/l	0.250	0.0550	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	2.03	R01,LIV	mg/l	0.200	0.0950	1	"	"	"	"	"	X
7440-39-3	Barium	36.4	R01,LIV	mg/l	0.250	0.0375	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0600	R01, U,LIV	mg/l	0.125	0.0600	1	"	"	"	"	"	X
7440-47-3	Chromium	2.92	R01,LIV	mg/l	0.250	0.0675	1	"	"	"	"	"	X
7439-92-1	Lead	3.42	R01,LIV	mg/l	0.375	0.162	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.335	R01, U,LIV	mg/l	0.750	0.335	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	0.00158	R01, J,LIV	mg/l	0.00400	0.00157	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-6

SB98283-13

Client Project

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 13:15

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	8.5	J	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-6

SB98283-13

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 13:15

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5030 Water MS

98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	0.5	J	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

83-32-9	Acenaphthene	< 1.21	U	µg/l	5.75	1.21	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-6

SB98283-13

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 13:15

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 1.00	U	µg/l	5.75	1.00	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	< 1.21	U	µg/l	5.75	1.21	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1.37	U	µg/l	5.75	1.37	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1.01	U	µg/l	5.75	1.01	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.980	U	µg/l	5.75	0.980	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1.71	U	µg/l	5.75	1.71	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1.28	U	µg/l	5.75	1.28	1	"	"	"	"	"	X
218-01-9	Chrysene	< 1.31	U	µg/l	5.75	1.31	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1.77	U	µg/l	5.75	1.77	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 1.35	U	µg/l	5.75	1.35	1	"	"	"	"	"	X
86-73-7	Fluorene	< 1.44	U	µg/l	5.75	1.44	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 2.00	U	µg/l	5.75	2.00	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.08	U	µg/l	5.75	1.08	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.33	U	µg/l	5.75	1.33	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.04	U	µg/l	5.75	1.04	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1.05	U	µg/l	5.75	1.05	1	"	"	"	"	"	X
129-00-0	Pyrene	< 3.10	U	µg/l	5.75	3.10	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	70			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	83			30-130 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Field Preserved		N/A				1	EPA 200/6000 methods			YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0022	U	mg/l	0.0100	0.0022	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	0.0219		mg/l	0.0080	0.0038	1	"	"	"	"	"	X
7440-39-3	Barium	1.90		mg/l	0.0100	0.0015	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0024	U	mg/l	0.0050	0.0024	1	"	"	"	"	"	X
7440-47-3	Chromium	0.0768		mg/l	0.0100	0.0027	1	"	"	"	"	"	X
7439-92-1	Lead	0.0454		mg/l	0.0150	0.0065	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0134	U	mg/l	0.0300	0.0134	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00008	U	mg/l	0.00020	0.00008	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-11
SB98283-14

Client Project #
NEW7442.P2

Matrix
Ground Water

Collection Date/Time
15-Oct-14 09:00

Received
18-Oct-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	7.8	J	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-11

SB98283-14

Client Project

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

15-Oct-14 09:00

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	0.7	J	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	0.4	J	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	101			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3510C

83-32-9	Acenaphthene	< 13.2	U, D	µg/l	62.5	13.2	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-11
SB98283-14

Client Project #
NEW7442.P2

Matrix
Ground Water

Collection Date/Time
15-Oct-14 09:00

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 10.9	U, D	µg/l	62.5	10.9	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	< 13.2	U, D	µg/l	62.5	13.2	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	42.9	J, D	µg/l	62.5	14.9	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	51.4	J, D	µg/l	62.5	11.0	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	70.9	D	µg/l	62.5	10.7	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	33.6	J, D	µg/l	62.5	18.6	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	26.2	J, D	µg/l	62.5	14.0	10	"	"	"	"	"	X
218-01-9	Chrysene	50.2	J, D	µg/l	62.5	14.2	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 19.2	U, D	µg/l	62.5	19.2	10	"	"	"	"	"	X
206-44-0	Fluoranthene	113	D	µg/l	62.5	14.6	10	"	"	"	"	"	X
86-73-7	Fluorene	< 15.6	U, D	µg/l	62.5	15.6	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	38.5	J, D	µg/l	62.5	21.8	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 11.7	U, D	µg/l	62.5	11.7	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 14.4	U, D	µg/l	62.5	14.4	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 11.3	U, D	µg/l	62.5	11.3	10	"	"	"	"	"	X
85-01-8	Phenanthrene	44.1	J, D	µg/l	62.5	11.4	10	"	"	"	"	"	X
129-00-0	Pyrene	91.6	D	µg/l	62.5	33.7	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	36				30-130 %		"	"	"	"	"	
1718-51-0	Terphenyl-d14	18	S06			30-130 %		"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	59				30-130 %		"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Lab Preserved		N/A				1	EPA 200/6000 methods	21-Oct-14	21-Oct-14	YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0550	R01, U,LIV	mg/l	0.250	0.0550	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	1.11	R01,LIV	mg/l	0.200	0.0950	1	"	"	"	"	"	X
7440-39-3	Barium	18.5	R01,LIV	mg/l	0.250	0.0375	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0600	R01, U,LIV	mg/l	0.125	0.0600	1	"	"	"	"	"	X
7440-47-3	Chromium	4.21	R01,LIV	mg/l	0.250	0.0675	1	"	"	"	"	"	X
7439-92-1	Lead	2.34	R01,LIV	mg/l	0.375	0.162	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.335	R01, U,LIV	mg/l	0.750	0.335	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	0.00179	R01, J,LIV	mg/l	0.00400	0.00157	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-21

SB98283-15

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

15-Oct-14 15:30

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	46.1		µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	0.5	J	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	0.9	J	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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

Sample Identification

SB-21

SB98283-15

Client Project

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

15-Oct-14 15:30

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	0.5	J	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	101			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	103			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3510C

83-32-9	Acenaphthene	62.9	D	µg/l	62.5	13.2	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-21
SB98283-15

Client Project #
NEW7442.P2

Matrix
Ground Water

Collection Date/Time
15-Oct-14 15:30

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

R05

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 10.9	U, D	µg/l	62.5	10.9	10	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	66.9	D	µg/l	62.5	13.2	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 14.9	U, D	µg/l	62.5	14.9	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 11.0	U, D	µg/l	62.5	11.0	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 10.7	U, D	µg/l	62.5	10.7	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 18.6	U, D	µg/l	62.5	18.6	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 14.0	U, D	µg/l	62.5	14.0	10	"	"	"	"	"	X
218-01-9	Chrysene	< 14.2	U, D	µg/l	62.5	14.2	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 19.2	U, D	µg/l	62.5	19.2	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 14.6	U, D	µg/l	62.5	14.6	10	"	"	"	"	"	X
86-73-7	Fluorene	162	D	µg/l	62.5	15.6	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 21.8	U, D	µg/l	62.5	21.8	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 11.7	U, D	µg/l	62.5	11.7	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 14.4	U, D	µg/l	62.5	14.4	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 11.3	U, D	µg/l	62.5	11.3	10	"	"	"	"	"	X
85-01-8	Phenanthrene	110	D	µg/l	62.5	11.4	10	"	"	"	"	"	X
129-00-0	Pyrene	93.4	D	µg/l	62.5	33.7	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	18	S04, Z-2		30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	12	S04, Z-2		30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	156	S06		30-130 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Lab Preserved		N/A				1	EPA 200/6000 methods	21-Oct-14	21-Oct-14	YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0550	R01, U,LIV	mg/l	0.250	0.0550	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	2.37	R01,LIV	mg/l	0.200	0.0950	1	"	"	"	"	"	X
7440-39-3	Barium	43.6	R01,LIV	mg/l	0.250	0.0375	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0600	R01, U,LIV	mg/l	0.125	0.0600	1	"	"	"	"	"	X
7440-47-3	Chromium	6.95	R01,LIV	mg/l	0.250	0.0675	1	"	"	"	"	"	X
7439-92-1	Lead	4.88	R01,LIV	mg/l	0.375	0.162	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.335	R01, U,LIV	mg/l	0.750	0.335	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	0.0102	R01,LIV	mg/l	0.00400	0.00157	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-8

SB98283-16

Client Project

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 15:15

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
67-64-1	Acetone	4.4	J	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

SB-8

SB98283-16

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 15:15

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5030 Water MS

98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	22-Oct-14	23-Oct-14	GMA	1424908	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	101			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	100			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

83-32-9	Acenaphthene	< 1.16	U	µg/l	5.49	1.16	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
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Sample Identification

SB-8

SB98283-16

Client Project #

NEW7442.P2

Matrix

Ground Water

Collection Date/Time

14-Oct-14 15:15

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3510C

208-96-8	Acenaphthylene	< 0.958	U	µg/l	5.49	0.958	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424662	X
120-12-7	Anthracene	< 1.16	U	µg/l	5.49	1.16	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1.31	U	µg/l	5.49	1.31	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 0.963	U	µg/l	5.49	0.963	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.937	U	µg/l	5.49	0.937	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1.64	U	µg/l	5.49	1.64	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1.23	U	µg/l	5.49	1.23	1	"	"	"	"	"	X
218-01-9	Chrysene	< 1.25	U	µg/l	5.49	1.25	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1.69	U	µg/l	5.49	1.69	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 1.29	U	µg/l	5.49	1.29	1	"	"	"	"	"	X
86-73-7	Fluorene	< 1.37	U	µg/l	5.49	1.37	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1.92	U	µg/l	5.49	1.92	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1.03	U	µg/l	5.49	1.03	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1.27	U	µg/l	5.49	1.27	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.996	U	µg/l	5.49	0.996	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1.01	U	µg/l	5.49	1.01	1	"	"	"	"	"	X
129-00-0	Pyrene	< 2.96	U	µg/l	5.49	2.96	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	59			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	68			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	77			30-130 %			"	"	"	"	"	

Total Metals by EPA 200/6000 Series Methods

Preservation	Field Preserved		N/A				1	EPA 200/6000 methods			YR	1424850	
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Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.0022	U	mg/l	0.0100	0.0022	1	SW846 6010C	23-Oct-14	24-Oct-14	BJW	1425003	X
7440-38-2	Arsenic	0.0545		mg/l	0.0080	0.0038	1	"	"	"	"	"	X
7440-39-3	Barium	2.98		mg/l	0.0100	0.0015	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0024	U	mg/l	0.0050	0.0024	1	"	"	"	"	"	X
7440-47-3	Chromium	0.240		mg/l	0.0100	0.0027	1	"	"	"	"	"	X
7439-92-1	Lead	0.121		mg/l	0.0150	0.0065	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0134	U	mg/l	0.0300	0.0134	1	"	"	"	"	"	X

Total Metals by EPA 200 Series Methods

7439-97-6	Mercury	< 0.00008	U	mg/l	0.00020	0.00008	1	EPA 245.1/7470A	23-Oct-14	24-Oct-14	LR	1425004	X
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Sample Identification

SB-23 (14-15)

SB98283-17

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 08:30

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 5.82 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.0	UJL	µg/kg dry	5.0	4.0	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 26.2	UJL	µg/kg dry	49.8	26.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.3	UJL	µg/kg dry	5.0	3.3	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.8	UJL	µg/kg dry	5.0	1.8	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.4	UJL	µg/kg dry	5.0	3.4	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.9	UJL	µg/kg dry	5.0	4.9	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.9	UJL	µg/kg dry	5.0	3.9	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.8	UJL	µg/kg dry	5.0	4.8	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.8	UJL	µg/kg dry	10.0	9.8	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.8	UJL	µg/kg dry	49.8	16.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.1	UJL	µg/kg dry	5.0	4.1	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.2	UJL	µg/kg dry	5.0	3.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.5	UJL	µg/kg dry	5.0	3.5	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.5	UJL	µg/kg dry	10.0	2.5	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.4	UJL	µg/kg dry	5.0	2.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.7	UJL	µg/kg dry	5.0	1.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.3	UJL	µg/kg dry	10.0	4.3	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.6	UJL	µg/kg dry	5.0	2.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.8	UJL	µg/kg dry	10.0	9.8	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.2	UJL	µg/kg dry	5.0	2.2	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.0	2.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.5	UJL	µg/kg dry	10.0	6.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.8	UJL	µg/kg dry	5.0	1.8	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.1	UJL	µg/kg dry	5.0	1.1	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.8	UJL	µg/kg dry	5.0	2.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.3	UJL	µg/kg dry	5.0	2.3	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.5	UJL	µg/kg dry	5.0	3.5	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.8	UJL	µg/kg dry	5.0	2.8	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.6	UJL	µg/kg dry	10.0	3.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.9	UJL	µg/kg dry	5.0	1.9	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.5	UJL	µg/kg dry	5.0	2.5	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.3	UJL	µg/kg dry	5.0	3.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.7	UJL	µg/kg dry	5.0	1.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.4	UJL	µg/kg dry	5.0	3.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.2	UJL	µg/kg dry	5.0	2.2	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.7	UJL	µg/kg dry	5.0	1.7	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.1	UJL	µg/kg dry	5.0	3.1	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.0	UJL	µg/kg dry	5.0	3.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.3	UJL	µg/kg dry	5.0	1.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.5	UJL	µg/kg dry	5.0	2.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.7	UJL	µg/kg dry	5.0	1.7	1	"	"	"	"	"	X

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Sample Identification

SB-23 (14-15)

SB98283-17

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 08:30

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.82 g

87-68-3	Hexachlorobutadiene	< 1.8	UJL	µg/kg dry	5.0	1.8	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 11.5	UJL	µg/kg dry	49.8	11.5	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.4	UJL	µg/kg dry	5.0	4.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.0	UJL	µg/kg dry	5.0	3.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.6	UJL	µg/kg dry	5.0	2.6	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.5	UJL	µg/kg dry	49.8	15.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	6.7	JL, O01	µg/kg dry	10.0	3.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.4	UJL	µg/kg dry	5.0	3.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.0	UJL	µg/kg dry	5.0	2.0	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.0	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.0	UJL	µg/kg dry	5.0	3.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.3	UJL	µg/kg dry	5.0	3.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.4	UJL	µg/kg dry	5.0	3.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.1	UJL	µg/kg dry	5.0	2.1	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.5	UJL	µg/kg dry	5.0	3.5	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.9	UJL	µg/kg dry	5.0	2.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.2	UJL	µg/kg dry	5.0	1.2	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 2.8	UJL	µg/kg dry	5.0	2.8	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.0	UJL	µg/kg dry	5.0	2.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.6	UJL	µg/kg dry	5.0	1.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.4	UJL	µg/kg dry	5.0	3.4	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.0	UJL	µg/kg dry	5.0	3.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.1	UJL	µg/kg dry	5.0	3.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.0	UJL	µg/kg dry	5.0	3.0	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.3	UJL	µg/kg dry	5.0	3.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.9	UJL	µg/kg dry	10.0	2.9	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.1	UJL	µg/kg dry	5.0	3.1	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.3	UJL	µg/kg dry	10.0	7.3	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 4.5	UJL	µg/kg dry	5.0	4.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.9	UJL	µg/kg dry	5.0	2.9	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.5	UJL	µg/kg dry	5.0	1.5	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.3	UJL	µg/kg dry	5.0	1.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 29.7	UJL	µg/kg dry	49.8	29.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 67.1	UJL	µg/kg dry	99.5	67.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 12.3	UJL	µg/kg dry	24.9	12.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 568	UJL	µg/kg dry	1990	568	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	100			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	98			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	92			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-23 (14-15)

SB98283-17

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 08:30

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 38.0	U	µg/kg dry	71.4	38.0	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 39.4	U	µg/kg dry	71.4	39.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 36.1	U	µg/kg dry	71.4	36.1	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 57.8	U	µg/kg dry	71.4	57.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 31.2	U	µg/kg dry	71.4	31.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 28.9	U	µg/kg dry	71.4	28.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 38.9	U	µg/kg dry	71.4	38.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 44.6	U	µg/kg dry	71.4	44.6	1	"	"	"	"	"	X
218-01-9	Chrysene	< 52.3	U	µg/kg dry	71.4	52.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 37.5	U	µg/kg dry	71.4	37.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 35.4	U	µg/kg dry	71.4	35.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 38.4	U	µg/kg dry	71.4	38.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 38.2	U	µg/kg dry	71.4	38.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 37.9	U	µg/kg dry	71.4	37.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 38.0	U	µg/kg dry	71.4	38.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 39.4	U	µg/kg dry	71.4	39.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 37.5	U	µg/kg dry	71.4	37.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 53.4	U	µg/kg dry	71.4	53.4	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	74			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	82			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	102			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.148	U	mg/kg dry	1.55	0.148	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	16.6		mg/kg dry	1.55	0.549	1	"	"	"	"	"	X
7440-39-3	Barium	73.9		mg/kg dry	1.03	0.188	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.319	J	mg/kg dry	0.517	0.0693	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	21.2		mg/kg dry	1.03	0.187	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0167	J	mg/kg dry	0.0307	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	13.2		mg/kg dry	1.55	0.720	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.879	J	mg/kg dry	1.55	0.731	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	93.2		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-26 (6-8)
SB98283-18

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 09:35

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 5.25 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.6	UJL	µg/kg dry	5.7	4.6	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 30.2	UJL	µg/kg dry	57.2	30.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.8	UJL	µg/kg dry	5.7	3.8	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	5.7	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.9	UJL	µg/kg dry	5.7	3.9	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.7	UJL	µg/kg dry	5.7	5.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.5	UJL	µg/kg dry	5.7	4.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.5	UJL	µg/kg dry	5.7	5.5	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.3	UJL	µg/kg dry	11.4	11.3	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.3	UJL	µg/kg dry	57.2	19.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.7	UJL	µg/kg dry	5.7	4.7	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.7	UJL	µg/kg dry	5.7	3.7	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.1	UJL	µg/kg dry	5.7	4.1	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.9	UJL	µg/kg dry	11.4	2.9	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.8	UJL	µg/kg dry	5.7	2.8	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.0	UJL	µg/kg dry	5.7	2.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.9	UJL	µg/kg dry	11.4	4.9	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.0	UJL	µg/kg dry	5.7	3.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.2	UJL	µg/kg dry	11.4	11.2	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.7	2.6	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.0	UJL	µg/kg dry	5.7	3.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.4	UJL	µg/kg dry	11.4	7.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.1	UJL	µg/kg dry	5.7	2.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.3	UJL	µg/kg dry	5.7	1.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.2	UJL	µg/kg dry	5.7	3.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.7	UJL	µg/kg dry	5.7	2.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.1	UJL	µg/kg dry	5.7	4.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.2	UJL	µg/kg dry	5.7	3.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.2	UJL	µg/kg dry	11.4	4.2	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.2	UJL	µg/kg dry	5.7	2.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.9	UJL	µg/kg dry	5.7	2.9	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.8	UJL	µg/kg dry	5.7	3.8	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.9	UJL	µg/kg dry	5.7	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.9	UJL	µg/kg dry	5.7	3.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.6	UJL	µg/kg dry	5.7	2.6	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.0	UJL	µg/kg dry	5.7	2.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.6	UJL	µg/kg dry	5.7	3.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.5	UJL	µg/kg dry	5.7	3.5	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.5	UJL	µg/kg dry	5.7	1.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.9	UJL	µg/kg dry	5.7	2.9	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.9	UJL	µg/kg dry	5.7	1.9	1	"	"	"	"	"	X

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Sample Identification

SB-26 (6-8)
SB98283-18

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 09:35

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.25 g

87-68-3	Hexachlorobutadiene	< 2.1	UJL	µg/kg dry	5.7	2.1	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 13.2	UJL	µg/kg dry	57.2	13.2	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.0	UJL	µg/kg dry	5.7	5.0	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.4	UJL	µg/kg dry	5.7	3.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.0	UJL	µg/kg dry	5.7	3.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 17.8	UJL	µg/kg dry	57.2	17.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	4.0	JL, O01	µg/kg dry	11.4	3.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.9	UJL	µg/kg dry	5.7	3.9	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.3	UJL	µg/kg dry	5.7	2.3	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.7	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.4	UJL	µg/kg dry	5.7	3.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.8	UJL	µg/kg dry	5.7	3.8	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.9	UJL	µg/kg dry	5.7	3.9	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.4	UJL	µg/kg dry	5.7	2.4	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.1	UJL	µg/kg dry	5.7	4.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.3	UJL	µg/kg dry	5.7	3.3	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.3	UJL	µg/kg dry	5.7	1.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.2	UJL	µg/kg dry	5.7	3.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.3	UJL	µg/kg dry	5.7	2.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.8	UJL	µg/kg dry	5.7	1.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.9	UJL	µg/kg dry	5.7	3.9	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.4	UJL	µg/kg dry	5.7	3.4	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.5	UJL	µg/kg dry	5.7	3.5	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.4	UJL	µg/kg dry	5.7	3.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.8	UJL	µg/kg dry	5.7	3.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.3	UJL	µg/kg dry	11.4	3.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.6	UJL	µg/kg dry	5.7	3.6	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.4	UJL	µg/kg dry	11.4	8.4	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.2	UJL	µg/kg dry	5.7	5.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.3	UJL	µg/kg dry	5.7	3.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.7	UJL	µg/kg dry	5.7	1.7	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.6	UJL	µg/kg dry	5.7	1.6	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 34.1	UJL	µg/kg dry	57.2	34.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 77.1	UJL	µg/kg dry	114	77.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 14.1	UJL	µg/kg dry	28.6	14.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 653	UJL	µg/kg dry	2290	653	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	93			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-26 (6-8)
SB98283-18

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 09:35

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 38.9	U	µg/kg dry	73.0	38.9	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 40.3	U	µg/kg dry	73.0	40.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 36.9	U	µg/kg dry	73.0	36.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 59.0	U	µg/kg dry	73.0	59.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 31.9	U	µg/kg dry	73.0	31.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 29.5	U	µg/kg dry	73.0	29.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 39.7	U	µg/kg dry	73.0	39.7	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 45.5	U	µg/kg dry	73.0	45.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 53.5	U	µg/kg dry	73.0	53.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 38.3	U	µg/kg dry	73.0	38.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 36.2	U	µg/kg dry	73.0	36.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 39.2	U	µg/kg dry	73.0	39.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 39.1	U	µg/kg dry	73.0	39.1	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 38.8	U	µg/kg dry	73.0	38.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 38.8	U	µg/kg dry	73.0	38.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 40.3	U	µg/kg dry	73.0	40.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 38.4	U	µg/kg dry	73.0	38.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 54.6	U	µg/kg dry	73.0	54.6	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	63			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	68			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	100			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.148	U	mg/kg dry	1.56	0.148	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.3		mg/kg dry	1.56	0.551	1	"	"	"	"	"	X
7440-39-3	Barium	70.8		mg/kg dry	1.04	0.189	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.307	J	mg/kg dry	0.519	0.0695	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	19.4		mg/kg dry	1.04	0.188	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0142	J	mg/kg dry	0.0310	0.0030	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	12.7		mg/kg dry	1.56	0.722	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.898	J	mg/kg dry	1.56	0.734	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	91.1		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-28 (8-9)
SB98283-19

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 10:45

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 4.82 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.3	UJL	µg/kg dry	6.6	5.3	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 34.6	UJL	µg/kg dry	65.7	34.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.4	UJL	µg/kg dry	6.6	4.4	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.4	UJL	µg/kg dry	6.6	2.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.4	UJL	µg/kg dry	6.6	4.4	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.5	UJL	µg/kg dry	6.6	6.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.1	UJL	µg/kg dry	6.6	5.1	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.3	UJL	µg/kg dry	6.6	6.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.9	UJL	µg/kg dry	13.1	12.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 22.1	UJL	µg/kg dry	65.7	22.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.4	UJL	µg/kg dry	6.6	5.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.3	UJL	µg/kg dry	6.6	4.3	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.7	UJL	µg/kg dry	6.6	4.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 3.3	UJL	µg/kg dry	13.1	3.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.2	UJL	µg/kg dry	6.6	3.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.3	UJL	µg/kg dry	6.6	2.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.7	UJL	µg/kg dry	13.1	5.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.4	UJL	µg/kg dry	6.6	3.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.9	UJL	µg/kg dry	13.1	12.9	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.9	UJL	µg/kg dry	6.6	2.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.5	UJL	µg/kg dry	6.6	3.5	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.5	UJL	µg/kg dry	13.1	8.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.4	UJL	µg/kg dry	6.6	2.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.5	UJL	µg/kg dry	6.6	1.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.7	UJL	µg/kg dry	6.6	3.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.1	UJL	µg/kg dry	6.6	3.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.7	UJL	µg/kg dry	6.6	4.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.6	UJL	µg/kg dry	6.6	3.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.8	UJL	µg/kg dry	13.1	4.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.6	UJL	µg/kg dry	6.6	2.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.3	UJL	µg/kg dry	6.6	3.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.4	UJL	µg/kg dry	6.6	4.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.2	UJL	µg/kg dry	6.6	2.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.5	UJL	µg/kg dry	6.6	4.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.0	UJL	µg/kg dry	6.6	3.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.3	UJL	µg/kg dry	6.6	2.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.1	UJL	µg/kg dry	6.6	4.1	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.0	UJL	µg/kg dry	6.6	4.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.7	UJL	µg/kg dry	6.6	1.7	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.3	UJL	µg/kg dry	6.6	3.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.2	UJL	µg/kg dry	6.6	2.2	1	"	"	"	"	"	X

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Sample Identification

SB-28 (8-9)
SB98283-19

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 10:45

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 4.82 g

87-68-3	Hexachlorobutadiene	< 2.4	UJL	µg/kg dry	6.6	2.4	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 15.1	UJL	µg/kg dry	65.7	15.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.7	UJL	µg/kg dry	6.6	5.7	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.9	UJL	µg/kg dry	6.6	3.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.5	UJL	µg/kg dry	6.6	3.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 20.4	UJL	µg/kg dry	65.7	20.4	1	"	"	"	"	"	X
75-09-2	Methylene chloride	8.6	JL, O01	µg/kg dry	13.1	4.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.5	UJL	µg/kg dry	6.6	4.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.6	UJL	µg/kg dry	6.6	2.6	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	UJL	µg/kg dry	6.6	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.9	UJL	µg/kg dry	6.6	3.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.3	UJL	µg/kg dry	6.6	4.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.5	UJL	µg/kg dry	6.6	4.5	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.8	UJL	µg/kg dry	6.6	2.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.7	UJL	µg/kg dry	6.6	4.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.8	UJL	µg/kg dry	6.6	3.8	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.5	UJL	µg/kg dry	6.6	1.5	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.7	UJL	µg/kg dry	6.6	3.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.6	UJL	µg/kg dry	6.6	2.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.1	UJL	µg/kg dry	6.6	2.1	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.5	UJL	µg/kg dry	6.6	4.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.9	UJL	µg/kg dry	6.6	3.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.0	UJL	µg/kg dry	6.6	4.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.9	UJL	µg/kg dry	6.6	3.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.4	UJL	µg/kg dry	6.6	4.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.8	UJL	µg/kg dry	13.1	3.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.1	UJL	µg/kg dry	6.6	4.1	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.6	UJL	µg/kg dry	13.1	9.6	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.9	UJL	µg/kg dry	6.6	5.9	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.8	UJL	µg/kg dry	6.6	3.8	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.9	UJL	µg/kg dry	6.6	1.9	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.8	UJL	µg/kg dry	6.6	1.8	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 39.1	UJL	µg/kg dry	65.7	39.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 88.5	UJL	µg/kg dry	131	88.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 16.2	UJL	µg/kg dry	32.8	16.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 749	UJL	µg/kg dry	2630	749	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	99			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	92			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-28 (8-9)
SB98283-19

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 10:45

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 40.1	U	µg/kg dry	75.2	40.1	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 41.5	U	µg/kg dry	75.2	41.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 38.0	U	µg/kg dry	75.2	38.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 60.8	U	µg/kg dry	75.2	60.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 32.9	U	µg/kg dry	75.2	32.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 30.4	U	µg/kg dry	75.2	30.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 40.9	U	µg/kg dry	75.2	40.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 46.9	U	µg/kg dry	75.2	46.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 55.1	U	µg/kg dry	75.2	55.1	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 39.5	U	µg/kg dry	75.2	39.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 37.3	U	µg/kg dry	75.2	37.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 40.4	U	µg/kg dry	75.2	40.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 40.2	U	µg/kg dry	75.2	40.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 39.9	U	µg/kg dry	75.2	39.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 40.0	U	µg/kg dry	75.2	40.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 41.5	U	µg/kg dry	75.2	41.5	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 39.5	U	µg/kg dry	75.2	39.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 56.2	U	µg/kg dry	75.2	56.2	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	44			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	50			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	74			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.152	U	mg/kg dry	1.60	0.152	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	7.72		mg/kg dry	1.60	0.565	1	"	"	"	"	"	X
7440-39-3	Barium	50.4		mg/kg dry	1.06	0.194	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.263	J	mg/kg dry	0.532	0.0714	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	18.0		mg/kg dry	1.06	0.193	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	< 0.0032	U	mg/kg dry	0.0327	0.0032	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	10.9		mg/kg dry	1.60	0.741	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.804	J	mg/kg dry	1.60	0.753	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	88.1		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-31 (12-13)

SB98283-20

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 15:10

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
Initial weight: 5.55 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0	UJL	µg/kg dry	6.2	5.0	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 32.6	UJL	µg/kg dry	61.9	32.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.1	UJL	µg/kg dry	6.2	4.1	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.2	UJL	µg/kg dry	6.2	2.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.1	UJL	µg/kg dry	6.2	6.1	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.8	UJL	µg/kg dry	6.2	4.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.9	UJL	µg/kg dry	6.2	5.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.2	UJL	µg/kg dry	12.4	12.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.9	UJL	µg/kg dry	61.9	20.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.1	UJL	µg/kg dry	6.2	5.1	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.0	UJL	µg/kg dry	6.2	4.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 3.1	UJL	µg/kg dry	12.4	3.1	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.0	UJL	µg/kg dry	6.2	3.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.2	UJL	µg/kg dry	6.2	2.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.3	UJL	µg/kg dry	12.4	5.3	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.2	UJL	µg/kg dry	6.2	3.2	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.1	UJL	µg/kg dry	12.4	12.1	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.8	UJL	µg/kg dry	6.2	2.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.3	UJL	µg/kg dry	6.2	3.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.1	UJL	µg/kg dry	12.4	8.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.2	UJL	µg/kg dry	6.2	2.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.4	UJL	µg/kg dry	6.2	1.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.4	UJL	µg/kg dry	6.2	3.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.9	UJL	µg/kg dry	6.2	2.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.4	UJL	µg/kg dry	6.2	3.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.5	UJL	µg/kg dry	12.4	4.5	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.4	UJL	µg/kg dry	6.2	2.4	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.1	UJL	µg/kg dry	6.2	3.1	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.1	UJL	µg/kg dry	6.2	4.1	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.1	UJL	µg/kg dry	6.2	2.1	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.3	UJL	µg/kg dry	6.2	4.3	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.8	UJL	µg/kg dry	6.2	2.8	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.2	UJL	µg/kg dry	6.2	2.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.9	UJL	µg/kg dry	6.2	3.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.6	UJL	µg/kg dry	6.2	1.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.1	UJL	µg/kg dry	6.2	3.1	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.1	UJL	µg/kg dry	6.2	2.1	1	"	"	"	"	"	X

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Sample Identification

SB-31 (12-13)

SB98283-20

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 15:10

Received

18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.55 g

87-68-3	Hexachlorobutadiene	< 2.2	UJL	µg/kg dry	6.2	2.2	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 14.2	UJL	µg/kg dry	61.9	14.2	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.4	UJL	µg/kg dry	6.2	5.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.3	UJL	µg/kg dry	6.2	3.3	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 19.2	UJL	µg/kg dry	61.9	19.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	9.8	JL, O01	µg/kg dry	12.4	3.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.5	UJL	µg/kg dry	6.2	2.5	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	UJL	µg/kg dry	6.2	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.1	UJL	µg/kg dry	6.2	4.1	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.6	UJL	µg/kg dry	6.2	2.6	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.6	UJL	µg/kg dry	6.2	3.6	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.4	UJL	µg/kg dry	6.2	1.4	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.5	UJL	µg/kg dry	6.2	3.5	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.5	UJL	µg/kg dry	6.2	2.5	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.0	UJL	µg/kg dry	6.2	2.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.8	UJL	µg/kg dry	6.2	3.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.1	UJL	µg/kg dry	6.2	4.1	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.6	UJL	µg/kg dry	12.4	3.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.9	UJL	µg/kg dry	6.2	3.9	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.1	UJL	µg/kg dry	12.4	9.1	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.6	UJL	µg/kg dry	6.2	5.6	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.6	UJL	µg/kg dry	6.2	3.6	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.8	UJL	µg/kg dry	6.2	1.8	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.7	UJL	µg/kg dry	6.2	1.7	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 36.9	UJL	µg/kg dry	61.9	36.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 83.4	UJL	µg/kg dry	124	83.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 15.2	UJL	µg/kg dry	30.9	15.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 706	UJL	µg/kg dry	2480	706	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	97			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	94			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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

Sample Identification

SB-31 (12-13)

SB98283-20

Client Project #

NEW7442.P2

Matrix

Soil

Collection Date/Time

16-Oct-14 15:10

Received

18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 41.6	U	µg/kg dry	78.2	41.6	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 43.2	U	µg/kg dry	78.2	43.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 39.5	U	µg/kg dry	78.2	39.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 63.2	U	µg/kg dry	78.2	63.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 34.2	U	µg/kg dry	78.2	34.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 31.6	U	µg/kg dry	78.2	31.6	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 42.6	U	µg/kg dry	78.2	42.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 48.8	U	µg/kg dry	78.2	48.8	1	"	"	"	"	"	X
218-01-9	Chrysene	< 57.3	U	µg/kg dry	78.2	57.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 41.1	U	µg/kg dry	78.2	41.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 38.7	U	µg/kg dry	78.2	38.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 42.0	U	µg/kg dry	78.2	42.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 41.8	U	µg/kg dry	78.2	41.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 41.5	U	µg/kg dry	78.2	41.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 41.6	U	µg/kg dry	78.2	41.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 43.2	U	µg/kg dry	78.2	43.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 41.1	U	µg/kg dry	78.2	41.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 58.5	U	µg/kg dry	78.2	58.5	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	52			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	62			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	85			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.162	U	mg/kg dry	1.70	0.162	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.9		mg/kg dry	1.70	0.602	1	"	"	"	"	"	X
7440-39-3	Barium	127		mg/kg dry	1.13	0.206	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.390	J	mg/kg dry	0.567	0.0760	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	23.5		mg/kg dry	1.13	0.205	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0140	J	mg/kg dry	0.0331	0.0033	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	15.7		mg/kg dry	1.70	0.789	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	1.12	J	mg/kg dry	1.70	0.802	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

	% Solids	85.0		%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

SB-33 (6-8)
SB98283-21

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 15:25

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	Lab extracted		N/A			1	VOC Soil Extraction	20-Oct-14	20-Oct-14	BD	1424705	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level) Initial weight: 5.1 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.5	UJL	µg/kg dry	5.5	4.5	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
67-64-1	Acetone	< 29.1	UJL	µg/kg dry	55.3	29.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.0	UJL	µg/kg dry	5.5	2.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.5	UJL	µg/kg dry	5.5	5.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.3	UJL	µg/kg dry	5.5	4.3	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.3	UJL	µg/kg dry	5.5	5.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.9	UJL	µg/kg dry	11.1	10.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 18.6	UJL	µg/kg dry	55.3	18.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.6	UJL	µg/kg dry	5.5	4.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.6	UJL	µg/kg dry	5.5	3.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.8	UJL	µg/kg dry	11.1	2.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.7	UJL	µg/kg dry	5.5	2.7	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.8	UJL	µg/kg dry	11.1	4.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.8	UJL	µg/kg dry	11.1	10.8	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.5	UJL	µg/kg dry	5.5	2.5	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.2	UJL	µg/kg dry	11.1	7.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.0	UJL	µg/kg dry	5.5	2.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.3	UJL	µg/kg dry	5.5	1.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.1	UJL	µg/kg dry	5.5	3.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.6	UJL	µg/kg dry	5.5	2.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.1	UJL	µg/kg dry	5.5	3.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.0	UJL	µg/kg dry	11.1	4.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.2	UJL	µg/kg dry	5.5	2.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.8	UJL	µg/kg dry	5.5	2.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.8	UJL	µg/kg dry	5.5	3.8	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.5	UJL	µg/kg dry	5.5	2.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.5	UJL	µg/kg dry	5.5	3.5	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.5	UJL	µg/kg dry	5.5	1.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.8	UJL	µg/kg dry	5.5	2.8	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X

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Sample Identification

SB-33 (6-8)
SB98283-21

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 15:25

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level)

Initial weight: 5.1 g

87-68-3	Hexachlorobutadiene	< 2.0	UJL	µg/kg dry	5.5	2.0	1	SW846 8260C	21-Oct-14	22-Oct-14	JEG	1424779	X
591-78-6	2-Hexanone (MBK)	< 12.7	UJL	µg/kg dry	55.3	12.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.8	UJL	µg/kg dry	5.5	4.8	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 17.2	UJL	µg/kg dry	55.3	17.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	6.7	JL, O01	µg/kg dry	11.1	3.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.8	UJL	µg/kg dry	5.5	3.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.2	UJL	µg/kg dry	5.5	2.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.3	UJL	µg/kg dry	5.5	0.3	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.6	UJL	µg/kg dry	5.5	3.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.8	UJL	µg/kg dry	5.5	3.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.3	UJL	µg/kg dry	5.5	2.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.2	UJL	µg/kg dry	5.5	3.2	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.3	UJL	µg/kg dry	5.5	1.3	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.1	UJL	µg/kg dry	5.5	3.1	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.2	UJL	µg/kg dry	5.5	2.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.8	UJL	µg/kg dry	5.5	1.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.8	UJL	µg/kg dry	5.5	3.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.4	UJL	µg/kg dry	5.5	3.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.2	UJL	µg/kg dry	11.1	3.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.5	UJL	µg/kg dry	5.5	3.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.1	UJL	µg/kg dry	11.1	8.1	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.0	UJL	µg/kg dry	5.5	5.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.2	UJL	µg/kg dry	5.5	3.2	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.6	UJL	µg/kg dry	5.5	1.6	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.5	UJL	µg/kg dry	5.5	1.5	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 32.9	UJL	µg/kg dry	55.3	32.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 74.5	UJL	µg/kg dry	111	74.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 13.6	UJL	µg/kg dry	27.6	13.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 631	UJL	µg/kg dry	2210	631	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	96			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	95			70-130 %			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

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Sample Identification

SB-33 (6-8)
SB98283-21

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 15:25

Received
18-Oct-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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Semivolatile Organic Compounds by GCMS

PAHs by SW846 8270

Prepared by method SW846 3545A

83-32-9	Acenaphthene	< 37.7	U	µg/kg dry	70.9	37.7	1	SW846 8270D	20-Oct-14	25-Oct-14	MSL	1424663	X
208-96-8	Acenaphthylene	< 39.1	U	µg/kg dry	70.9	39.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 35.8	U	µg/kg dry	70.9	35.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 57.3	U	µg/kg dry	70.9	57.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 31.0	U	µg/kg dry	70.9	31.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 28.7	U	µg/kg dry	70.9	28.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 38.6	U	µg/kg dry	70.9	38.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 44.2	U	µg/kg dry	70.9	44.2	1	"	"	"	"	"	X
218-01-9	Chrysene	< 51.9	U	µg/kg dry	70.9	51.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 37.2	U	µg/kg dry	70.9	37.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 35.1	U	µg/kg dry	70.9	35.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 38.1	U	µg/kg dry	70.9	38.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 37.9	U	µg/kg dry	70.9	37.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 37.6	U	µg/kg dry	70.9	37.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 37.7	U	µg/kg dry	70.9	37.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 39.1	U	µg/kg dry	70.9	39.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 37.2	U	µg/kg dry	70.9	37.2	1	"	"	"	"	"	X
129-00-0	Pyrene	< 53.0	U	µg/kg dry	70.9	53.0	1	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	63			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	76			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	91			30-130 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series Methods

7440-22-4	Silver	< 0.148	U	mg/kg dry	1.55	0.148	1	SW846 6010C	23-Oct-14	25-Oct-14	SMR	1424984	X
7440-38-2	Arsenic	10.1		mg/kg dry	1.55	0.548	1	"	"	"	"	"	X
7440-39-3	Barium	118		mg/kg dry	1.03	0.188	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.332	J	mg/kg dry	0.516	0.0691	1	"	"	27-Oct-14	"	"	X
7440-47-3	Chromium	17.8		mg/kg dry	1.03	0.187	1	"	"	25-Oct-14	"	"	X
7439-97-6	Mercury	0.0159	J	mg/kg dry	0.0311	0.0031	1	SW846 7471B	"	24-Oct-14	LR	1424985	X
7439-92-1	Lead	15.5		mg/kg dry	1.55	0.718	1	SW846 6010C	"	27-Oct-14	BJW	1424984	X
7782-49-2	Selenium	0.980	J	mg/kg dry	1.55	0.729	1	"	"	25-Oct-14	"	"	X

General Chemistry Parameters

% Solids	94.1			%			1	SM2540 G Mod.	20-Oct-14	20-Oct-14	DT	1424699	
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Sample Identification

Green Sand
SB98283-22

Client Project #
NEW7442.P2

Matrix
Soil

Collection Date/Time
16-Oct-14 12:10

Received
18-Oct-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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TCLP Metals by EPA 1311 & 6000/7000 Series Methods

TCLP Extraction for Hg

Prepared by method SW846 1311

	TCLP Extraction	Completed		N/A			1	SW846 1311	20-Oct-14	21-Oct-14	TAG	1424707	X
	Final pH of leachate	5.03		N/A			1	"	"	"	"	"	

TCLP Extraction for Metals

Prepared by method SW846 1311

	TCLP Extraction	Completed		N/A			1	"	"	"	"	"	X
	Final pH of leachate	5.03		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0016	U	mg/l	0.0100	0.0016	1	SW846 1311/6010C	21-Oct-14	22-Oct-14	bjw	1424771	X
7440-38-2	Arsenic	0.0045	J	mg/l	0.0080	0.0039	1	"	"	"	"	"	X
7440-39-3	Barium	3.15		mg/l	0.100	0.0023	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0008	U	mg/l	0.0050	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	0.0059	J	mg/l	0.0100	0.0041	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00008	U	mg/l	0.00020	0.00008	1	SW846 1311/7470A	"	22-Oct-14	SMR	1424773	X
7439-92-1	Lead	< 0.0052	U	mg/l	0.0150	0.0052	1	SW846 1311/6010C	"	22-Oct-14	bjw	1424771	X
7782-49-2	Selenium	0.0222	R06, J	mg/l	0.0310	0.0121	1	"	"	"	"	"	X

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Sample Identification

Trip Blank
SB98283-23

Client Project #
NEW7442.P2

Matrix
Aqueous

Collection Date/Time
15-Oct-14 00:00

Received
18-Oct-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5030 Water MS</u>													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	1.0	0.7	1	SW846 8260C	21-Oct-14	21-Oct-14	JEG	1424780	X
67-64-1	Acetone	< 3.6	U	µg/l	10.0	3.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.1	U	µg/l	10.0	3.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 0.7	U	µg/l	2.0	0.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.2	U	µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.4	U	µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 2.0	U	µg/l	10.0	2.0	1	"	"	"	"	"	X

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Sample Identification

Trip Blank
SB98283-23

Client Project #
NEW7442.P2

Matrix
Aqueous

Collection Date/Time
15-Oct-14 00:00

Received
18-Oct-14

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

Volatile Organic Compounds by SW846 8260
Prepared by method SW846 5030 Water MS

98-82-8	Isopropylbenzene	< 0.5	U	µg/l	1.0	0.5	1	SW846 8260C	21-Oct-14	21-Oct-14	JEG	1424780	X
99-87-6	4-Isopropyltoluene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	10.0	2.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.5	U	µg/l	2.0	0.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5	0.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.6	U	µg/l	1.0	0.6	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	1.0	0.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0	U	µg/l	1.0	1.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.4	U	µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 0.8	U	µg/l	2.0	0.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 0.5	U	µg/l	1.0	0.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.4	U	µg/l	1.0	0.4	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.3	U	µg/l	1.0	0.3	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	10.0	8.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 14.6	U	µg/l	20.0	14.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	5.0	1.0	1	"	"	"	"	"	X
64-17-5	Ethanol	< 80.8	U	µg/l	400	80.8	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	102			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	100			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	101			70-130 %			"	"	"	"	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424779 - SW846 5035A Soil (low level)										
Blank (1424779-BLK1)					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.0		µg/kg wet	4.0						
Acetone	< 26.4		µg/kg wet	26.4						
Acrylonitrile	< 3.3		µg/kg wet	3.3						
Benzene	< 1.8		µg/kg wet	1.8						
Bromobenzene	< 3.4		µg/kg wet	3.4						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 3.9		µg/kg wet	3.9						
Bromoform	< 4.8		µg/kg wet	4.8						
Bromomethane	< 9.9		µg/kg wet	9.9						
2-Butanone (MEK)	< 16.9		µg/kg wet	16.9						
n-Butylbenzene	< 4.1		µg/kg wet	4.1						
sec-Butylbenzene	< 3.2		µg/kg wet	3.2						
tert-Butylbenzene	< 3.6		µg/kg wet	3.6						
Carbon disulfide	< 2.5		µg/kg wet	2.5						
Carbon tetrachloride	< 2.4		µg/kg wet	2.4						
Chlorobenzene	< 1.8		µg/kg wet	1.8						
Chloroethane	< 4.3		µg/kg wet	4.3						
Chloroform	< 2.6		µg/kg wet	2.6						
Chloromethane	< 9.8		µg/kg wet	9.8						
2-Chlorotoluene	< 2.2		µg/kg wet	2.2						
4-Chlorotoluene	< 2.6		µg/kg wet	2.6						
1,2-Dibromo-3-chloropropane	< 6.5		µg/kg wet	6.5						
Dibromochloromethane	< 1.8		µg/kg wet	1.8						
1,2-Dibromoethane (EDB)	< 1.1		µg/kg wet	1.1						
Dibromomethane	< 2.8		µg/kg wet	2.8						
1,2-Dichlorobenzene	< 2.3		µg/kg wet	2.3						
1,3-Dichlorobenzene	< 3.6		µg/kg wet	3.6						
1,4-Dichlorobenzene	< 2.8		µg/kg wet	2.8						
Dichlorodifluoromethane (Freon12)	< 3.6		µg/kg wet	3.6						
1,1-Dichloroethane	< 2.0		µg/kg wet	2.0						
1,2-Dichloroethane	< 2.5		µg/kg wet	2.5						
1,1,1-Dichloroethene	< 3.3		µg/kg wet	3.3						
cis-1,2-Dichloroethene	< 1.7		µg/kg wet	1.7						
trans-1,2-Dichloroethene	< 3.4		µg/kg wet	3.4						
1,2-Dichloropropane	< 2.3		µg/kg wet	2.3						
1,3-Dichloropropane	< 1.8		µg/kg wet	1.8						
2,2-Dichloropropane	< 3.2		µg/kg wet	3.2						
1,1,1-Dichloropropene	< 3.0		µg/kg wet	3.0						
cis-1,3-Dichloropropene	< 1.3		µg/kg wet	1.3						
trans-1,3-Dichloropropene	< 2.5		µg/kg wet	2.5						
Ethylbenzene	< 1.7		µg/kg wet	1.7						
Hexachlorobutadiene	< 1.8		µg/kg wet	1.8						
2-Hexanone (MBK)	< 11.5		µg/kg wet	11.5						
Isopropylbenzene	< 4.4		µg/kg wet	4.4						
4-Isopropyltoluene	< 3.0		µg/kg wet	3.0						
Methyl tert-butyl ether	< 2.6		µg/kg wet	2.6						
4-Methyl-2-pentanone (MIBK)	< 15.5		µg/kg wet	15.5						
Methylene chloride	< 3.0		µg/kg wet	3.0						
Naphthalene	< 3.4		µg/kg wet	3.4						
n-Propylbenzene	< 2.0		µg/kg wet	2.0						
Styrene	< 0.3		µg/kg wet	0.3						
1,1,1,2-Tetrachloroethane	< 3.0		µg/kg wet	3.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424779 - SW846 5035A Soil (low level)										
<u>Blank (1424779-BLK1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2,2-Tetrachloroethane	< 3.3		µg/kg wet	3.3						
Tetrachloroethene	< 3.4		µg/kg wet	3.4						
Toluene	< 2.1		µg/kg wet	2.1						
1,2,3-Trichlorobenzene	< 3.6		µg/kg wet	3.6						
1,2,4-Trichlorobenzene	< 2.9		µg/kg wet	2.9						
1,3,5-Trichlorobenzene	< 1.2		µg/kg wet	1.2						
1,1,1-Trichloroethane	< 2.8		µg/kg wet	2.8						
1,1,2-Trichloroethane	< 2.0		µg/kg wet	2.0						
Trichloroethene	< 1.6		µg/kg wet	1.6						
Trichlorofluoromethane (Freon 11)	< 3.4		µg/kg wet	3.4						
1,2,3-Trichloropropane	< 3.0		µg/kg wet	3.0						
1,2,4-Trimethylbenzene	< 3.1		µg/kg wet	3.1						
1,3,5-Trimethylbenzene	< 3.0		µg/kg wet	3.0						
Vinyl chloride	< 3.3		µg/kg wet	3.3						
m,p-Xylene	< 2.9		µg/kg wet	2.9						
o-Xylene	< 3.2		µg/kg wet	3.2						
Tetrahydrofuran	< 7.3		µg/kg wet	7.3						
Ethyl ether	< 4.5		µg/kg wet	4.5						
Tert-amyl methyl ether	< 2.9		µg/kg wet	2.9						
Ethyl tert-butyl ether	< 1.5		µg/kg wet	1.5						
Di-isopropyl ether	< 1.4		µg/kg wet	1.4						
Tert-Butanol / butyl alcohol	< 29.8		µg/kg wet	29.8						
1,4-Dioxane	< 67.4		µg/kg wet	67.4						
trans-1,4-Dichloro-2-butene	< 12.3		µg/kg wet	12.3						
Ethanol	< 570		µg/kg wet	570						
<i>Surrogate: 4-Bromofluorobenzene</i>	50.2		µg/kg wet		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	49.7		µg/kg wet		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57.9		µg/kg wet		50.0		116	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.5		µg/kg wet		50.0		103	70-130		
<u>LCS (1424779-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	14.9		µg/kg wet		20.0		74	70-130		
Acetone	25.9		µg/kg wet		20.0		130	70-130		
Acrylonitrile	18.2		µg/kg wet		20.0		91	70-130		
Benzene	16.4		µg/kg wet		20.0		82	70-130		
Bromobenzene	18.4		µg/kg wet		20.0		92	70-130		
Bromochloromethane	17.8		µg/kg wet		20.0		89	70-130		
Bromodichloromethane	17.4		µg/kg wet		20.0		87	70-130		
Bromoform	19.4		µg/kg wet		20.0		97	70-130		
Bromomethane	17.8		µg/kg wet		20.0		89	70-130		
2-Butanone (MEK)	18.5		µg/kg wet		20.0		92	70-130		
n-Butylbenzene	15.9		µg/kg wet		20.0		80	70-130		
sec-Butylbenzene	18.1		µg/kg wet		20.0		90	70-130		
tert-Butylbenzene	18.5		µg/kg wet		20.0		93	70-130		
Carbon disulfide	15.4		µg/kg wet		20.0		77	70-130		
Carbon tetrachloride	16.2		µg/kg wet		20.0		81	70-130		
Chlorobenzene	18.0		µg/kg wet		20.0		90	70-130		
Chloroethane	16.3		µg/kg wet		20.0		82	70-130		
Chloroform	16.6		µg/kg wet		20.0		83	70-130		
Chloromethane	15.9		µg/kg wet		20.0		80	70-130		
2-Chlorotoluene	18.5		µg/kg wet		20.0		93	70-130		
4-Chlorotoluene	18.9		µg/kg wet		20.0		94	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424779 - SW846 5035A Soil (low level)										
<u>LCS (1424779-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,2-Dibromo-3-chloropropane	17.4		µg/kg wet		20.0		87	70-130		
Dibromochloromethane	18.1		µg/kg wet		20.0		90	70-130		
1,2-Dibromoethane (EDB)	18.6		µg/kg wet		20.0		93	70-130		
Dibromomethane	17.7		µg/kg wet		20.0		89	70-130		
1,2-Dichlorobenzene	18.0		µg/kg wet		20.0		90	70-130		
1,3-Dichlorobenzene	18.9		µg/kg wet		20.0		95	70-130		
1,4-Dichlorobenzene	17.3		µg/kg wet		20.0		86	70-130		
Dichlorodifluoromethane (Freon12)	14.7		µg/kg wet		20.0		74	70-130		
1,1-Dichloroethane	16.0		µg/kg wet		20.0		80	70-130		
1,2-Dichloroethane	17.5		µg/kg wet		20.0		87	70-130		
1,1-Dichloroethene	15.7		µg/kg wet		20.0		78	70-130		
cis-1,2-Dichloroethene	16.9		µg/kg wet		20.0		85	70-130		
trans-1,2-Dichloroethene	15.7		µg/kg wet		20.0		78	70-130		
1,2-Dichloropropane	16.6		µg/kg wet		20.0		83	70-130		
1,3-Dichloropropane	17.3		µg/kg wet		20.0		86	70-130		
2,2-Dichloropropane	15.5		µg/kg wet		20.0		78	70-130		
1,1-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130		
cis-1,3-Dichloropropene	16.8		µg/kg wet		20.0		84	70-130		
trans-1,3-Dichloropropene	16.2		µg/kg wet		20.0		81	70-130		
Ethylbenzene	18.4		µg/kg wet		20.0		92	70-130		
Hexachlorobutadiene	15.6		µg/kg wet		20.0		78	70-130		
2-Hexanone (MBK)	15.6		µg/kg wet		20.0		78	70-130		
Isopropylbenzene	18.2		µg/kg wet		20.0		91	70-130		
4-Isopropyltoluene	17.2		µg/kg wet		20.0		86	70-130		
Methyl tert-butyl ether	17.4		µg/kg wet		20.0		87	70-130		
4-Methyl-2-pentanone (MIBK)	15.2		µg/kg wet		20.0		76	70-130		
Methylene chloride	16.9		µg/kg wet		20.0		84	70-130		
Naphthalene	13.3	QM9	µg/kg wet		20.0		66	70-130		
n-Propylbenzene	18.1		µg/kg wet		20.0		91	70-130		
Styrene	19.3		µg/kg wet		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	18.7		µg/kg wet		20.0		94	70-130		
1,1,2,2-Tetrachloroethane	19.3		µg/kg wet		20.0		96	70-130		
Tetrachloroethene	16.3		µg/kg wet		20.0		81	70-130		
Toluene	16.5		µg/kg wet		20.0		82	70-130		
1,2,3-Trichlorobenzene	15.2		µg/kg wet		20.0		76	70-130		
1,2,4-Trichlorobenzene	14.1		µg/kg wet		20.0		71	70-130		
1,3,5-Trichlorobenzene	17.0		µg/kg wet		20.0		85	70-130		
1,1,1-Trichloroethane	16.0		µg/kg wet		20.0		80	70-130		
1,1,2-Trichloroethane	17.4		µg/kg wet		20.0		87	70-130		
Trichloroethene	16.5		µg/kg wet		20.0		82	70-130		
Trichlorofluoromethane (Freon 11)	15.2		µg/kg wet		20.0		76	70-130		
1,2,3-Trichloropropane	19.7		µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	19.0		µg/kg wet		20.0		95	70-130		
1,3,5-Trimethylbenzene	18.5		µg/kg wet		20.0		93	70-130		
Vinyl chloride	15.4		µg/kg wet		20.0		77	70-130		
m,p-Xylene	18.2		µg/kg wet		20.0		91	70-130		
o-Xylene	18.7		µg/kg wet		20.0		94	70-130		
Tetrahydrofuran	16.4		µg/kg wet		20.0		82	70-130		
Ethyl ether	18.6		µg/kg wet		20.0		93	70-130		
Tert-amyl methyl ether	17.2		µg/kg wet		20.0		86	70-130		
Ethyl tert-butyl ether	17.1		µg/kg wet		20.0		85	70-130		
Di-isopropyl ether	16.7		µg/kg wet		20.0		83	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424779 - SW846 5035A Soil (low level)										
<u>LCS (1424779-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
Tert-Butanol / butyl alcohol	172		µg/kg wet		200		86	70-130		
1,4-Dioxane	174		µg/kg wet		200		87	70-130		
trans-1,4-Dichloro-2-butene	17.4		µg/kg wet		20.0		87	70-130		
Ethanol	364		µg/kg wet		400		91	70-130		
Surrogate: 4-Bromofluorobenzene	52.1		µg/kg wet		50.0		104	70-130		
Surrogate: Toluene-d8	49.0		µg/kg wet		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.0		µg/kg wet		50.0		102	70-130		
Surrogate: Dibromofluoromethane	50.5		µg/kg wet		50.0		101	70-130		
<u>LCS Dup (1424779-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.6		µg/kg wet		20.0		78	70-130	5	30
Acetone	23.7		µg/kg wet		20.0		119	70-130	9	30
Acrylonitrile	18.0		µg/kg wet		20.0		90	70-130	1	30
Benzene	17.1		µg/kg wet		20.0		86	70-130	4	30
Bromobenzene	19.0		µg/kg wet		20.0		95	70-130	3	30
Bromochloromethane	18.1		µg/kg wet		20.0		90	70-130	2	30
Bromodichloromethane	17.8		µg/kg wet		20.0		89	70-130	2	30
Bromoform	20.3		µg/kg wet		20.0		101	70-130	4	30
Bromomethane	18.6		µg/kg wet		20.0		93	70-130	4	30
2-Butanone (MEK)	18.0		µg/kg wet		20.0		90	70-130	3	30
n-Butylbenzene	17.9		µg/kg wet		20.0		89	70-130	12	30
sec-Butylbenzene	18.9		µg/kg wet		20.0		95	70-130	5	30
tert-Butylbenzene	19.0		µg/kg wet		20.0		95	70-130	3	30
Carbon disulfide	16.3		µg/kg wet		20.0		81	70-130	5	30
Carbon tetrachloride	16.7		µg/kg wet		20.0		84	70-130	3	30
Chlorobenzene	19.0		µg/kg wet		20.0		95	70-130	5	30
Chloroethane	16.4		µg/kg wet		20.0		82	70-130	0.5	30
Chloroform	16.8		µg/kg wet		20.0		84	70-130	1	30
Chloromethane	16.4		µg/kg wet		20.0		82	70-130	3	30
2-Chlorotoluene	19.4		µg/kg wet		20.0		97	70-130	5	30
4-Chlorotoluene	20.0		µg/kg wet		20.0		100	70-130	6	30
1,2-Dibromo-3-chloropropane	17.9		µg/kg wet		20.0		90	70-130	3	30
Dibromochloromethane	18.3		µg/kg wet		20.0		91	70-130	0.9	30
1,2-Dibromoethane (EDB)	18.7		µg/kg wet		20.0		93	70-130	0.4	30
Dibromomethane	17.6		µg/kg wet		20.0		88	70-130	0.6	30
1,2-Dichlorobenzene	19.4		µg/kg wet		20.0		97	70-130	7	30
1,3-Dichlorobenzene	19.6		µg/kg wet		20.0		98	70-130	4	30
1,4-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	5	30
Dichlorodifluoromethane (Freon12)	15.5		µg/kg wet		20.0		78	70-130	5	30
1,1-Dichloroethane	16.6		µg/kg wet		20.0		83	70-130	4	30
1,2-Dichloroethane	17.5		µg/kg wet		20.0		88	70-130	0.3	30
1,1-Dichloroethene	15.9		µg/kg wet		20.0		79	70-130	1	30
cis-1,2-Dichloroethene	17.6		µg/kg wet		20.0		88	70-130	4	30
trans-1,2-Dichloroethene	16.8		µg/kg wet		20.0		84	70-130	7	30
1,2-Dichloropropane	17.3		µg/kg wet		20.0		87	70-130	4	30
1,3-Dichloropropane	17.9		µg/kg wet		20.0		89	70-130	3	30
2,2-Dichloropropane	15.7		µg/kg wet		20.0		79	70-130	1	30
1,1-Dichloropropene	16.4		µg/kg wet		20.0		82	70-130	5	30
cis-1,3-Dichloropropene	17.0		µg/kg wet		20.0		85	70-130	0.8	30
trans-1,3-Dichloropropene	16.8		µg/kg wet		20.0		84	70-130	4	30
Ethylbenzene	19.1		µg/kg wet		20.0		96	70-130	4	30
Hexachlorobutadiene	17.0		µg/kg wet		20.0		85	70-130	9	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424779 - SW846 5035A Soil (low level)										
<u>LCS Dup (1424779-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
2-Hexanone (MBK)	16.6		µg/kg wet		20.0		83	70-130	6	30
Isopropylbenzene	19.0		µg/kg wet		20.0		95	70-130	4	30
4-Isopropyltoluene	18.7		µg/kg wet		20.0		93	70-130	8	30
Methyl tert-butyl ether	17.7		µg/kg wet		20.0		89	70-130	2	30
4-Methyl-2-pentanone (MIBK)	17.5		µg/kg wet		20.0		87	70-130	14	30
Methylene chloride	17.2		µg/kg wet		20.0		86	70-130	2	30
Naphthalene	14.2		µg/kg wet		20.0		71	70-130	7	30
n-Propylbenzene	19.2		µg/kg wet		20.0		96	70-130	6	30
Styrene	20.1		µg/kg wet		20.0		100	70-130	4	30
1,1,1,2-Tetrachloroethane	19.1		µg/kg wet		20.0		95	70-130	2	30
1,1,2,2-Tetrachloroethane	19.2		µg/kg wet		20.0		96	70-130	0.4	30
Tetrachloroethene	16.9		µg/kg wet		20.0		84	70-130	4	30
Toluene	17.2		µg/kg wet		20.0		86	70-130	4	30
1,2,3-Trichlorobenzene	16.7		µg/kg wet		20.0		83	70-130	9	30
1,2,4-Trichlorobenzene	16.2		µg/kg wet		20.0		81	70-130	14	30
1,3,5-Trichlorobenzene	19.6		µg/kg wet		20.0		98	70-130	14	30
1,1,1-Trichloroethane	16.6		µg/kg wet		20.0		83	70-130	4	30
1,1,2-Trichloroethane	17.2		µg/kg wet		20.0		86	70-130	1	30
Trichloroethene	17.2		µg/kg wet		20.0		86	70-130	4	30
Trichlorofluoromethane (Freon 11)	15.7		µg/kg wet		20.0		78	70-130	3	30
1,2,3-Trichloropropane	19.2		µg/kg wet		20.0		96	70-130	3	30
1,2,4-Trimethylbenzene	19.8		µg/kg wet		20.0		99	70-130	4	30
1,3,5-Trimethylbenzene	19.5		µg/kg wet		20.0		97	70-130	5	30
Vinyl chloride	16.2		µg/kg wet		20.0		81	70-130	5	30
m,p-Xylene	19.4		µg/kg wet		20.0		97	70-130	6	30
o-Xylene	19.5		µg/kg wet		20.0		98	70-130	4	30
Tetrahydrofuran	15.4		µg/kg wet		20.0		77	70-130	7	30
Ethyl ether	18.2		µg/kg wet		20.0		91	70-130	2	30
Tert-amyl methyl ether	17.3		µg/kg wet		20.0		86	70-130	0.6	30
Ethyl tert-butyl ether	17.6		µg/kg wet		20.0		88	70-130	3	30
Di-isopropyl ether	17.3		µg/kg wet		20.0		86	70-130	3	30
Tert-Butanol / butyl alcohol	172		µg/kg wet		200		86	70-130	0.07	30
1,4-Dioxane	205		µg/kg wet		200		103	70-130	17	30
trans-1,4-Dichloro-2-butene	17.0		µg/kg wet		20.0		85	70-130	2	30
Ethanol	360		µg/kg wet		400		90	70-130	1	30
Surrogate: 4-Bromofluorobenzene	52.6		µg/kg wet		50.0		105	70-130		
Surrogate: Toluene-d8	48.8		µg/kg wet		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/kg wet		50.0		99	70-130		
Surrogate: Dibromofluoromethane	50.0		µg/kg wet		50.0		100	70-130		

Batch 1424780 - SW846 5030 Water MS

Blank (1424780-BLK1)

Prepared & Analyzed: 21-Oct-14

1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	0.7
Acetone	< 3.6	U	µg/l	3.6
Acrylonitrile	< 0.5	U	µg/l	0.5
Benzene	< 0.3	U	µg/l	0.3
Bromobenzene	< 0.3	U	µg/l	0.3
Bromochloromethane	< 0.3	U	µg/l	0.3
Bromodichloromethane	< 0.4	U	µg/l	0.4
Bromoform	< 0.6	U	µg/l	0.6
Bromomethane	< 0.5	U	µg/l	0.5
2-Butanone (MEK)	< 3.1	U	µg/l	3.1

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424780 - SW846 5030 Water MS										
<u>Blank (1424780-BLK1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
n-Butylbenzene	< 0.4	U	µg/l	0.4						
sec-Butylbenzene	< 0.4	U	µg/l	0.4						
tert-Butylbenzene	< 0.4	U	µg/l	0.4						
Carbon disulfide	< 0.7	U	µg/l	0.7						
Carbon tetrachloride	< 0.4	U	µg/l	0.4						
Chlorobenzene	< 0.3	U	µg/l	0.3						
Chloroethane	< 0.7	U	µg/l	0.7						
Chloroform	< 0.5	U	µg/l	0.5						
Chloromethane	< 0.5	U	µg/l	0.5						
2-Chlorotoluene	< 0.4	U	µg/l	0.4						
4-Chlorotoluene	< 0.3	U	µg/l	0.3						
1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	0.5						
Dibromochloromethane	< 0.4	U	µg/l	0.4						
1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.3						
Dibromomethane	< 0.4	U	µg/l	0.4						
1,2-Dichlorobenzene	< 0.4	U	µg/l	0.4						
1,3-Dichlorobenzene	< 0.4	U	µg/l	0.4						
1,4-Dichlorobenzene	< 0.5	U	µg/l	0.5						
Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	0.6						
1,1-Dichloroethane	< 0.3	U	µg/l	0.3						
1,2-Dichloroethane	< 0.3	U	µg/l	0.3						
1,1-Dichloroethene	< 0.5	U	µg/l	0.5						
cis-1,2-Dichloroethene	< 0.4	U	µg/l	0.4						
trans-1,2-Dichloroethene	< 0.5	U	µg/l	0.5						
1,2-Dichloropropane	< 0.3	U	µg/l	0.3						
1,3-Dichloropropane	< 0.2	U	µg/l	0.2						
2,2-Dichloropropane	< 0.3	U	µg/l	0.3						
1,1-Dichloropropene	< 0.4	U	µg/l	0.4						
cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.4						
trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5						
Ethylbenzene	< 0.4	U	µg/l	0.4						
Hexachlorobutadiene	< 0.4	U	µg/l	0.4						
2-Hexanone (MBK)	< 2.0	U	µg/l	2.0						
Isopropylbenzene	< 0.5	U	µg/l	0.5						
4-Isopropyltoluene	< 0.5	U	µg/l	0.5						
Methyl tert-butyl ether	< 0.4	U	µg/l	0.4						
4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	2.5						
Methylene chloride	< 0.5	U	µg/l	0.5						
Naphthalene	< 0.5	U	µg/l	0.5						
n-Propylbenzene	< 0.4	U	µg/l	0.4						
Styrene	< 0.4	U	µg/l	0.4						
1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	0.4						
1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5						
Tetrachloroethene	< 0.6	U	µg/l	0.6						
Toluene	< 0.3	U	µg/l	0.3						
1,2,3-Trichlorobenzene	< 0.8	U	µg/l	0.8						
1,2,4-Trichlorobenzene	< 0.4	U	µg/l	0.4						
1,3,5-Trichlorobenzene	< 0.6	U	µg/l	0.6						
1,1,1-Trichloroethane	< 0.4	U	µg/l	0.4						
1,1,2-Trichloroethane	< 0.3	U	µg/l	0.3						
Trichloroethene	< 0.4	U	µg/l	0.4						
Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	0.8						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424780 - SW846 5030 Water MS										
Blank (1424780-BLK1)					Prepared & Analyzed: 21-Oct-14					
1,2,3-Trichloropropane	< 0.3	U	µg/l	0.3						
1,2,4-Trimethylbenzene	< 0.3	U	µg/l	0.3						
1,3,5-Trimethylbenzene	< 0.4	U	µg/l	0.4						
Vinyl chloride	< 1.0	U	µg/l	1.0						
m,p-Xylene	< 0.4	U	µg/l	0.4						
o-Xylene	< 0.4	U	µg/l	0.4						
Tetrahydrofuran	< 0.8	U	µg/l	0.8						
Ethyl ether	< 0.5	U	µg/l	0.5						
Tert-amyl methyl ether	< 0.3	U	µg/l	0.3						
Ethyl tert-butyl ether	< 0.4	U	µg/l	0.4						
Di-isopropyl ether	< 0.3	U	µg/l	0.3						
Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	8.9						
1,4-Dioxane	< 14.6	U	µg/l	14.6						
trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	1.0						
Ethanol	< 80.8	U	µg/l	80.8						
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Surrogate: 4-Bromofluorobenzene	50.7		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	48.7		µg/l		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/l		50.0		101	70-130		
Surrogate: Dibromofluoromethane	50.0		µg/l		50.0		100	70-130		
LCS (1424780-BS1)					Prepared & Analyzed: 21-Oct-14					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.5		µg/l		20.0		108	70-130		
Acetone	20.9		µg/l		20.0		104	70-130		
Acrylonitrile	22.2		µg/l		20.0		111	70-130		
Benzene	21.5		µg/l		20.0		108	70-130		
Bromobenzene	21.3		µg/l		20.0		107	70-130		
Bromochloromethane	24.1		µg/l		20.0		121	70-130		
Bromodichloromethane	22.2		µg/l		20.0		111	70-130		
Bromoform	23.8		µg/l		20.0		119	70-130		
Bromomethane	19.2		µg/l		20.0		96	70-130		
2-Butanone (MEK)	23.8		µg/l		20.0		119	70-130		
n-Butylbenzene	20.3		µg/l		20.0		101	70-130		
sec-Butylbenzene	21.7		µg/l		20.0		109	70-130		
tert-Butylbenzene	21.9		µg/l		20.0		110	70-130		
Carbon disulfide	21.2		µg/l		20.0		106	70-130		
Carbon tetrachloride	23.9		µg/l		20.0		120	70-130		
Chlorobenzene	20.4		µg/l		20.0		102	70-130		
Chloroethane	22.6		µg/l		20.0		113	70-130		
Chloroform	21.9		µg/l		20.0		110	70-130		
Chloromethane	19.8		µg/l		20.0		99	70-130		
2-Chlorotoluene	20.6		µg/l		20.0		103	70-130		
4-Chlorotoluene	20.8		µg/l		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	19.4		µg/l		20.0		97	70-130		
Dibromochloromethane	23.4		µg/l		20.0		117	70-130		
1,2-Dibromoethane (EDB)	21.5		µg/l		20.0		107	70-130		
Dibromomethane	21.7		µg/l		20.0		108	70-130		
1,2-Dichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,3-Dichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,4-Dichlorobenzene	19.3		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	25.7		µg/l		20.0		128	70-130		
1,1-Dichloroethane	22.5		µg/l		20.0		113	70-130		
1,2-Dichloroethane	21.3		µg/l		20.0		107	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424780 - SW846 5030 Water MS										
<u>LCS (1424780-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1-Dichloroethene	22.7		µg/l		20.0		113	70-130		
cis-1,2-Dichloroethene	24.5		µg/l		20.0		122	70-130		
trans-1,2-Dichloroethene	22.1		µg/l		20.0		111	70-130		
1,2-Dichloropropane	21.2		µg/l		20.0		106	70-130		
1,3-Dichloropropane	20.4		µg/l		20.0		102	70-130		
2,2-Dichloropropane	22.6		µg/l		20.0		113	70-130		
1,1-Dichloropropene	22.3		µg/l		20.0		112	70-130		
cis-1,3-Dichloropropene	22.2		µg/l		20.0		111	70-130		
trans-1,3-Dichloropropene	23.8		µg/l		20.0		119	70-130		
Ethylbenzene	21.3		µg/l		20.0		106	70-130		
Hexachlorobutadiene	20.8		µg/l		20.0		104	70-130		
2-Hexanone (MBK)	21.2		µg/l		20.0		106	70-130		
Isopropylbenzene	20.8		µg/l		20.0		104	70-130		
4-Isopropyltoluene	20.7		µg/l		20.0		104	70-130		
Methyl tert-butyl ether	22.3		µg/l		20.0		111	70-130		
4-Methyl-2-pentanone (MIBK)	21.3		µg/l		20.0		106	70-130		
Methylene chloride	20.7		µg/l		20.0		103	70-130		
Naphthalene	20.8		µg/l		20.0		104	70-130		
n-Propylbenzene	21.1		µg/l		20.0		105	70-130		
Styrene	21.3		µg/l		20.0		106	70-130		
1,1,1,2-Tetrachloroethane	22.8		µg/l		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	20.9		µg/l		20.0		105	70-130		
Tetrachloroethene	21.0		µg/l		20.0		105	70-130		
Toluene	20.7		µg/l		20.0		104	70-130		
1,2,3-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,2,4-Trichlorobenzene	20.6		µg/l		20.0		103	70-130		
1,3,5-Trichlorobenzene	21.5		µg/l		20.0		107	70-130		
1,1,1-Trichloroethane	23.3		µg/l		20.0		116	70-130		
1,1,2-Trichloroethane	21.2		µg/l		20.0		106	70-130		
Trichloroethene	20.9		µg/l		20.0		104	70-130		
Trichlorofluoromethane (Freon 11)	22.1		µg/l		20.0		111	70-130		
1,2,3-Trichloropropane	20.6		µg/l		20.0		103	70-130		
1,2,4-Trimethylbenzene	22.3		µg/l		20.0		112	70-130		
1,3,5-Trimethylbenzene	21.6		µg/l		20.0		108	70-130		
Vinyl chloride	22.0		µg/l		20.0		110	70-130		
m,p-Xylene	21.5		µg/l		20.0		107	70-130		
o-Xylene	21.8		µg/l		20.0		109	70-130		
Tetrahydrofuran	21.8		µg/l		20.0		109	70-130		
Ethyl ether	22.9		µg/l		20.0		114	70-130		
Tert-amyl methyl ether	19.0		µg/l		20.0		95	70-130		
Ethyl tert-butyl ether	22.1		µg/l		20.0		110	70-130		
Di-isopropyl ether	24.8		µg/l		20.0		124	70-130		
Tert-Butanol / butyl alcohol	191		µg/l		200		95	70-130		
1,4-Dioxane	182		µg/l		200		91	70-130		
trans-1,4-Dichloro-2-butene	21.7		µg/l		20.0		109	70-130		
Ethanol	307		µg/l		400		77	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	51.0		µg/l		50.0		102	70-130		
<i>Surrogate: Toluene-d8</i>	50.1		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.4		µg/l		50.0		101	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.0		µg/l		50.0		102	70-130		
<u>LCS Dup (1424780-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424780 - SW846 5030 Water MS										
<u>LCS Dup (1424780-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.0		µg/l		20.0		105	70-130	2	20
Acetone	19.2		µg/l		20.0		96	70-130	8	20
Acrylonitrile	21.4		µg/l		20.0		107	70-130	4	20
Benzene	20.5		µg/l		20.0		102	70-130	5	20
Bromobenzene	20.8		µg/l		20.0		104	70-130	2	20
Bromochloromethane	23.6		µg/l		20.0		118	70-130	2	20
Bromodichloromethane	21.5		µg/l		20.0		108	70-130	3	20
Bromoform	23.8		µg/l		20.0		119	70-130	0.3	20
Bromomethane	19.1		µg/l		20.0		96	70-130	0.3	20
2-Butanone (MEK)	24.4		µg/l		20.0		122	70-130	3	20
n-Butylbenzene	19.5		µg/l		20.0		98	70-130	4	20
sec-Butylbenzene	21.5		µg/l		20.0		108	70-130	1	20
tert-Butylbenzene	21.8		µg/l		20.0		109	70-130	0.6	20
Carbon disulfide	19.9		µg/l		20.0		100	70-130	7	20
Carbon tetrachloride	22.8		µg/l		20.0		114	70-130	5	20
Chlorobenzene	19.9		µg/l		20.0		100	70-130	2	20
Chloroethane	20.8		µg/l		20.0		104	70-130	8	20
Chloroform	20.6		µg/l		20.0		103	70-130	6	20
Chloromethane	17.6		µg/l		20.0		88	70-130	12	20
2-Chlorotoluene	20.0		µg/l		20.0		100	70-130	3	20
4-Chlorotoluene	20.6		µg/l		20.0		103	70-130	0.8	20
1,2-Dibromo-3-chloropropane	18.8		µg/l		20.0		94	70-130	3	20
Dibromochloromethane	22.6		µg/l		20.0		113	70-130	3	20
1,2-Dibromoethane (EDB)	21.0		µg/l		20.0		105	70-130	2	20
Dibromomethane	21.0		µg/l		20.0		105	70-130	3	20
1,2-Dichlorobenzene	20.0		µg/l		20.0		100	70-130	4	20
1,3-Dichlorobenzene	20.6		µg/l		20.0		103	70-130	0.05	20
1,4-Dichlorobenzene	18.8		µg/l		20.0		94	70-130	2	20
Dichlorodifluoromethane (Freon12)	21.1		µg/l		20.0		105	70-130	20	20
1,1-Dichloroethane	21.1		µg/l		20.0		106	70-130	6	20
1,2-Dichloroethane	20.4		µg/l		20.0		102	70-130	4	20
1,1-Dichloroethene	21.1		µg/l		20.0		105	70-130	7	20
cis-1,2-Dichloroethene	23.0		µg/l		20.0		115	70-130	6	20
trans-1,2-Dichloroethene	20.7		µg/l		20.0		103	70-130	7	20
1,2-Dichloropropane	20.3		µg/l		20.0		101	70-130	5	20
1,3-Dichloropropane	19.9		µg/l		20.0		100	70-130	2	20
2,2-Dichloropropane	21.2		µg/l		20.0		106	70-130	6	20
1,1-Dichloropropene	20.9		µg/l		20.0		104	70-130	7	20
cis-1,3-Dichloropropene	21.3		µg/l		20.0		106	70-130	4	20
trans-1,3-Dichloropropene	22.8		µg/l		20.0		114	70-130	4	20
Ethylbenzene	20.8		µg/l		20.0		104	70-130	2	20
Hexachlorobutadiene	20.0		µg/l		20.0		100	70-130	4	20
2-Hexanone (MBK)	20.9		µg/l		20.0		105	70-130	2	20
Isopropylbenzene	20.6		µg/l		20.0		103	70-130	0.9	20
4-Isopropyltoluene	19.9		µg/l		20.0		100	70-130	4	20
Methyl tert-butyl ether	21.6		µg/l		20.0		108	70-130	3	20
4-Methyl-2-pentanone (MIBK)	20.5		µg/l		20.0		102	70-130	4	20
Methylene chloride	19.7		µg/l		20.0		98	70-130	5	20
Naphthalene	20.5		µg/l		20.0		103	70-130	2	20
n-Propylbenzene	20.2		µg/l		20.0		101	70-130	4	20
Styrene	21.0		µg/l		20.0		105	70-130	2	20
1,1,1,2-Tetrachloroethane	21.8		µg/l		20.0		109	70-130	4	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424780 - SW846 5030 Water MS										
<u>LCS Dup (1424780-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2,2-Tetrachloroethane	20.7		µg/l		20.0		104	70-130	1	20
Tetrachloroethene	20.3		µg/l		20.0		101	70-130	3	20
Toluene	20.1		µg/l		20.0		100	70-130	3	20
1,2,3-Trichlorobenzene	20.0		µg/l		20.0		100	70-130	3	20
1,2,4-Trichlorobenzene	20.3		µg/l		20.0		102	70-130	1	20
1,3,5-Trichlorobenzene	21.1		µg/l		20.0		106	70-130	2	20
1,1,1-Trichloroethane	22.0		µg/l		20.0		110	70-130	5	20
1,1,2-Trichloroethane	20.3		µg/l		20.0		102	70-130	4	20
Trichloroethene	20.1		µg/l		20.0		101	70-130	4	20
Trichlorofluoromethane (Freon 11)	20.6		µg/l		20.0		103	70-130	7	20
1,2,3-Trichloropropane	20.7		µg/l		20.0		104	70-130	0.3	20
1,2,4-Trimethylbenzene	21.8		µg/l		20.0		109	70-130	2	20
1,3,5-Trimethylbenzene	21.3		µg/l		20.0		106	70-130	2	20
Vinyl chloride	22.9		µg/l		20.0		114	70-130	4	20
m,p-Xylene	20.7		µg/l		20.0		104	70-130	4	20
o-Xylene	21.3		µg/l		20.0		106	70-130	2	20
Tetrahydrofuran	21.2		µg/l		20.0		106	70-130	3	20
Ethyl ether	22.2		µg/l		20.0		111	70-130	3	20
Tert-amyl methyl ether	18.4		µg/l		20.0		92	70-130	3	20
Ethyl tert-butyl ether	21.4		µg/l		20.0		107	70-130	3	20
Di-isopropyl ether	23.6		µg/l		20.0		118	70-130	5	20
Tert-Butanol / butyl alcohol	184		µg/l		200		92	70-130	3	20
1,4-Dioxane	199		µg/l		200		99	70-130	9	20
trans-1,4-Dichloro-2-butene	20.2		µg/l		20.0		101	70-130	7	20
Ethanol	322		µg/l		400		81	70-130	5	20
<i>Surrogate: 4-Bromofluorobenzene</i>	50.8		µg/l		50.0		102	70-130		
<i>Surrogate: Toluene-d8</i>	50.0		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.8		µg/l		50.0		100	70-130		
<i>Surrogate: Dibromofluoromethane</i>	50.2		µg/l		50.0		100	70-130		

Batch 1424801 - SW846 5035A Soil (high level)

Blank (1424801-BLK1)

Prepared & Analyzed: 21-Oct-14

1,1,2-Trichlorotrifluoroethane (Freon 113)	< 40.5	D	µg/kg wet	40.5
Acetone	< 264	D	µg/kg wet	264
Acrylonitrile	< 33.4	D	µg/kg wet	33.4
Benzene	< 18.0	D	µg/kg wet	18.0
Bromobenzene	< 33.7	D	µg/kg wet	33.7
Bromochloromethane	< 49.6	D	µg/kg wet	49.6
Bromodichloromethane	< 39.0	D	µg/kg wet	39.0
Bromoform	< 47.9	D	µg/kg wet	47.9
Bromomethane	< 98.6	D	µg/kg wet	98.6
2-Butanone (MEK)	< 169	D	µg/kg wet	169
n-Butylbenzene	< 41.2	D	µg/kg wet	41.2
sec-Butylbenzene	< 32.4	D	µg/kg wet	32.4
tert-Butylbenzene	< 35.6	D	µg/kg wet	35.6
Carbon disulfide	< 25.0	D	µg/kg wet	25.0
Carbon tetrachloride	< 24.4	D	µg/kg wet	24.4
Chlorobenzene	< 17.5	D	µg/kg wet	17.5
Chloroethane	< 43.2	D	µg/kg wet	43.2
Chloroform	< 26.0	D	µg/kg wet	26.0
Chloromethane	< 98.0	D	µg/kg wet	98.0
2-Chlorotoluene	< 22.4	D	µg/kg wet	22.4

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
Blank (1424801-BLK1)					Prepared & Analyzed: 21-Oct-14					
4-Chlorotoluene	< 26.4	D	µg/kg wet	26.4						
1,2-Dibromo-3-chloropropane	< 65.0	D	µg/kg wet	65.0						
Dibromochloromethane	< 18.0	D	µg/kg wet	18.0						
1,2-Dibromoethane (EDB)	< 11.4	D	µg/kg wet	11.4						
Dibromomethane	< 27.8	D	µg/kg wet	27.8						
1,2-Dichlorobenzene	< 23.4	D	µg/kg wet	23.4						
1,3-Dichlorobenzene	< 35.6	D	µg/kg wet	35.6						
1,4-Dichlorobenzene	< 27.6	D	µg/kg wet	27.6						
Dichlorodifluoromethane (Freon12)	< 36.4	D	µg/kg wet	36.4						
1,1-Dichloroethane	< 19.5	D	µg/kg wet	19.5						
1,2-Dichloroethane	< 25.4	D	µg/kg wet	25.4						
1,1-Dichloroethene	< 33.4	D	µg/kg wet	33.4						
cis-1,2-Dichloroethene	< 17.0	D	µg/kg wet	17.0						
trans-1,2-Dichloroethene	< 34.4	D	µg/kg wet	34.4						
1,2-Dichloropropane	< 22.6	D	µg/kg wet	22.6						
1,3-Dichloropropane	< 17.5	D	µg/kg wet	17.5						
2,2-Dichloropropane	< 31.5	D	µg/kg wet	31.5						
1,1-Dichloropropene	< 30.2	D	µg/kg wet	30.2						
cis-1,3-Dichloropropene	< 13.2	D	µg/kg wet	13.2						
trans-1,3-Dichloropropene	< 25.3	D	µg/kg wet	25.3						
Ethylbenzene	< 16.8	D	µg/kg wet	16.8						
Hexachlorobutadiene	< 18.2	D	µg/kg wet	18.2						
2-Hexanone (MBK)	< 115	D	µg/kg wet	115						
Isopropylbenzene	< 43.7	D	µg/kg wet	43.7						
4-Isopropyltoluene	< 29.6	D	µg/kg wet	29.6						
Methyl tert-butyl ether	< 26.4	D	µg/kg wet	26.4						
4-Methyl-2-pentanone (MIBK)	< 155	D	µg/kg wet	155						
Methylene chloride	< 30.2	D	µg/kg wet	30.2						
Naphthalene	< 34.0	D	µg/kg wet	34.0						
n-Propylbenzene	< 20.1	D	µg/kg wet	20.1						
Styrene	< 3.0	D	µg/kg wet	3.0						
1,1,1,2-Tetrachloroethane	< 30.0	D	µg/kg wet	30.0						
1,1,2,2-Tetrachloroethane	< 32.8	D	µg/kg wet	32.8						
Tetrachloroethene	< 34.0	D	µg/kg wet	34.0						
Toluene	< 21.0	D	µg/kg wet	21.0						
1,2,3-Trichlorobenzene	< 35.5	D	µg/kg wet	35.5						
1,2,4-Trichlorobenzene	< 29.2	D	µg/kg wet	29.2						
1,3,5-Trichlorobenzene	< 11.7	D	µg/kg wet	11.7						
1,1,1-Trichloroethane	< 28.2	D	µg/kg wet	28.2						
1,1,2-Trichloroethane	< 20.1	D	µg/kg wet	20.1						
Trichloroethene	< 16.0	D	µg/kg wet	16.0						
Trichlorofluoromethane (Freon 11)	< 34.2	D	µg/kg wet	34.2						
1,2,3-Trichloropropane	< 30.0	D	µg/kg wet	30.0						
1,2,4-Trimethylbenzene	< 30.6	D	µg/kg wet	30.6						
1,3,5-Trimethylbenzene	< 30.0	D	µg/kg wet	30.0						
Vinyl chloride	< 33.4	D	µg/kg wet	33.4						
m,p-Xylene	< 28.8	D	µg/kg wet	28.8						
o-Xylene	< 31.6	D	µg/kg wet	31.6						
Tetrahydrofuran	< 73.4	D	µg/kg wet	73.4						
Ethyl ether	< 45.2	D	µg/kg wet	45.2						
Tert-amyl methyl ether	< 29.2	D	µg/kg wet	29.2						
Ethyl tert-butyl ether	< 14.8	D	µg/kg wet	14.8						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
<u>Blank (1424801-BLK1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
Di-isopropyl ether	< 13.6	D	µg/kg wet	13.6						
Tert-Butanol / butyl alcohol	< 298	D	µg/kg wet	298						
1,4-Dioxane	< 674	D	µg/kg wet	674						
trans-1,4-Dichloro-2-butene	< 123	D	µg/kg wet	123						
Ethanol	< 5700	D	µg/kg wet	5700						
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Surrogate: 4-Bromofluorobenzene	31.3		µg/kg wet		30.0		104	70-130		
Surrogate: Toluene-d8	29.8		µg/kg wet		30.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	34.6		µg/kg wet		30.0		116	70-130		
Surrogate: Dibromofluoromethane	32.6		µg/kg wet		30.0		109	70-130		
<u>LCS (1424801-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	22.0	D	µg/kg wet		20.0		110	70-130		
Acetone	15.9	D	µg/kg wet		20.0		80	70-130		
Acrylonitrile	13.0	QC2, D	µg/kg wet		20.0		65	70-130		
Benzene	19.4	D	µg/kg wet		20.0		97	70-130		
Bromobenzene	23.7	D	µg/kg wet		20.0		118	70-130		
Bromochloromethane	21.7	D	µg/kg wet		20.0		108	70-130		
Bromodichloromethane	23.3	D	µg/kg wet		20.0		117	70-130		
Bromoform	24.2	D	µg/kg wet		20.0		121	70-130		
Bromomethane	17.2	D	µg/kg wet		20.0		86	70-130		
2-Butanone (MEK)	17.1	D	µg/kg wet		20.0		85	70-130		
n-Butylbenzene	21.0	D	µg/kg wet		20.0		105	70-130		
sec-Butylbenzene	22.8	D	µg/kg wet		20.0		114	70-130		
tert-Butylbenzene	23.8	D	µg/kg wet		20.0		119	70-130		
Carbon disulfide	21.0	D	µg/kg wet		20.0		105	70-130		
Carbon tetrachloride	28.4	QC2, D	µg/kg wet		20.0		142	70-130		
Chlorobenzene	20.5	D	µg/kg wet		20.0		102	70-130		
Chloroethane	14.6	D	µg/kg wet		20.0		73	70-130		
Chloroform	22.1	D	µg/kg wet		20.0		110	70-130		
Chloromethane	12.8	D	µg/kg wet		20.0		64	70-130		
2-Chlorotoluene	21.5	D	µg/kg wet		20.0		107	70-130		
4-Chlorotoluene	22.1	D	µg/kg wet		20.0		110	70-130		
1,2-Dibromo-3-chloropropane	18.9	D	µg/kg wet		20.0		94	70-130		
Dibromochloromethane	23.4	D	µg/kg wet		20.0		117	70-130		
1,2-Dibromoethane (EDB)	21.4	D	µg/kg wet		20.0		107	70-130		
Dibromomethane	20.3	D	µg/kg wet		20.0		102	70-130		
1,2-Dichlorobenzene	20.4	D	µg/kg wet		20.0		102	70-130		
1,3-Dichlorobenzene	21.6	D	µg/kg wet		20.0		108	70-130		
1,4-Dichlorobenzene	20.0	D	µg/kg wet		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	20.0	D	µg/kg wet		20.0		100	70-130		
1,1-Dichloroethane	19.4	D	µg/kg wet		20.0		97	70-130		
1,2-Dichloroethane	22.9	D	µg/kg wet		20.0		115	70-130		
1,1-Dichloroethene	19.4	D	µg/kg wet		20.0		97	70-130		
cis-1,2-Dichloroethene	20.6	D	µg/kg wet		20.0		103	70-130		
trans-1,2-Dichloroethene	21.3	D	µg/kg wet		20.0		106	70-130		
1,2-Dichloropropane	17.3	D	µg/kg wet		20.0		87	70-130		
1,3-Dichloropropane	19.6	D	µg/kg wet		20.0		98	70-130		
2,2-Dichloropropane	25.5	D	µg/kg wet		20.0		127	70-130		
1,1-Dichloropropene	22.3	D	µg/kg wet		20.0		111	70-130		
cis-1,3-Dichloropropene	20.4	D	µg/kg wet		20.0		102	70-130		
trans-1,3-Dichloropropene	20.6	D	µg/kg wet		20.0		103	70-130		
Ethylbenzene	21.7	D	µg/kg wet		20.0		108	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
<u>LCS (1424801-BS1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
Hexachlorobutadiene	26.8	QC2, D	µg/kg wet		20.0		134	70-130		
2-Hexanone (MBK)	16.8	D	µg/kg wet		20.0		84	70-130		
Isopropylbenzene	22.6	D	µg/kg wet		20.0		113	70-130		
4-Isopropyltoluene	21.9	D	µg/kg wet		20.0		110	70-130		
Methyl tert-butyl ether	21.5	D	µg/kg wet		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	18.2	D	µg/kg wet		20.0		91	70-130		
Methylene chloride	16.3	D	µg/kg wet		20.0		82	70-130		
Naphthalene	19.8	D	µg/kg wet		20.0		99	70-130		
n-Propylbenzene	22.6	D	µg/kg wet		20.0		113	70-130		
Styrene	21.3	D	µg/kg wet		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	24.2	D	µg/kg wet		20.0		121	70-130		
1,1,2,2-Tetrachloroethane	17.6	D	µg/kg wet		20.0		88	70-130		
Tetrachloroethene	24.4	D	µg/kg wet		20.0		122	70-130		
Toluene	20.2	D	µg/kg wet		20.0		101	70-130		
1,2,3-Trichlorobenzene	21.3	D	µg/kg wet		20.0		106	70-130		
1,2,4-Trichlorobenzene	19.8	D	µg/kg wet		20.0		99	70-130		
1,3,5-Trichlorobenzene	21.9	D	µg/kg wet		20.0		110	70-130		
1,1,1-Trichloroethane	26.8	QC2, D	µg/kg wet		20.0		134	70-130		
1,1,2-Trichloroethane	19.3	D	µg/kg wet		20.0		97	70-130		
Trichloroethene	23.4	D	µg/kg wet		20.0		117	70-130		
Trichlorofluoromethane (Freon 11)	27.4	QC2, D	µg/kg wet		20.0		137	70-130		
1,2,3-Trichloropropane	19.5	D	µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	23.3	D	µg/kg wet		20.0		116	70-130		
1,3,5-Trimethylbenzene	23.3	D	µg/kg wet		20.0		117	70-130		
Vinyl chloride	25.9	D	µg/kg wet		20.0		129	70-130		
m,p-Xylene	22.0	D	µg/kg wet		20.0		110	70-130		
o-Xylene	21.7	D	µg/kg wet		20.0		108	70-130		
Tetrahydrofuran	13.2	QC2, D	µg/kg wet		20.0		66	70-130		
Ethyl ether	15.8	D	µg/kg wet		20.0		79	70-130		
Tert-amyl methyl ether	19.7	D	µg/kg wet		20.0		98	70-130		
Ethyl tert-butyl ether	19.4	D	µg/kg wet		20.0		97	70-130		
Di-isopropyl ether	15.4	D	µg/kg wet		20.0		77	70-130		
Tert-Butanol / butyl alcohol	179	D	µg/kg wet		200		89	70-130		
1,4-Dioxane	176	D	µg/kg wet		200		88	70-130		
trans-1,4-Dichloro-2-butene	17.5	D	µg/kg wet		20.0		87	70-130		
Ethanol	253	QC2, D	µg/kg wet		400		63	70-130		
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Surrogate: 4-Bromofluorobenzene	31.3		µg/kg wet		30.0		104	70-130		
Surrogate: Toluene-d8	29.4		µg/kg wet		30.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	34.0		µg/kg wet		30.0		113	70-130		
Surrogate: Dibromofluoromethane	32.5		µg/kg wet		30.0		108	70-130		
<u>LCS Dup (1424801-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.5	D	µg/kg wet		20.0		108	70-130	2	30
Acetone	16.1	D	µg/kg wet		20.0		80	70-130	1	30
Acrylonitrile	13.3	QC2, D	µg/kg wet		20.0		67	70-130	2	30
Benzene	19.2	D	µg/kg wet		20.0		96	70-130	1	30
Bromobenzene	22.4	D	µg/kg wet		20.0		112	70-130	5	30
Bromochloromethane	21.1	D	µg/kg wet		20.0		105	70-130	3	30
Bromodichloromethane	23.6	D	µg/kg wet		20.0		118	70-130	1	30
Bromoform	24.5	D	µg/kg wet		20.0		123	70-130	1	30
Bromomethane	18.2	D	µg/kg wet		20.0		91	70-130	6	30
2-Butanone (MEK)	16.7	D	µg/kg wet		20.0		83	70-130	2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
<u>LCS Dup (1424801-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
n-Butylbenzene	20.7	D	µg/kg wet		20.0		103	70-130	2	30
sec-Butylbenzene	22.8	D	µg/kg wet		20.0		114	70-130	0.3	30
tert-Butylbenzene	23.9	D	µg/kg wet		20.0		120	70-130	0.7	30
Carbon disulfide	21.1	D	µg/kg wet		20.0		106	70-130	0.6	30
Carbon tetrachloride	28.3	QC2, D	µg/kg wet		20.0		142	70-130	0.5	30
Chlorobenzene	20.3	D	µg/kg wet		20.0		102	70-130	0.7	30
Chloroethane	14.3	D	µg/kg wet		20.0		72	70-130	2	30
Chloroform	22.0	D	µg/kg wet		20.0		110	70-130	0.1	30
Chloromethane	12.8	D	µg/kg wet		20.0		64	70-130	0.5	30
2-Chlorotoluene	21.5	D	µg/kg wet		20.0		107	70-130	0	30
4-Chlorotoluene	22.0	D	µg/kg wet		20.0		110	70-130	0.1	30
1,2-Dibromo-3-chloropropane	19.5	D	µg/kg wet		20.0		98	70-130	3	30
Dibromochloromethane	23.8	D	µg/kg wet		20.0		119	70-130	2	30
1,2-Dibromoethane (EDB)	22.3	D	µg/kg wet		20.0		112	70-130	4	30
Dibromomethane	20.3	D	µg/kg wet		20.0		102	70-130	0.05	30
1,2-Dichlorobenzene	19.9	D	µg/kg wet		20.0		99	70-130	2	30
1,3-Dichlorobenzene	21.6	D	µg/kg wet		20.0		108	70-130	0	30
1,4-Dichlorobenzene	19.4	D	µg/kg wet		20.0		97	70-130	3	30
Dichlorodifluoromethane (Freon12)	20.4	D	µg/kg wet		20.0		102	70-130	2	30
1,1-Dichloroethane	19.7	D	µg/kg wet		20.0		98	70-130	2	30
1,2-Dichloroethane	23.0	D	µg/kg wet		20.0		115	70-130	0.3	30
1,1-Dichloroethene	18.7	D	µg/kg wet		20.0		93	70-130	4	30
cis-1,2-Dichloroethene	21.0	D	µg/kg wet		20.0		105	70-130	2	30
trans-1,2-Dichloroethene	20.7	D	µg/kg wet		20.0		103	70-130	3	30
1,2-Dichloropropane	17.1	D	µg/kg wet		20.0		85	70-130	2	30
1,3-Dichloropropane	19.6	D	µg/kg wet		20.0		98	70-130	0.4	30
2,2-Dichloropropane	25.0	D	µg/kg wet		20.0		125	70-130	2	30
1,1-Dichloropropene	21.9	D	µg/kg wet		20.0		110	70-130	1	30
cis-1,3-Dichloropropene	19.8	D	µg/kg wet		20.0		99	70-130	3	30
trans-1,3-Dichloropropene	20.2	D	µg/kg wet		20.0		101	70-130	2	30
Ethylbenzene	21.2	D	µg/kg wet		20.0		106	70-130	2	30
Hexachlorobutadiene	26.7	QC2, D	µg/kg wet		20.0		133	70-130	0.3	30
2-Hexanone (MBK)	16.7	D	µg/kg wet		20.0		83	70-130	0.7	30
Isopropylbenzene	22.4	D	µg/kg wet		20.0		112	70-130	0.8	30
4-Isopropyltoluene	21.9	D	µg/kg wet		20.0		110	70-130	0.05	30
Methyl tert-butyl ether	21.7	D	µg/kg wet		20.0		108	70-130	0.8	30
4-Methyl-2-pentanone (MIBK)	17.8	D	µg/kg wet		20.0		89	70-130	3	30
Methylene chloride	16.5	D	µg/kg wet		20.0		83	70-130	1	30
Naphthalene	19.2	D	µg/kg wet		20.0		96	70-130	3	30
n-Propylbenzene	21.6	D	µg/kg wet		20.0		108	70-130	5	30
Styrene	21.0	D	µg/kg wet		20.0		105	70-130	2	30
1,1,1,2-Tetrachloroethane	24.3	D	µg/kg wet		20.0		121	70-130	0.4	30
1,1,1,2,2-Tetrachloroethane	17.5	D	µg/kg wet		20.0		88	70-130	0.2	30
Tetrachloroethene	24.6	D	µg/kg wet		20.0		123	70-130	0.5	30
Toluene	20.6	D	µg/kg wet		20.0		103	70-130	2	30
1,2,3-Trichlorobenzene	21.3	D	µg/kg wet		20.0		107	70-130	0.2	30
1,2,4-Trichlorobenzene	20.5	D	µg/kg wet		20.0		102	70-130	3	30
1,3,5-Trichlorobenzene	21.8	D	µg/kg wet		20.0		109	70-130	0.6	30
1,1,1-Trichloroethane	26.2	QC2, D	µg/kg wet		20.0		131	70-130	2	30
1,1,2-Trichloroethane	18.5	D	µg/kg wet		20.0		93	70-130	4	30
Trichloroethene	22.5	D	µg/kg wet		20.0		112	70-130	4	30
Trichlorofluoromethane (Freon 11)	27.1	QC2, D	µg/kg wet		20.0		136	70-130	1	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
<u>LCS Dup (1424801-BSD1)</u>					<u>Prepared & Analyzed: 21-Oct-14</u>					
1,2,3-Trichloropropane	20.2	D	µg/kg wet		20.0		101	70-130	4	30
1,2,4-Trimethylbenzene	22.9	D	µg/kg wet		20.0		114	70-130	2	30
1,3,5-Trimethylbenzene	23.2	D	µg/kg wet		20.0		116	70-130	0.4	30
Vinyl chloride	25.8	D	µg/kg wet		20.0		129	70-130	0.2	30
m,p-Xylene	21.4	D	µg/kg wet		20.0		107	70-130	2	30
o-Xylene	21.4	D	µg/kg wet		20.0		107	70-130	2	30
Tetrahydrofuran	13.0	QC2, D	µg/kg wet		20.0		65	70-130	1	30
Ethyl ether	16.1	D	µg/kg wet		20.0		80	70-130	2	30
Tert-amyl methyl ether	20.0	D	µg/kg wet		20.0		100	70-130	2	30
Ethyl tert-butyl ether	19.1	D	µg/kg wet		20.0		95	70-130	2	30
Di-isopropyl ether	15.8	D	µg/kg wet		20.0		79	70-130	2	30
Tert-Butanol / butyl alcohol	172	D	µg/kg wet		200		86	70-130	4	30
1,4-Dioxane	181	D	µg/kg wet		200		91	70-130	3	30
trans-1,4-Dichloro-2-butene	16.2	D	µg/kg wet		20.0		81	70-130	7	30
Ethanol	254	QC2, D	µg/kg wet		400		63	70-130	0.2	30
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Surrogate: 4-Bromofluorobenzene	30.9		µg/kg wet		30.0		103	70-130		
Surrogate: Toluene-d8	30.5		µg/kg wet		30.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4	34.3		µg/kg wet		30.0		114	70-130		
Surrogate: Dibromofluoromethane	33.0		µg/kg wet		30.0		110	70-130		
<u>Matrix Spike (1424801-MS1)</u>					<u>Source: SB98283-06</u>		<u>Prepared & Analyzed: 21-Oct-14</u>			
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.6	D	µg/kg dry		20.0	BRL	118	70-130		
Acetone	12.6	QM7, D	µg/kg dry		20.0	BRL	63	70-130		
Acrylonitrile	16.5	D	µg/kg dry		20.0	BRL	82	70-130		
Benzene	20.8	D	µg/kg dry		20.0	BRL	104	70-130		
Bromobenzene	25.7	D	µg/kg dry		20.0	BRL	128	70-130		
Bromochloromethane	21.9	D	µg/kg dry		20.0	BRL	109	70-130		
Bromodichloromethane	22.4	D	µg/kg dry		20.0	BRL	112	70-130		
Bromoform	20.4	D	µg/kg dry		20.0	BRL	102	70-130		
Bromomethane	13.1	QM7, D	µg/kg dry		20.0	BRL	66	70-130		
2-Butanone (MEK)	22.4	D	µg/kg dry		20.0	BRL	112	70-130		
n-Butylbenzene	25.5	D	µg/kg dry		20.0	BRL	128	70-130		
sec-Butylbenzene	27.8	QM7, D	µg/kg dry		20.0	BRL	139	70-130		
tert-Butylbenzene	28.2	QM7, D	µg/kg dry		20.0	BRL	141	70-130		
Carbon disulfide	14.2	D	µg/kg dry		20.0	BRL	71	70-130		
Carbon tetrachloride	25.6	D	µg/kg dry		20.0	BRL	128	70-130		
Chlorobenzene	22.5	D	µg/kg dry		20.0	BRL	112	70-130		
Chloroethane	14.8	D	µg/kg dry		20.0	BRL	74	70-130		
Chloroform	23.8	D	µg/kg dry		20.0	BRL	119	70-130		
Chloromethane	12.2	QM7, D	µg/kg dry		20.0	BRL	61	70-130		
2-Chlorotoluene	25.1	D	µg/kg dry		20.0	BRL	126	70-130		
4-Chlorotoluene	26.3	QM7, D	µg/kg dry		20.0	BRL	132	70-130		
1,2-Dibromo-3-chloropropane	14.6	D	µg/kg dry		20.0	BRL	73	70-130		
Dibromochloromethane	20.8	D	µg/kg dry		20.0	BRL	104	70-130		
1,2-Dibromoethane (EDB)	22.4	D	µg/kg dry		20.0	BRL	112	70-130		
Dibromomethane	20.8	D	µg/kg dry		20.0	BRL	104	70-130		
1,2-Dichlorobenzene	22.5	D	µg/kg dry		20.0	0.6	110	70-130		
1,3-Dichlorobenzene	25.5	D	µg/kg dry		20.0	BRL	128	70-130		
1,4-Dichlorobenzene	22.3	D	µg/kg dry		20.0	BRL	112	70-130		
Dichlorodifluoromethane (Freon12)	19.6	D	µg/kg dry		20.0	BRL	98	70-130		
1,1-Dichloroethane	21.0	D	µg/kg dry		20.0	BRL	105	70-130		
1,2-Dichloroethane	23.0	D	µg/kg dry		20.0	BRL	115	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
Matrix Spike (1424801-MS1)			Source: SB98283-06			Prepared & Analyzed: 21-Oct-14				
1,1-Dichloroethene	20.0	D	µg/kg dry		20.0	BRL	100	70-130		
cis-1,2-Dichloroethene	22.0	D	µg/kg dry		20.0	BRL	110	70-130		
trans-1,2-Dichloroethene	21.9	D	µg/kg dry		20.0	BRL	109	70-130		
1,2-Dichloropropane	18.6	D	µg/kg dry		20.0	BRL	93	70-130		
1,3-Dichloropropane	21.3	D	µg/kg dry		20.0	BRL	106	70-130		
2,2-Dichloropropane	28.3	QM7, D	µg/kg dry		20.0	BRL	141	70-130		
1,1-Dichloropropene	24.6	D	µg/kg dry		20.0	BRL	123	70-130		
cis-1,3-Dichloropropene	20.5	D	µg/kg dry		20.0	BRL	102	70-130		
trans-1,3-Dichloropropene	20.2	D	µg/kg dry		20.0	BRL	101	70-130		
Ethylbenzene	23.6	D	µg/kg dry		20.0	BRL	118	70-130		
Hexachlorobutadiene	30.1	QC2, D	µg/kg dry		20.0	BRL	151	70-130		
2-Hexanone (MBK)	17.2	D	µg/kg dry		20.0	BRL	86	70-130		
Isopropylbenzene	26.1	D	µg/kg dry		20.0	BRL	130	70-130		
4-Isopropyltoluene	25.7	D	µg/kg dry		20.0	BRL	128	70-130		
Methyl tert-butyl ether	22.8	D	µg/kg dry		20.0	BRL	114	70-130		
4-Methyl-2-pentanone (MIBK)	21.7	D	µg/kg dry		20.0	BRL	108	70-130		
Methylene chloride	19.3	D	µg/kg dry		20.0	BRL	97	70-130		
Naphthalene	21.0	D	µg/kg dry		20.0	BRL	105	70-130		
n-Propylbenzene	26.3	QM7, D	µg/kg dry		20.0	BRL	132	70-130		
Styrene	23.9	D	µg/kg dry		20.0	BRL	120	70-130		
1,1,1,2-Tetrachloroethane	23.8	D	µg/kg dry		20.0	BRL	119	70-130		
1,1,2,2-Tetrachloroethane	19.6	D	µg/kg dry		20.0	BRL	98	70-130		
Tetrachloroethene	26.5	QM7, D	µg/kg dry		20.0	BRL	133	70-130		
Toluene	23.0	D	µg/kg dry		20.0	BRL	115	70-130		
1,2,3-Trichlorobenzene	22.7	D	µg/kg dry		20.0	BRL	114	70-130		
1,2,4-Trichlorobenzene	23.0	D	µg/kg dry		20.0	BRL	115	70-130		
1,3,5-Trichlorobenzene	25.6	D	µg/kg dry		20.0	BRL	128	70-130		
1,1,1-Trichloroethane	27.3	QC2, D	µg/kg dry		20.0	BRL	136	70-130		
1,1,2-Trichloroethane	20.6	D	µg/kg dry		20.0	BRL	103	70-130		
Trichloroethene	24.2	D	µg/kg dry		20.0	BRL	121	70-130		
Trichlorofluoromethane (Freon 11)	26.6	QC2, D	µg/kg dry		20.0	BRL	133	70-130		
1,2,3-Trichloropropane	20.4	D	µg/kg dry		20.0	BRL	102	70-130		
1,2,4-Trimethylbenzene	27.0	QM7, D	µg/kg dry		20.0	BRL	135	70-130		
1,3,5-Trimethylbenzene	26.6	QM7, D	µg/kg dry		20.0	BRL	133	70-130		
Vinyl chloride	22.4	D	µg/kg dry		20.0	BRL	112	70-130		
m,p-Xylene	23.9	D	µg/kg dry		20.0	BRL	119	70-130		
o-Xylene	23.6	D	µg/kg dry		20.0	BRL	118	70-130		
Tetrahydrofuran	13.7	QC2, D	µg/kg dry		20.0	BRL	68	70-130		
Ethyl ether	16.9	D	µg/kg dry		20.0	BRL	84	70-130		
Tert-amyl methyl ether	20.8	D	µg/kg dry		20.0	BRL	104	70-130		
Ethyl tert-butyl ether	20.3	D	µg/kg dry		20.0	BRL	102	70-130		
Di-isopropyl ether	16.6	D	µg/kg dry		20.0	BRL	83	70-130		
Tert-Butanol / butyl alcohol	213	D	µg/kg dry		200	BRL	107	70-130		
1,4-Dioxane	210	D	µg/kg dry		200	BRL	105	70-130		
trans-1,4-Dichloro-2-butene	16.3	D	µg/kg dry		20.0	BRL	82	70-130		
Ethanol	258	QC2, D	µg/kg dry		400	BRL	65	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	31.8		µg/kg dry		30.0		106	70-130		
<i>Surrogate: Toluene-d8</i>	30.8		µg/kg dry		30.0		102	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	32.8		µg/kg dry		30.0		110	70-130		
<i>Surrogate: Dibromofluoromethane</i>	32.3		µg/kg dry		30.0		108	70-130		
Matrix Spike Dup (1424801-MSD1)			Source: SB98283-06			Prepared & Analyzed: 21-Oct-14				

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1424801-MSD1)			Source: SB98283-06			Prepared & Analyzed: 21-Oct-14				
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.4	D	µg/kg dry		20.0	BRL	107	70-130	10	30
Acetone	14.8	D	µg/kg dry		20.0	BRL	74	70-130	16	30
Acrylonitrile	15.2	D	µg/kg dry		20.0	BRL	76	70-130	8	30
Benzene	19.2	D	µg/kg dry		20.0	BRL	96	70-130	8	30
Bromobenzene	23.5	D	µg/kg dry		20.0	BRL	118	70-130	9	30
Bromochloromethane	21.1	D	µg/kg dry		20.0	BRL	105	70-130	4	30
Bromodichloromethane	20.9	D	µg/kg dry		20.0	BRL	105	70-130	7	30
Bromoform	19.1	D	µg/kg dry		20.0	BRL	96	70-130	7	30
Bromomethane	11.5	QM7, D	µg/kg dry		20.0	BRL	57	70-130	13	30
2-Butanone (MEK)	22.5	D	µg/kg dry		20.0	BRL	113	70-130	0.8	30
n-Butylbenzene	22.8	D	µg/kg dry		20.0	BRL	114	70-130	11	30
sec-Butylbenzene	25.5	D	µg/kg dry		20.0	BRL	127	70-130	9	30
tert-Butylbenzene	25.9	D	µg/kg dry		20.0	BRL	129	70-130	9	30
Carbon disulfide	13.2	QM7, D	µg/kg dry		20.0	BRL	66	70-130	7	30
Carbon tetrachloride	23.8	D	µg/kg dry		20.0	BRL	119	70-130	8	30
Chlorobenzene	21.4	D	µg/kg dry		20.0	BRL	107	70-130	5	30
Chloroethane	13.2	QM7, D	µg/kg dry		20.0	BRL	66	70-130	11	30
Chloroform	21.8	D	µg/kg dry		20.0	BRL	109	70-130	9	30
Chloromethane	11.4	QM7, D	µg/kg dry		20.0	BRL	57	70-130	7	30
2-Chlorotoluene	23.3	D	µg/kg dry		20.0	BRL	116	70-130	8	30
4-Chlorotoluene	23.7	D	µg/kg dry		20.0	BRL	118	70-130	11	30
1,2-Dibromo-3-chloropropane	15.2	D	µg/kg dry		20.0	BRL	76	70-130	4	30
Dibromochloromethane	19.5	D	µg/kg dry		20.0	BRL	97	70-130	6	30
1,2-Dibromoethane (EDB)	21.1	D	µg/kg dry		20.0	BRL	106	70-130	6	30
Dibromomethane	19.3	D	µg/kg dry		20.0	BRL	96	70-130	7	30
1,2-Dichlorobenzene	20.7	D	µg/kg dry		20.0	0.6	101	70-130	9	30
1,3-Dichlorobenzene	23.0	D	µg/kg dry		20.0	BRL	115	70-130	10	30
1,4-Dichlorobenzene	20.5	D	µg/kg dry		20.0	BRL	102	70-130	9	30
Dichlorodifluoromethane (Freon12)	18.2	D	µg/kg dry		20.0	BRL	91	70-130	8	30
1,1-Dichloroethane	19.4	D	µg/kg dry		20.0	BRL	97	70-130	8	30
1,2-Dichloroethane	20.9	D	µg/kg dry		20.0	BRL	104	70-130	10	30
1,1-Dichloroethene	17.9	D	µg/kg dry		20.0	BRL	89	70-130	11	30
cis-1,2-Dichloroethene	20.9	D	µg/kg dry		20.0	BRL	105	70-130	5	30
trans-1,2-Dichloroethene	19.7	D	µg/kg dry		20.0	BRL	98	70-130	11	30
1,2-Dichloropropane	17.8	D	µg/kg dry		20.0	BRL	89	70-130	5	30
1,3-Dichloropropane	19.7	D	µg/kg dry		20.0	BRL	98	70-130	8	30
2,2-Dichloropropane	24.3	D	µg/kg dry		20.0	BRL	122	70-130	15	30
1,1-Dichloropropene	21.6	D	µg/kg dry		20.0	BRL	108	70-130	13	30
cis-1,3-Dichloropropene	19.5	D	µg/kg dry		20.0	BRL	97	70-130	5	30
trans-1,3-Dichloropropene	18.3	D	µg/kg dry		20.0	BRL	92	70-130	10	30
Ethylbenzene	22.2	D	µg/kg dry		20.0	BRL	111	70-130	6	30
Hexachlorobutadiene	28.4	QC2, D	µg/kg dry		20.0	BRL	142	70-130	6	30
2-Hexanone (MBK)	17.2	D	µg/kg dry		20.0	BRL	86	70-130	0	30
Isopropylbenzene	24.0	D	µg/kg dry		20.0	BRL	120	70-130	8	30
4-Isopropyltoluene	23.3	D	µg/kg dry		20.0	BRL	116	70-130	10	30
Methyl tert-butyl ether	21.8	D	µg/kg dry		20.0	BRL	109	70-130	4	30
4-Methyl-2-pentanone (MIBK)	20.6	D	µg/kg dry		20.0	BRL	103	70-130	5	30
Methylene chloride	18.0	D	µg/kg dry		20.0	BRL	90	70-130	7	30
Naphthalene	19.9	D	µg/kg dry		20.0	BRL	100	70-130	5	30
n-Propylbenzene	23.9	D	µg/kg dry		20.0	BRL	119	70-130	10	30
Styrene	22.6	D	µg/kg dry		20.0	BRL	113	70-130	6	30
1,1,1,2-Tetrachloroethane	22.5	D	µg/kg dry		20.0	BRL	113	70-130	6	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424801 - SW846 5035A Soil (high level)										
<u>Matrix Spike Dup (1424801-MSD1)</u>			<u>Source: SB98283-06</u>			<u>Prepared & Analyzed: 21-Oct-14</u>				
1,1,2,2-Tetrachloroethane	18.0	D	µg/kg dry		20.0	BRL	90	70-130	9	30
Tetrachloroethene	23.5	D	µg/kg dry		20.0	BRL	117	70-130	12	30
Toluene	20.8	D	µg/kg dry		20.0	BRL	104	70-130	10	30
1,2,3-Trichlorobenzene	21.0	D	µg/kg dry		20.0	BRL	105	70-130	8	30
1,2,4-Trichlorobenzene	20.7	D	µg/kg dry		20.0	BRL	103	70-130	11	30
1,3,5-Trichlorobenzene	23.6	D	µg/kg dry		20.0	BRL	118	70-130	8	30
1,1,1-Trichloroethane	25.5	D	µg/kg dry		20.0	BRL	128	70-130	7	30
1,1,2-Trichloroethane	19.2	D	µg/kg dry		20.0	BRL	96	70-130	7	30
Trichloroethene	22.6	D	µg/kg dry		20.0	BRL	113	70-130	7	30
Trichlorofluoromethane (Freon 11)	23.6	D	µg/kg dry		20.0	BRL	118	70-130	12	30
1,2,3-Trichloropropane	20.7	D	µg/kg dry		20.0	BRL	103	70-130	1	30
1,2,4-Trimethylbenzene	24.7	D	µg/kg dry		20.0	BRL	124	70-130	9	30
1,3,5-Trimethylbenzene	24.8	D	µg/kg dry		20.0	BRL	124	70-130	7	30
Vinyl chloride	21.8	D	µg/kg dry		20.0	BRL	109	70-130	3	30
m,p-Xylene	22.0	D	µg/kg dry		20.0	BRL	110	70-130	8	30
o-Xylene	21.8	D	µg/kg dry		20.0	BRL	109	70-130	8	30
Tetrahydrofuran	12.4	QC2, D	µg/kg dry		20.0	BRL	62	70-130	10	30
Ethyl ether	15.4	D	µg/kg dry		20.0	BRL	77	70-130	9	30
Tert-amyl methyl ether	20.0	D	µg/kg dry		20.0	BRL	100	70-130	4	30
Ethyl tert-butyl ether	19.2	D	µg/kg dry		20.0	BRL	96	70-130	6	30
Di-isopropyl ether	15.2	D	µg/kg dry		20.0	BRL	76	70-130	9	30
Tert-Butanol / butyl alcohol	206	D	µg/kg dry		200	BRL	103	70-130	4	30
1,4-Dioxane	195	D	µg/kg dry		200	BRL	98	70-130	8	30
trans-1,4-Dichloro-2-butene	15.6	D	µg/kg dry		20.0	BRL	78	70-130	5	30
Ethanol	260	QC2, D	µg/kg dry		400	BRL	65	70-130	0.6	30
<i>Surrogate: 4-Bromofluorobenzene</i>	31.7		µg/kg dry		30.0		106	70-130		
<i>Surrogate: Toluene-d8</i>	29.9		µg/kg dry		30.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	33.6		µg/kg dry		30.0		112	70-130		
<i>Surrogate: Dibromofluoromethane</i>	32.0		µg/kg dry		30.0		107	70-130		
Batch 1424908 - SW846 5030 Water MS										
<u>Blank (1424908-BLK1)</u>			<u>Prepared & Analyzed: 22-Oct-14</u>							
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.7	U	µg/l	0.7						
Acetone	< 3.6	U	µg/l	3.6						
Acrylonitrile	< 0.5	U	µg/l	0.5						
Benzene	< 0.3	U	µg/l	0.3						
Bromobenzene	< 0.3	U	µg/l	0.3						
Bromochloromethane	< 0.3	U	µg/l	0.3						
Bromodichloromethane	< 0.4	U	µg/l	0.4						
Bromoform	< 0.6	U	µg/l	0.6						
Bromomethane	< 0.5	U	µg/l	0.5						
2-Butanone (MEK)	< 3.1	U	µg/l	3.1						
n-Butylbenzene	< 0.4	U	µg/l	0.4						
sec-Butylbenzene	< 0.4	U	µg/l	0.4						
tert-Butylbenzene	< 0.4	U	µg/l	0.4						
Carbon disulfide	< 0.7	U	µg/l	0.7						
Carbon tetrachloride	< 0.4	U	µg/l	0.4						
Chlorobenzene	< 0.3	U	µg/l	0.3						
Chloroethane	< 0.7	U	µg/l	0.7						
Chloroform	< 0.5	U	µg/l	0.5						
Chloromethane	< 0.5	U	µg/l	0.5						
2-Chlorotoluene	< 0.4	U	µg/l	0.4						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424908 - SW846 5030 Water MS										
<u>Blank (1424908-BLK1)</u>						<u>Prepared & Analyzed: 22-Oct-14</u>				
4-Chlorotoluene	< 0.3	U	µg/l	0.3						
1,2-Dibromo-3-chloropropane	< 0.5	U	µg/l	0.5						
Dibromochloromethane	< 0.4	U	µg/l	0.4						
1,2-Dibromoethane (EDB)	< 0.3	U	µg/l	0.3						
Dibromomethane	< 0.4	U	µg/l	0.4						
1,2-Dichlorobenzene	< 0.4	U	µg/l	0.4						
1,3-Dichlorobenzene	< 0.4	U	µg/l	0.4						
1,4-Dichlorobenzene	< 0.5	U	µg/l	0.5						
Dichlorodifluoromethane (Freon12)	< 0.6	U	µg/l	0.6						
1,1-Dichloroethane	< 0.3	U	µg/l	0.3						
1,2-Dichloroethane	< 0.3	U	µg/l	0.3						
1,1-Dichloroethene	< 0.5	U	µg/l	0.5						
cis-1,2-Dichloroethene	< 0.4	U	µg/l	0.4						
trans-1,2-Dichloroethene	< 0.5	U	µg/l	0.5						
1,2-Dichloropropane	< 0.3	U	µg/l	0.3						
1,3-Dichloropropane	< 0.2	U	µg/l	0.2						
2,2-Dichloropropane	< 0.3	U	µg/l	0.3						
1,1-Dichloropropene	< 0.4	U	µg/l	0.4						
cis-1,3-Dichloropropene	< 0.4	U	µg/l	0.4						
trans-1,3-Dichloropropene	< 0.5	U	µg/l	0.5						
Ethylbenzene	< 0.4	U	µg/l	0.4						
Hexachlorobutadiene	< 0.4	U	µg/l	0.4						
2-Hexanone (MBK)	< 2.0	U	µg/l	2.0						
Isopropylbenzene	< 0.5	U	µg/l	0.5						
4-Isopropyltoluene	< 0.5	U	µg/l	0.5						
Methyl tert-butyl ether	< 0.4	U	µg/l	0.4						
4-Methyl-2-pentanone (MIBK)	< 2.5	U	µg/l	2.5						
Methylene chloride	< 0.5	U	µg/l	0.5						
Naphthalene	< 0.5	U	µg/l	0.5						
n-Propylbenzene	< 0.4	U	µg/l	0.4						
Styrene	< 0.4	U	µg/l	0.4						
1,1,1,2-Tetrachloroethane	< 0.4	U	µg/l	0.4						
1,1,2,2-Tetrachloroethane	< 0.5	U	µg/l	0.5						
Tetrachloroethene	< 0.6	U	µg/l	0.6						
Toluene	< 0.3	U	µg/l	0.3						
1,2,3-Trichlorobenzene	< 0.8	U	µg/l	0.8						
1,2,4-Trichlorobenzene	< 0.4	U	µg/l	0.4						
1,3,5-Trichlorobenzene	< 0.6	U	µg/l	0.6						
1,1,1-Trichloroethane	< 0.4	U	µg/l	0.4						
1,1,2-Trichloroethane	< 0.3	U	µg/l	0.3						
Trichloroethene	< 0.4	U	µg/l	0.4						
Trichlorofluoromethane (Freon 11)	< 0.8	U	µg/l	0.8						
1,2,3-Trichloropropane	< 0.3	U	µg/l	0.3						
1,2,4-Trimethylbenzene	< 0.3	U	µg/l	0.3						
1,3,5-Trimethylbenzene	< 0.4	U	µg/l	0.4						
Vinyl chloride	< 1.0	U	µg/l	1.0						
m,p-Xylene	< 0.4	U	µg/l	0.4						
o-Xylene	< 0.4	U	µg/l	0.4						
Tetrahydrofuran	< 0.8	U	µg/l	0.8						
Ethyl ether	< 0.5	U	µg/l	0.5						
Tert-amyl methyl ether	< 0.3	U	µg/l	0.3						
Ethyl tert-butyl ether	< 0.4	U	µg/l	0.4						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424908 - SW846 5030 Water MS										
Blank (1424908-BLK1)					<u>Prepared & Analyzed: 22-Oct-14</u>					
Di-isopropyl ether	< 0.3	U	µg/l	0.3						
Tert-Butanol / butyl alcohol	< 8.9	U	µg/l	8.9						
1,4-Dioxane	< 14.6	U	µg/l	14.6						
trans-1,4-Dichloro-2-butene	< 1.0	U	µg/l	1.0						
Ethanol	< 80.8	U	µg/l	80.8						
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Surrogate: 4-Bromofluorobenzene	49.5		µg/l		50.0		99	70-130		
Surrogate: Toluene-d8	49.8		µg/l		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	52.2		µg/l		50.0		104	70-130		
Surrogate: Dibromofluoromethane	51.0		µg/l		50.0		102	70-130		
LCS (1424908-BS1)					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.7		µg/l		20.0		108	70-130		
Acetone	19.8		µg/l		20.0		99	70-130		
Acrylonitrile	18.6		µg/l		20.0		93	70-130		
Benzene	20.0		µg/l		20.0		100	70-130		
Bromobenzene	20.0		µg/l		20.0		100	70-130		
Bromochloromethane	20.0		µg/l		20.0		100	70-130		
Bromodichloromethane	20.8		µg/l		20.0		104	70-130		
Bromoform	20.8		µg/l		20.0		104	70-130		
Bromomethane	18.2		µg/l		20.0		91	70-130		
2-Butanone (MEK)	20.4		µg/l		20.0		102	70-130		
n-Butylbenzene	21.1		µg/l		20.0		106	70-130		
sec-Butylbenzene	21.3		µg/l		20.0		106	70-130		
tert-Butylbenzene	21.4		µg/l		20.0		107	70-130		
Carbon disulfide	21.0		µg/l		20.0		105	70-130		
Carbon tetrachloride	22.2		µg/l		20.0		111	70-130		
Chlorobenzene	19.7		µg/l		20.0		98	70-130		
Chloroethane	18.2		µg/l		20.0		91	70-130		
Chloroform	19.3		µg/l		20.0		96	70-130		
Chloromethane	18.6		µg/l		20.0		93	70-130		
2-Chlorotoluene	20.2		µg/l		20.0		101	70-130		
4-Chlorotoluene	20.5		µg/l		20.0		102	70-130		
1,2-Dibromo-3-chloropropane	20.6		µg/l		20.0		103	70-130		
Dibromochloromethane	21.9		µg/l		20.0		109	70-130		
1,2-Dibromoethane (EDB)	20.3		µg/l		20.0		102	70-130		
Dibromomethane	20.1		µg/l		20.0		100	70-130		
1,2-Dichlorobenzene	19.9		µg/l		20.0		100	70-130		
1,3-Dichlorobenzene	20.0		µg/l		20.0		100	70-130		
1,4-Dichlorobenzene	19.2		µg/l		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	18.4		µg/l		20.0		92	70-130		
1,1-Dichloroethane	19.8		µg/l		20.0		99	70-130		
1,2-Dichloroethane	20.1		µg/l		20.0		101	70-130		
1,1-Dichloroethene	20.8		µg/l		20.0		104	70-130		
cis-1,2-Dichloroethene	19.9		µg/l		20.0		99	70-130		
trans-1,2-Dichloroethene	20.3		µg/l		20.0		101	70-130		
1,2-Dichloropropane	19.9		µg/l		20.0		99	70-130		
1,3-Dichloropropane	20.3		µg/l		20.0		101	70-130		
2,2-Dichloropropane	19.8		µg/l		20.0		99	70-130		
1,1-Dichloropropene	21.6		µg/l		20.0		108	70-130		
cis-1,3-Dichloropropene	21.7		µg/l		20.0		108	70-130		
trans-1,3-Dichloropropene	21.5		µg/l		20.0		108	70-130		
Ethylbenzene	20.8		µg/l		20.0		104	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424908 - SW846 5030 Water MS										
<u>LCS (1424908-BS1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
Hexachlorobutadiene	19.9		µg/l		20.0		99	70-130		
2-Hexanone (MBK)	21.1		µg/l		20.0		106	70-130		
Isopropylbenzene	20.5		µg/l		20.0		102	70-130		
4-Isopropyltoluene	20.9		µg/l		20.0		105	70-130		
Methyl tert-butyl ether	19.7		µg/l		20.0		98	70-130		
4-Methyl-2-pentanone (MIBK)	21.2		µg/l		20.0		106	70-130		
Methylene chloride	18.2		µg/l		20.0		91	70-130		
Naphthalene	21.1		µg/l		20.0		106	70-130		
n-Propylbenzene	21.0		µg/l		20.0		105	70-130		
Styrene	20.8		µg/l		20.0		104	70-130		
1,1,1,2-Tetrachloroethane	20.4		µg/l		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	19.5		µg/l		20.0		97	70-130		
Tetrachloroethene	20.8		µg/l		20.0		104	70-130		
Toluene	20.0		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	21.5		µg/l		20.0		108	70-130		
1,2,4-Trichlorobenzene	20.7		µg/l		20.0		103	70-130		
1,3,5-Trichlorobenzene	20.1		µg/l		20.0		100	70-130		
1,1,1-Trichloroethane	21.5		µg/l		20.0		107	70-130		
1,1,2-Trichloroethane	20.3		µg/l		20.0		101	70-130		
Trichloroethene	21.4		µg/l		20.0		107	70-130		
Trichlorofluoromethane (Freon 11)	22.0		µg/l		20.0		110	70-130		
1,2,3-Trichloropropane	20.1		µg/l		20.0		100	70-130		
1,2,4-Trimethylbenzene	21.2		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	21.2		µg/l		20.0		106	70-130		
Vinyl chloride	19.0		µg/l		20.0		95	70-130		
m,p-Xylene	20.9		µg/l		20.0		104	70-130		
o-Xylene	20.7		µg/l		20.0		104	70-130		
Tetrahydrofuran	20.1		µg/l		20.0		101	70-130		
Ethyl ether	19.0		µg/l		20.0		95	70-130		
Tert-amyl methyl ether	20.2		µg/l		20.0		101	70-130		
Ethyl tert-butyl ether	20.3		µg/l		20.0		102	70-130		
Di-isopropyl ether	19.9		µg/l		20.0		99	70-130		
Tert-Butanol / butyl alcohol	170		µg/l		200		85	70-130		
1,4-Dioxane	205		µg/l		200		103	70-130		
trans-1,4-Dichloro-2-butene	19.8		µg/l		20.0		99	70-130		
Ethanol	347		µg/l		400		87	70-130		
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Surrogate: 4-Bromofluorobenzene	50.0		µg/l		50.0		100	70-130		
Surrogate: Toluene-d8	49.4		µg/l		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.2		µg/l		50.0		100	70-130		
Surrogate: Dibromofluoromethane	47.2		µg/l		50.0		94	70-130		
<u>LCS Dup (1424908-BS1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.3		µg/l		20.0		102	70-130	7	20
Acetone	19.9		µg/l		20.0		100	70-130	0.9	20
Acrylonitrile	18.5		µg/l		20.0		92	70-130	0.8	20
Benzene	19.2		µg/l		20.0		96	70-130	4	20
Bromobenzene	19.1		µg/l		20.0		95	70-130	5	20
Bromochloromethane	18.8		µg/l		20.0		94	70-130	6	20
Bromodichloromethane	19.8		µg/l		20.0		99	70-130	5	20
Bromoform	20.0		µg/l		20.0		100	70-130	4	20
Bromomethane	16.9		µg/l		20.0		84	70-130	7	20
2-Butanone (MEK)	21.0		µg/l		20.0		105	70-130	3	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424908 - SW846 5030 Water MS										
<u>LCS Dup (1424908-BSD1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
n-Butylbenzene	20.1		µg/l		20.0		100	70-130	5	20
sec-Butylbenzene	20.1		µg/l		20.0		101	70-130	6	20
tert-Butylbenzene	20.2		µg/l		20.0		101	70-130	6	20
Carbon disulfide	19.4		µg/l		20.0		97	70-130	7	20
Carbon tetrachloride	20.6		µg/l		20.0		103	70-130	8	20
Chlorobenzene	18.8		µg/l		20.0		94	70-130	4	20
Chloroethane	18.1		µg/l		20.0		90	70-130	0.9	20
Chloroform	18.5		µg/l		20.0		92	70-130	4	20
Chloromethane	17.0		µg/l		20.0		85	70-130	8	20
2-Chlorotoluene	19.4		µg/l		20.0		97	70-130	4	20
4-Chlorotoluene	19.4		µg/l		20.0		97	70-130	5	20
1,2-Dibromo-3-chloropropane	19.3		µg/l		20.0		97	70-130	7	20
Dibromochloromethane	21.0		µg/l		20.0		105	70-130	4	20
1,2-Dibromoethane (EDB)	19.8		µg/l		20.0		99	70-130	3	20
Dibromomethane	18.6		µg/l		20.0		93	70-130	8	20
1,2-Dichlorobenzene	19.3		µg/l		20.0		97	70-130	3	20
1,3-Dichlorobenzene	19.1		µg/l		20.0		95	70-130	5	20
1,4-Dichlorobenzene	18.5		µg/l		20.0		92	70-130	4	20
Dichlorodifluoromethane (Freon12)	18.2		µg/l		20.0		91	70-130	1	20
1,1-Dichloroethane	18.9		µg/l		20.0		94	70-130	5	20
1,2-Dichloroethane	19.2		µg/l		20.0		96	70-130	5	20
1,1-Dichloroethene	19.3		µg/l		20.0		97	70-130	7	20
cis-1,2-Dichloroethene	19.2		µg/l		20.0		96	70-130	3	20
trans-1,2-Dichloroethene	19.3		µg/l		20.0		96	70-130	5	20
1,2-Dichloropropane	18.8		µg/l		20.0		94	70-130	6	20
1,3-Dichloropropane	19.2		µg/l		20.0		96	70-130	5	20
2,2-Dichloropropane	18.1		µg/l		20.0		90	70-130	9	20
1,1-Dichloropropene	20.4		µg/l		20.0		102	70-130	6	20
cis-1,3-Dichloropropene	20.5		µg/l		20.0		102	70-130	6	20
trans-1,3-Dichloropropene	20.3		µg/l		20.0		102	70-130	6	20
Ethylbenzene	19.5		µg/l		20.0		98	70-130	7	20
Hexachlorobutadiene	19.1		µg/l		20.0		96	70-130	4	20
2-Hexanone (MBK)	20.6		µg/l		20.0		103	70-130	2	20
Isopropylbenzene	19.6		µg/l		20.0		98	70-130	5	20
4-Isopropyltoluene	19.9		µg/l		20.0		100	70-130	5	20
Methyl tert-butyl ether	18.9		µg/l		20.0		95	70-130	4	20
4-Methyl-2-pentanone (MIBK)	20.7		µg/l		20.0		104	70-130	3	20
Methylene chloride	16.8		µg/l		20.0		84	70-130	8	20
Naphthalene	20.1		µg/l		20.0		100	70-130	5	20
n-Propylbenzene	20.0		µg/l		20.0		100	70-130	5	20
Styrene	19.8		µg/l		20.0		99	70-130	5	20
1,1,1,2-Tetrachloroethane	19.6		µg/l		20.0		98	70-130	4	20
1,1,2,2-Tetrachloroethane	18.4		µg/l		20.0		92	70-130	5	20
Tetrachloroethene	19.6		µg/l		20.0		98	70-130	6	20
Toluene	19.2		µg/l		20.0		96	70-130	4	20
1,2,3-Trichlorobenzene	19.9		µg/l		20.0		99	70-130	8	20
1,2,4-Trichlorobenzene	19.7		µg/l		20.0		99	70-130	5	20
1,3,5-Trichlorobenzene	19.6		µg/l		20.0		98	70-130	2	20
1,1,1-Trichloroethane	19.7		µg/l		20.0		98	70-130	9	20
1,1,2-Trichloroethane	19.2		µg/l		20.0		96	70-130	5	20
Trichloroethene	19.7		µg/l		20.0		99	70-130	8	20
Trichlorofluoromethane (Freon 11)	20.7		µg/l		20.0		104	70-130	6	20

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424908 - SW846 5030 Water MS										
<u>LCS Dup (1424908-BSD1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,2,3-Trichloropropane	19.3		µg/l		20.0		96	70-130	4	20
1,2,4-Trimethylbenzene	20.2		µg/l		20.0		101	70-130	5	20
1,3,5-Trimethylbenzene	20.2		µg/l		20.0		101	70-130	5	20
Vinyl chloride	18.1		µg/l		20.0		91	70-130	4	20
m,p-Xylene	19.8		µg/l		20.0		99	70-130	5	20
o-Xylene	20.0		µg/l		20.0		100	70-130	3	20
Tetrahydrofuran	19.5		µg/l		20.0		98	70-130	3	20
Ethyl ether	17.7		µg/l		20.0		88	70-130	7	20
Tert-amyl methyl ether	19.2		µg/l		20.0		96	70-130	5	20
Ethyl tert-butyl ether	19.2		µg/l		20.0		96	70-130	6	20
Di-isopropyl ether	19.2		µg/l		20.0		96	70-130	3	20
Tert-Butanol / butyl alcohol	170		µg/l		200		85	70-130	0.06	20
1,4-Dioxane	192		µg/l		200		96	70-130	7	20
trans-1,4-Dichloro-2-butene	17.7		µg/l		20.0		89	70-130	11	20
Ethanol	353		µg/l		400		88	70-130	2	20
<i>Surrogate: 4-Bromofluorobenzene</i>	49.8		µg/l		50.0		100	70-130		
<i>Surrogate: Toluene-d8</i>	49.8		µg/l		50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.3		µg/l		50.0		101	70-130		
<i>Surrogate: Dibromofluoromethane</i>	49.4		µg/l		50.0		99	70-130		
Batch 1424920 - SW846 5035A Soil (low level)										
<u>Blank (1424920-BLK1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.0		µg/kg wet	4.0						
Acetone	< 26.4		µg/kg wet	26.4						
Acrylonitrile	< 3.3		µg/kg wet	3.3						
Benzene	< 1.8		µg/kg wet	1.8						
Bromobenzene	< 3.4		µg/kg wet	3.4						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 3.9		µg/kg wet	3.9						
Bromoform	< 4.8		µg/kg wet	4.8						
Bromomethane	< 9.9		µg/kg wet	9.9						
2-Butanone (MEK)	< 16.9		µg/kg wet	16.9						
n-Butylbenzene	< 4.1		µg/kg wet	4.1						
sec-Butylbenzene	< 3.2		µg/kg wet	3.2						
tert-Butylbenzene	< 3.6		µg/kg wet	3.6						
Carbon disulfide	< 2.5		µg/kg wet	2.5						
Carbon tetrachloride	< 2.4		µg/kg wet	2.4						
Chlorobenzene	< 1.8		µg/kg wet	1.8						
Chloroethane	< 4.3		µg/kg wet	4.3						
Chloroform	< 2.6		µg/kg wet	2.6						
Chloromethane	< 9.8		µg/kg wet	9.8						
2-Chlorotoluene	< 2.2		µg/kg wet	2.2						
4-Chlorotoluene	< 2.6		µg/kg wet	2.6						
1,2-Dibromo-3-chloropropane	< 6.5		µg/kg wet	6.5						
Dibromochloromethane	< 1.8		µg/kg wet	1.8						
1,2-Dibromoethane (EDB)	< 1.1		µg/kg wet	1.1						
Dibromomethane	< 2.8		µg/kg wet	2.8						
1,2-Dichlorobenzene	< 2.3		µg/kg wet	2.3						
1,3-Dichlorobenzene	< 3.6		µg/kg wet	3.6						
1,4-Dichlorobenzene	< 2.8		µg/kg wet	2.8						
Dichlorodifluoromethane (Freon12)	< 3.6		µg/kg wet	3.6						
1,1-Dichloroethane	< 2.0		µg/kg wet	2.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424920 - SW846 5035A Soil (low level)										
Blank (1424920-BLK1)					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,2-Dichloroethane	< 2.5		µg/kg wet	2.5						
1,1-Dichloroethene	< 3.3		µg/kg wet	3.3						
cis-1,2-Dichloroethene	< 1.7		µg/kg wet	1.7						
trans-1,2-Dichloroethene	< 3.4		µg/kg wet	3.4						
1,2-Dichloropropane	< 2.3		µg/kg wet	2.3						
1,3-Dichloropropane	< 1.8		µg/kg wet	1.8						
2,2-Dichloropropane	< 3.2		µg/kg wet	3.2						
1,1-Dichloropropene	< 3.0		µg/kg wet	3.0						
cis-1,3-Dichloropropene	< 1.3		µg/kg wet	1.3						
trans-1,3-Dichloropropene	< 2.5		µg/kg wet	2.5						
Ethylbenzene	< 1.7		µg/kg wet	1.7						
Hexachlorobutadiene	< 1.8		µg/kg wet	1.8						
2-Hexanone (MBK)	< 11.5		µg/kg wet	11.5						
Isopropylbenzene	< 4.4		µg/kg wet	4.4						
4-Isopropyltoluene	< 3.0		µg/kg wet	3.0						
Methyl tert-butyl ether	< 2.6		µg/kg wet	2.6						
4-Methyl-2-pentanone (MIBK)	< 15.5		µg/kg wet	15.5						
Methylene chloride	< 3.0		µg/kg wet	3.0						
Naphthalene	< 3.4		µg/kg wet	3.4						
n-Propylbenzene	< 2.0		µg/kg wet	2.0						
Styrene	< 0.3		µg/kg wet	0.3						
1,1,1,2-Tetrachloroethane	< 3.0		µg/kg wet	3.0						
1,1,2,2-Tetrachloroethane	< 3.3		µg/kg wet	3.3						
Tetrachloroethene	< 3.4		µg/kg wet	3.4						
Toluene	< 2.1		µg/kg wet	2.1						
1,2,3-Trichlorobenzene	< 3.6		µg/kg wet	3.6						
1,2,4-Trichlorobenzene	< 2.9		µg/kg wet	2.9						
1,3,5-Trichlorobenzene	< 1.2		µg/kg wet	1.2						
1,1,1-Trichloroethane	< 2.8		µg/kg wet	2.8						
1,1,2-Trichloroethane	< 2.0		µg/kg wet	2.0						
Trichloroethene	< 1.6		µg/kg wet	1.6						
Trichlorofluoromethane (Freon 11)	< 3.4		µg/kg wet	3.4						
1,2,3-Trichloropropane	< 3.0		µg/kg wet	3.0						
1,2,4-Trimethylbenzene	< 3.1		µg/kg wet	3.1						
1,3,5-Trimethylbenzene	< 3.0		µg/kg wet	3.0						
Vinyl chloride	< 3.3		µg/kg wet	3.3						
m,p-Xylene	< 2.9		µg/kg wet	2.9						
o-Xylene	< 3.2		µg/kg wet	3.2						
Tetrahydrofuran	< 7.3		µg/kg wet	7.3						
Ethyl ether	< 4.5		µg/kg wet	4.5						
Tert-amyl methyl ether	< 2.9		µg/kg wet	2.9						
Ethyl tert-butyl ether	< 1.5		µg/kg wet	1.5						
Di-isopropyl ether	< 1.4		µg/kg wet	1.4						
Tert-Butanol / butyl alcohol	< 29.8		µg/kg wet	29.8						
1,4-Dioxane	< 67.4		µg/kg wet	67.4						
trans-1,4-Dichloro-2-butene	< 12.3		µg/kg wet	12.3						
Ethanol	< 570		µg/kg wet	570						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.2		µg/kg wet		50.0		98	70-130		
<i>Surrogate: Toluene-d8</i>	48.3		µg/kg wet		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.8		µg/kg wet		50.0		96	70-130		
<i>Surrogate: Dibromofluoromethane</i>	46.6		µg/kg wet		50.0		93	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424920 - SW846 5035A Soil (low level)										
<u>LCS (1424920-BS1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	13.2	QC2	µg/kg wet		20.0		66	70-130		
Acetone	16.4		µg/kg wet		20.0		82	70-130		
Acrylonitrile	16.8		µg/kg wet		20.0		84	70-130		
Benzene	15.7		µg/kg wet		20.0		78	70-130		
Bromobenzene	17.8		µg/kg wet		20.0		89	70-130		
Bromochloromethane	16.8		µg/kg wet		20.0		84	70-130		
Bromodichloromethane	14.9		µg/kg wet		20.0		75	70-130		
Bromoform	17.3		µg/kg wet		20.0		86	70-130		
Bromomethane	17.0		µg/kg wet		20.0		85	70-130		
2-Butanone (MEK)	18.9		µg/kg wet		20.0		94	70-130		
n-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130		
sec-Butylbenzene	16.8		µg/kg wet		20.0		84	70-130		
tert-Butylbenzene	17.1		µg/kg wet		20.0		86	70-130		
Carbon disulfide	13.6	QM9	µg/kg wet		20.0		68	70-130		
Carbon tetrachloride	12.6	QC2	µg/kg wet		20.0		63	70-130		
Chlorobenzene	17.4		µg/kg wet		20.0		87	70-130		
Chloroethane	15.4		µg/kg wet		20.0		77	70-130		
Chloroform	14.4		µg/kg wet		20.0		72	70-130		
Chloromethane	14.1		µg/kg wet		20.0		71	70-130		
2-Chlorotoluene	17.2		µg/kg wet		20.0		86	70-130		
4-Chlorotoluene	17.8		µg/kg wet		20.0		89	70-130		
1,2-Dibromo-3-chloropropane	15.2		µg/kg wet		20.0		76	70-130		
Dibromochloromethane	15.7		µg/kg wet		20.0		79	70-130		
1,2-Dibromoethane (EDB)	17.4		µg/kg wet		20.0		87	70-130		
Dibromomethane	15.5		µg/kg wet		20.0		77	70-130		
1,2-Dichlorobenzene	18.1		µg/kg wet		20.0		91	70-130		
1,3-Dichlorobenzene	18.0		µg/kg wet		20.0		90	70-130		
1,4-Dichlorobenzene	17.2		µg/kg wet		20.0		86	70-130		
Dichlorodifluoromethane (Freon12)	10.9		µg/kg wet		20.0		54	70-130		
1,1-Dichloroethane	14.7		µg/kg wet		20.0		74	70-130		
1,2-Dichloroethane	14.3		µg/kg wet		20.0		72	70-130		
1,1-Dichloroethene	14.4		µg/kg wet		20.0		72	70-130		
cis-1,2-Dichloroethene	15.7		µg/kg wet		20.0		79	70-130		
trans-1,2-Dichloroethene	15.1		µg/kg wet		20.0		75	70-130		
1,2-Dichloropropane	16.2		µg/kg wet		20.0		81	70-130		
1,3-Dichloropropane	16.4		µg/kg wet		20.0		82	70-130		
2,2-Dichloropropane	13.0	QC2	µg/kg wet		20.0		65	70-130		
1,1-Dichloropropene	14.4		µg/kg wet		20.0		72	70-130		
cis-1,3-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130		
trans-1,3-Dichloropropene	14.7		µg/kg wet		20.0		73	70-130		
Ethylbenzene	17.5		µg/kg wet		20.0		88	70-130		
Hexachlorobutadiene	15.9		µg/kg wet		20.0		80	70-130		
2-Hexanone (MBK)	13.3		µg/kg wet		20.0		66	70-130		
Isopropylbenzene	16.8		µg/kg wet		20.0		84	70-130		
4-Isopropyltoluene	17.3		µg/kg wet		20.0		87	70-130		
Methyl tert-butyl ether	17.1		µg/kg wet		20.0		86	70-130		
4-Methyl-2-pentanone (MIBK)	18.4		µg/kg wet		20.0		92	70-130		
Methylene chloride	15.6		µg/kg wet		20.0		78	70-130		
Naphthalene	15.8		µg/kg wet		20.0		79	70-130		
n-Propylbenzene	17.2		µg/kg wet		20.0		86	70-130		
Styrene	18.9		µg/kg wet		20.0		95	70-130		
1,1,1,2-Tetrachloroethane	17.0		µg/kg wet		20.0		85	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424920 - SW846 5035A Soil (low level)										
<u>LCS (1424920-BS1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2,2-Tetrachloroethane	18.4		µg/kg wet		20.0		92	70-130		
Tetrachloroethene	14.9		µg/kg wet		20.0		75	70-130		
Toluene	15.3		µg/kg wet		20.0		77	70-130		
1,2,3-Trichlorobenzene	16.9		µg/kg wet		20.0		84	70-130		
1,2,4-Trichlorobenzene	16.4		µg/kg wet		20.0		82	70-130		
1,3,5-Trichlorobenzene	19.3		µg/kg wet		20.0		97	70-130		
1,1,1-Trichloroethane	13.1	QM9	µg/kg wet		20.0		66	70-130		
1,1,2-Trichloroethane	16.4		µg/kg wet		20.0		82	70-130		
Trichloroethene	14.5		µg/kg wet		20.0		72	70-130		
Trichlorofluoromethane (Freon 11)	11.3	QC2	µg/kg wet		20.0		56	70-130		
1,2,3-Trichloropropane	17.6		µg/kg wet		20.0		88	70-130		
1,2,4-Trimethylbenzene	18.3		µg/kg wet		20.0		92	70-130		
1,3,5-Trimethylbenzene	17.4		µg/kg wet		20.0		87	70-130		
Vinyl chloride	14.4		µg/kg wet		20.0		72	70-130		
m,p-Xylene	17.8		µg/kg wet		20.0		89	70-130		
o-Xylene	18.1		µg/kg wet		20.0		90	70-130		
Tetrahydrofuran	15.4		µg/kg wet		20.0		77	70-130		
Ethyl ether	18.8		µg/kg wet		20.0		94	70-130		
Tert-amyl methyl ether	15.6		µg/kg wet		20.0		78	70-130		
Ethyl tert-butyl ether	16.7		µg/kg wet		20.0		84	70-130		
Di-isopropyl ether	16.1		µg/kg wet		20.0		80	70-130		
Tert-Butanol / butyl alcohol	166		µg/kg wet		200		83	70-130		
1,4-Dioxane	191		µg/kg wet		200		96	70-130		
trans-1,4-Dichloro-2-butene	15.3		µg/kg wet		20.0		76	70-130		
Ethanol	325		µg/kg wet		400		81	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	51.6		µg/kg wet		50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>	48.6		µg/kg wet		50.0		97	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	43.3		µg/kg wet		50.0		87	70-130		
<i>Surrogate: Dibromofluoromethane</i>	47.1		µg/kg wet		50.0		94	70-130		
<u>LCS Dup (1424920-BSD1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	13.9	QC2	µg/kg wet		20.0		69	70-130	5	30
Acetone	19.3		µg/kg wet		20.0		97	70-130	16	30
Acrylonitrile	17.3		µg/kg wet		20.0		86	70-130	3	30
Benzene	16.5		µg/kg wet		20.0		83	70-130	5	30
Bromobenzene	19.2		µg/kg wet		20.0		96	70-130	8	30
Bromochloromethane	17.4		µg/kg wet		20.0		87	70-130	4	30
Bromodichloromethane	15.7		µg/kg wet		20.0		78	70-130	5	30
Bromoform	18.4		µg/kg wet		20.0		92	70-130	6	30
Bromomethane	18.6		µg/kg wet		20.0		93	70-130	9	30
2-Butanone (MEK)	18.5		µg/kg wet		20.0		92	70-130	2	30
n-Butylbenzene	17.7		µg/kg wet		20.0		88	70-130	4	30
sec-Butylbenzene	18.3		µg/kg wet		20.0		91	70-130	8	30
tert-Butylbenzene	18.4		µg/kg wet		20.0		92	70-130	7	30
Carbon disulfide	14.4		µg/kg wet		20.0		72	70-130	6	30
Carbon tetrachloride	13.3	QC2	µg/kg wet		20.0		66	70-130	6	30
Chlorobenzene	18.6		µg/kg wet		20.0		93	70-130	7	30
Chloroethane	16.3		µg/kg wet		20.0		81	70-130	6	30
Chloroform	14.8		µg/kg wet		20.0		74	70-130	3	30
Chloromethane	14.9		µg/kg wet		20.0		75	70-130	6	30
2-Chlorotoluene	18.5		µg/kg wet		20.0		93	70-130	8	30
4-Chlorotoluene	19.1		µg/kg wet		20.0		96	70-130	7	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424920 - SW846 5035A Soil (low level)										
<u>LCS Dup (1424920-BSD1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
1,2-Dibromo-3-chloropropane	15.0		µg/kg wet		20.0		75	70-130	1	30
Dibromochloromethane	16.2		µg/kg wet		20.0		81	70-130	3	30
1,2-Dibromoethane (EDB)	17.7		µg/kg wet		20.0		88	70-130	2	30
Dibromomethane	16.1		µg/kg wet		20.0		81	70-130	4	30
1,2-Dichlorobenzene	19.0		µg/kg wet		20.0		95	70-130	5	30
1,3-Dichlorobenzene	19.4		µg/kg wet		20.0		97	70-130	8	30
1,4-Dichlorobenzene	17.9		µg/kg wet		20.0		89	70-130	4	30
Dichlorodifluoromethane (Freon12)	11.6		µg/kg wet		20.0		58	70-130	7	30
1,1-Dichloroethane	15.4		µg/kg wet		20.0		77	70-130	5	30
1,2-Dichloroethane	15.1		µg/kg wet		20.0		75	70-130	5	30
1,1-Dichloroethene	15.2		µg/kg wet		20.0		76	70-130	5	30
cis-1,2-Dichloroethene	16.6		µg/kg wet		20.0		83	70-130	6	30
trans-1,2-Dichloroethene	16.1		µg/kg wet		20.0		80	70-130	6	30
1,2-Dichloropropane	16.8		µg/kg wet		20.0		84	70-130	4	30
1,3-Dichloropropane	17.1		µg/kg wet		20.0		86	70-130	4	30
2,2-Dichloropropane	13.8	QC2	µg/kg wet		20.0		69	70-130	6	30
1,1-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130	8	30
cis-1,3-Dichloropropene	16.8		µg/kg wet		20.0		84	70-130	7	30
trans-1,3-Dichloropropene	15.6		µg/kg wet		20.0		78	70-130	6	30
Ethylbenzene	18.7		µg/kg wet		20.0		93	70-130	6	30
Hexachlorobutadiene	16.1		µg/kg wet		20.0		81	70-130	1	30
2-Hexanone (MBK)	13.4		µg/kg wet		20.0		67	70-130	1	30
Isopropylbenzene	18.6		µg/kg wet		20.0		93	70-130	10	30
4-Isopropyltoluene	18.0		µg/kg wet		20.0		90	70-130	4	30
Methyl tert-butyl ether	17.4		µg/kg wet		20.0		87	70-130	1	30
4-Methyl-2-pentanone (MIBK)	17.9		µg/kg wet		20.0		90	70-130	2	30
Methylene chloride	16.5		µg/kg wet		20.0		82	70-130	5	30
Naphthalene	16.0		µg/kg wet		20.0		80	70-130	1	30
n-Propylbenzene	18.6		µg/kg wet		20.0		93	70-130	8	30
Styrene	20.6		µg/kg wet		20.0		103	70-130	8	30
1,1,1,2-Tetrachloroethane	18.3		µg/kg wet		20.0		91	70-130	7	30
1,1,1,2,2-Tetrachloroethane	19.6		µg/kg wet		20.0		98	70-130	7	30
Tetrachloroethene	15.4		µg/kg wet		20.0		77	70-130	3	30
Toluene	16.4		µg/kg wet		20.0		82	70-130	7	30
1,2,3-Trichlorobenzene	17.4		µg/kg wet		20.0		87	70-130	3	30
1,2,4-Trichlorobenzene	16.7		µg/kg wet		20.0		84	70-130	2	30
1,3,5-Trichlorobenzene	20.1		µg/kg wet		20.0		101	70-130	4	30
1,1,1-Trichloroethane	14.1		µg/kg wet		20.0		70	70-130	7	30
1,1,2-Trichloroethane	16.8		µg/kg wet		20.0		84	70-130	2	30
Trichloroethene	15.6		µg/kg wet		20.0		78	70-130	7	30
Trichlorofluoromethane (Freon 11)	11.9	QC2	µg/kg wet		20.0		60	70-130	6	30
1,2,3-Trichloropropane	18.3		µg/kg wet		20.0		92	70-130	4	30
1,2,4-Trimethylbenzene	19.8		µg/kg wet		20.0		99	70-130	8	30
1,3,5-Trimethylbenzene	18.8		µg/kg wet		20.0		94	70-130	8	30
Vinyl chloride	15.1		µg/kg wet		20.0		75	70-130	5	30
m,p-Xylene	19.4		µg/kg wet		20.0		97	70-130	9	30
o-Xylene	19.6		µg/kg wet		20.0		98	70-130	8	30
Tetrahydrofuran	16.4		µg/kg wet		20.0		82	70-130	6	30
Ethyl ether	19.5		µg/kg wet		20.0		98	70-130	4	30
Tert-amyl methyl ether	16.0		µg/kg wet		20.0		80	70-130	3	30
Ethyl tert-butyl ether	17.4		µg/kg wet		20.0		87	70-130	4	30
Di-isopropyl ether	16.7		µg/kg wet		20.0		83	70-130	4	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424920 - SW846 5035A Soil (low level)										
<u>LCS Dup (1424920-BSD1)</u>					<u>Prepared & Analyzed: 22-Oct-14</u>					
Tert-Butanol / butyl alcohol	157		µg/kg wet		200		79	70-130	6	30
1,4-Dioxane	198		µg/kg wet		200		99	70-130	3	30
trans-1,4-Dichloro-2-butene	17.2		µg/kg wet		20.0		86	70-130	12	30
Ethanol	352		µg/kg wet		400		88	70-130	8	30
Surrogate: 4-Bromofluorobenzene	52.1		µg/kg wet		50.0		104	70-130		
Surrogate: Toluene-d8	48.7		µg/kg wet		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	43.1		µg/kg wet		50.0		86	70-130		
Surrogate: Dibromofluoromethane	46.7		µg/kg wet		50.0		93	70-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424662 - SW846 3510C										
<u>Blank (1424662-BLK1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 24-Oct-14</u>					
Acenaphthene	< 1.06	U	µg/l	1.06						
Acenaphthylene	< 0.872	U	µg/l	0.872						
Anthracene	< 1.05	U	µg/l	1.05						
Benzo (a) anthracene	< 1.19	U	µg/l	1.19						
Benzo (a) pyrene	< 0.876	U	µg/l	0.876						
Benzo (b) fluoranthene	< 0.853	U	µg/l	0.853						
Benzo (g,h,i) perylene	< 1.49	U	µg/l	1.49						
Benzo (k) fluoranthene	< 1.12	U	µg/l	1.12						
Chrysene	< 1.14	U	µg/l	1.14						
Dibenzo (a,h) anthracene	< 1.54	U	µg/l	1.54						
Fluoranthene	< 1.17	U	µg/l	1.17						
Fluorene	< 1.25	U	µg/l	1.25						
Indeno (1,2,3-cd) pyrene	< 1.74	U	µg/l	1.74						
1-Methylnaphthalene	< 0.939	U	µg/l	0.939						
2-Methylnaphthalene	< 1.16	U	µg/l	1.16						
Naphthalene	< 0.906	U	µg/l	0.906						
Phenanthrene	< 0.915	U	µg/l	0.915						
Pyrene	< 2.69	U	µg/l	2.69						
<i>Surrogate: 2-Fluorobiphenyl</i>	23.4		µg/l		50.0		47	30-130		
<i>Surrogate: Terphenyl-dl4</i>	38.1		µg/l		50.0		76	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	31.8		µg/l		50.0		64	30-130		
<u>LCS (1424662-BS1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 24-Oct-14</u>					
Acenaphthene	35.8		µg/l	1.06	50.0		72	40-140		
Acenaphthylene	37.8		µg/l	0.872	50.0		76	40-140		
Anthracene	41.6		µg/l	1.05	50.0		83	40-140		
Benzo (a) anthracene	41.4		µg/l	1.19	50.0		83	40-140		
Benzo (a) pyrene	44.5		µg/l	0.876	50.0		89	40-140		
Benzo (b) fluoranthene	44.0		µg/l	0.853	50.0		88	40-140		
Benzo (g,h,i) perylene	42.8		µg/l	1.49	50.0		86	40-140		
Benzo (k) fluoranthene	41.4		µg/l	1.12	50.0		83	40-140		
Chrysene	39.5		µg/l	1.14	50.0		79	40-140		
Dibenzo (a,h) anthracene	45.3		µg/l	1.54	50.0		91	40-140		
Fluoranthene	42.4		µg/l	1.17	50.0		85	40-140		
Fluorene	38.0		µg/l	1.25	50.0		76	40-140		
Indeno (1,2,3-cd) pyrene	50.2		µg/l	1.74	50.0		100	40-140		
1-Methylnaphthalene	35.3		µg/l	0.939	50.0		71	40-140		
2-Methylnaphthalene	37.1		µg/l	1.16	50.0		74	40-140		
Naphthalene	36.0		µg/l	0.906	50.0		72	40-140		
Phenanthrene	41.5		µg/l	0.915	50.0		83	40-140		
Pyrene	42.0		µg/l	2.69	50.0		84	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	29.4		µg/l		50.0		59	30-130		
<i>Surrogate: Terphenyl-dl4</i>	37.8		µg/l		50.0		76	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	43.1		µg/l		50.0		86	30-130		
<u>LCS Dup (1424662-BSD1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 24-Oct-14</u>					
Acenaphthene	34.4		µg/l	1.06	50.0		69	40-140	4	20
Acenaphthylene	35.2		µg/l	0.872	50.0		70	40-140	7	20
Anthracene	39.7		µg/l	1.05	50.0		79	40-140	5	20
Benzo (a) anthracene	40.4		µg/l	1.19	50.0		81	40-140	2	20
Benzo (a) pyrene	43.3		µg/l	0.876	50.0		87	40-140	3	20
Benzo (b) fluoranthene	39.7		µg/l	0.853	50.0		79	40-140	10	20
Benzo (g,h,i) perylene	40.7		µg/l	1.49	50.0		81	40-140	5	20

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424662 - SW846 3510C										
<u>LCS Dup (1424662-BSD1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 24-Oct-14</u>					
Benzo (k) fluoranthene	39.6		µg/l	1.12	50.0		79	40-140	5	20
Chrysene	38.3		µg/l	1.14	50.0		77	40-140	3	20
Dibenzo (a,h) anthracene	43.8		µg/l	1.54	50.0		88	40-140	4	20
Fluoranthene	40.1		µg/l	1.17	50.0		80	40-140	6	20
Fluorene	36.2		µg/l	1.25	50.0		72	40-140	5	20
Indeno (1,2,3-cd) pyrene	47.8		µg/l	1.74	50.0		96	40-140	5	20
1-Methylnaphthalene	33.8		µg/l	0.939	50.0		68	40-140	4	20
2-Methylnaphthalene	37.0		µg/l	1.16	50.0		74	40-140	0.2	20
Naphthalene	35.6		µg/l	0.906	50.0		71	40-140	1	20
Phenanthrene	39.5		µg/l	0.915	50.0		79	40-140	5	20
Pyrene	40.0		µg/l	2.69	50.0		80	40-140	5	20
Surrogate: 2-Fluorobiphenyl	28.5		µg/l		50.0		57	30-130		
Surrogate: Terphenyl-d14	37.9		µg/l		50.0		76	30-130		
Surrogate: Nitrobenzene-d5	43.4		µg/l		50.0		87	30-130		
Batch 1424663 - SW846 3545A										
<u>Blank (1424663-BLK1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 22-Oct-14</u>					
Acenaphthene	< 35.3	U	µg/kg wet	35.3						
Acenaphthylene	< 36.6	U	µg/kg wet	36.6						
Anthracene	< 33.5	U	µg/kg wet	33.5						
Benzo (a) anthracene	< 53.6	U	µg/kg wet	53.6						
Benzo (a) pyrene	< 29.0	U	µg/kg wet	29.0						
Benzo (b) fluoranthene	< 26.8	U	µg/kg wet	26.8						
Benzo (g,h,i) perylene	< 36.1	U	µg/kg wet	36.1						
Benzo (k) fluoranthene	< 41.4	U	µg/kg wet	41.4						
Chrysene	< 48.6	U	µg/kg wet	48.6						
Dibenzo (a,h) anthracene	< 34.8	U	µg/kg wet	34.8						
Fluoranthene	< 32.8	U	µg/kg wet	32.8						
Fluorene	< 35.6	U	µg/kg wet	35.6						
Indeno (1,2,3-cd) pyrene	< 35.5	U	µg/kg wet	35.5						
1-Methylnaphthalene	< 35.2	U	µg/kg wet	35.2						
2-Methylnaphthalene	< 35.3	U	µg/kg wet	35.3						
Naphthalene	< 36.6	U	µg/kg wet	36.6						
Phenanthrene	< 34.8	U	µg/kg wet	34.8						
Pyrene	< 49.6	U	µg/kg wet	49.6						
Surrogate: 2-Fluorobiphenyl	1130		µg/kg wet		1660		68	30-130		
Surrogate: Terphenyl-d14	1290		µg/kg wet		1660		78	30-130		
Surrogate: Nitrobenzene-d5	1460		µg/kg wet		1660		88	30-130		
<u>LCS (1424663-BS1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 22-Oct-14</u>					
Acenaphthene	1340		µg/kg wet	35.4	1660		81	40-140		
Acenaphthylene	1390		µg/kg wet	36.7	1660		84	40-140		
Anthracene	1490		µg/kg wet	33.6	1660		90	40-140		
Benzo (a) anthracene	1470		µg/kg wet	53.7	1660		89	40-140		
Benzo (a) pyrene	1550		µg/kg wet	29.0	1660		94	40-140		
Benzo (b) fluoranthene	1560		µg/kg wet	26.9	1660		94	40-140		
Benzo (g,h,i) perylene	1530		µg/kg wet	36.1	1660		92	40-140		
Benzo (k) fluoranthene	1430		µg/kg wet	41.4	1660		86	40-140		
Chrysene	1390		µg/kg wet	48.7	1660		84	40-140		
Dibenzo (a,h) anthracene	1600		µg/kg wet	34.9	1660		97	40-140		
Fluoranthene	1500		µg/kg wet	32.9	1660		90	40-140		
Fluorene	1380		µg/kg wet	35.7	1660		83	40-140		
Indeno (1,2,3-cd) pyrene	1780		µg/kg wet	35.5	1660		107	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424663 - SW846 3545A										
<u>LCS (1424663-BS1)</u>					<u>Prepared: 20-Oct-14 Analyzed: 22-Oct-14</u>					
1-Methylnaphthalene	1310		µg/kg wet	35.3	1660		79	40-140		
2-Methylnaphthalene	1540		µg/kg wet	35.3	1660		93	40-140		
Naphthalene	1380		µg/kg wet	36.7	1660		83	40-140		
Phenanthrene	1470		µg/kg wet	34.9	1660		89	40-140		
Pyrene	1440		µg/kg wet	49.7	1660		87	40-140		
Surrogate: 2-Fluorobiphenyl	1360		µg/kg wet		1660		82	30-130		
Surrogate: Terphenyl-dl4	1460		µg/kg wet		1660		88	30-130		
Surrogate: Nitrobenzene-d5	1690		µg/kg wet		1660		102	30-130		
<u>Duplicate (1424663-DUP1)</u>					<u>Source: SB98283-03</u>		<u>Prepared: 20-Oct-14 Analyzed: 25-Oct-14</u>			
Acenaphthene	< 39.9	U	µg/kg dry	39.9		BRL				30
Acenaphthylene	< 41.4	U	µg/kg dry	41.4		BRL				30
Anthracene	< 37.9	U	µg/kg dry	37.9		BRL				30
Benzo (a) anthracene	< 60.6	U	µg/kg dry	60.6		BRL				30
Benzo (a) pyrene	< 32.8	U	µg/kg dry	32.8		BRL				30
Benzo (b) fluoranthene	< 30.3	U	µg/kg dry	30.3		BRL				30
Benzo (g,h,i) perylene	< 40.8	U	µg/kg dry	40.8		BRL				30
Benzo (k) fluoranthene	< 46.7	U	µg/kg dry	46.7		BRL				30
Chrysene	< 54.9	U	µg/kg dry	54.9		BRL				30
Dibenzo (a,h) anthracene	< 39.3	U	µg/kg dry	39.3		BRL				30
Fluoranthene	< 37.1	U	µg/kg dry	37.1		BRL				30
Fluorene	< 40.2	U	µg/kg dry	40.2		BRL				30
Indeno (1,2,3-cd) pyrene	< 40.1	U	µg/kg dry	40.1		BRL				30
1-Methylnaphthalene	< 39.8	U	µg/kg dry	39.8		BRL				30
2-Methylnaphthalene	< 39.8	U	µg/kg dry	39.8		BRL				30
Naphthalene	< 41.4	U	µg/kg dry	41.4		BRL				30
Phenanthrene	< 39.4	U	µg/kg dry	39.4		BRL				30
Pyrene	< 56.0	U	µg/kg dry	56.0		BRL				30
Surrogate: 2-Fluorobiphenyl	1280		µg/kg dry		1870		68	30-130		
Surrogate: Terphenyl-dl4	1430		µg/kg dry		1870		77	30-130		
Surrogate: Nitrobenzene-d5	1780		µg/kg dry		1870		95	30-130		
<u>Matrix Spike (1424663-MS1)</u>					<u>Source: SB98283-03</u>		<u>Prepared: 20-Oct-14 Analyzed: 25-Oct-14</u>			
Acenaphthene	1280		µg/kg dry	39.9	1870	BRL	68	40-140		
Acenaphthylene	1350		µg/kg dry	41.3	1870	BRL	72	40-140		
Anthracene	1400		µg/kg dry	37.9	1870	BRL	75	40-140		
Benzo (a) anthracene	1330		µg/kg dry	60.6	1870	BRL	71	40-140		
Benzo (a) pyrene	1380		µg/kg dry	32.8	1870	BRL	74	40-140		
Benzo (b) fluoranthene	1350		µg/kg dry	30.3	1870	BRL	72	40-140		
Benzo (g,h,i) perylene	1030		µg/kg dry	40.8	1870	BRL	55	40-140		
Benzo (k) fluoranthene	1420		µg/kg dry	46.7	1870	BRL	76	40-140		
Chrysene	1290		µg/kg dry	54.9	1870	BRL	69	40-140		
Dibenzo (a,h) anthracene	1240		µg/kg dry	39.3	1870	BRL	66	40-140		
Fluoranthene	1380		µg/kg dry	37.1	1870	BRL	74	40-140		
Fluorene	1320		µg/kg dry	40.2	1870	BRL	71	40-140		
Indeno (1,2,3-cd) pyrene	1260		µg/kg dry	40.1	1870	BRL	67	40-140		
1-Methylnaphthalene	1330		µg/kg dry	39.8	1870	BRL	71	40-140		
2-Methylnaphthalene	1460		µg/kg dry	39.8	1870	BRL	78	40-140		
Naphthalene	1380		µg/kg dry	41.4	1870	BRL	74	40-140		
Phenanthrene	1400		µg/kg dry	39.3	1870	BRL	75	40-140		
Pyrene	1400		µg/kg dry	56.0	1870	BRL	75	40-140		
Surrogate: 2-Fluorobiphenyl	1280		µg/kg dry		1870		68	30-130		
Surrogate: Terphenyl-dl4	1380		µg/kg dry		1870		74	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424663 - SW846 3545A										
<u>Matrix Spike (1424663-MS1)</u>			<u>Source: SB98283-03</u>			<u>Prepared: 20-Oct-14 Analyzed: 25-Oct-14</u>				
<i>Surrogate: Nitrobenzene-d5</i>	1730		µg/kg dry		1870		92	30-130		
<u>Matrix Spike Dup (1424663-MSD1)</u>			<u>Source: SB98283-03</u>			<u>Prepared: 20-Oct-14 Analyzed: 25-Oct-14</u>				
Acenaphthene	1140		µg/kg dry	39.8	1870	BRL	61	40-140	11	30
Acenaphthylene	1240		µg/kg dry	41.3	1870	BRL	66	40-140	9	30
Anthracene	1300		µg/kg dry	37.8	1870	BRL	70	40-140	7	30
Benzo (a) anthracene	1220		µg/kg dry	60.5	1870	BRL	65	40-140	9	30
Benzo (a) pyrene	1290		µg/kg dry	32.7	1870	BRL	69	40-140	7	30
Benzo (b) fluoranthene	1280		µg/kg dry	30.3	1870	BRL	68	40-140	6	30
Benzo (g,h,i) perylene	955		µg/kg dry	40.7	1870	BRL	51	40-140	7	30
Benzo (k) fluoranthene	1310		µg/kg dry	46.7	1870	BRL	70	40-140	8	30
Chrysene	1180		µg/kg dry	54.8	1870	BRL	63	40-140	9	30
Dibenzo (a,h) anthracene	1110		µg/kg dry	39.3	1870	BRL	60	40-140	10	30
Fluoranthene	1270		µg/kg dry	37.1	1870	BRL	68	40-140	8	30
Fluorene	1190		µg/kg dry	40.2	1870	BRL	64	40-140	10	30
Indeno (1,2,3-cd) pyrene	1120		µg/kg dry	40.0	1870	BRL	60	40-140	12	30
1-Methylnaphthalene	1220		µg/kg dry	39.7	1870	BRL	65	40-140	9	30
2-Methylnaphthalene	1350		µg/kg dry	39.8	1870	BRL	72	40-140	8	30
Naphthalene	1260		µg/kg dry	41.3	1870	BRL	67	40-140	9	30
Phenanthrene	1300		µg/kg dry	39.3	1870	BRL	70	40-140	7	30
Pyrene	1290		µg/kg dry	55.9	1870	BRL	69	40-140	8	30
<i>Surrogate: 2-Fluorobiphenyl</i>	1160		µg/kg dry		1870		62	30-130		
<i>Surrogate: Terphenyl-dl4</i>	1270		µg/kg dry		1870		68	30-130		
<i>Surrogate: Nitrobenzene-d5</i>	1600		µg/kg dry		1870		86	30-130		

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

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424984 - SW846 3050B										
<u>Blank (1424984-BLK1)</u>					<u>Prepared: 23-Oct-14 Analyzed: 27-Oct-14</u>					
Lead	< 0.675	U	mg/kg wet	0.675						
Silver	< 0.139	U	mg/kg wet	0.139						
Arsenic	< 0.515	U	mg/kg wet	0.515						
Chromium	< 0.176	U	mg/kg wet	0.176						
Selenium	< 0.686	U	mg/kg wet	0.686						
Cadmium	< 0.0650	U	mg/kg wet	0.0650						
Barium	< 0.177	U	mg/kg wet	0.177						
<u>Duplicate (1424984-DUP1)</u>					<u>Source: SB98283-17 Prepared: 23-Oct-14 Analyzed: 25-Oct-14</u>					
Arsenic	16.1		mg/kg dry	0.553		16.6			3	20
Cadmium	0.318	J	mg/kg dry	0.0698		0.319			0.4	20
Selenium	0.958	J	mg/kg dry	0.736		0.879			9	20
Silver	< 0.149	U	mg/kg dry	0.149		BRL				20
Chromium	20.9		mg/kg dry	0.189		21.2			2	20
Lead	14.2		mg/kg dry	0.725		13.2			7	20
Barium	52.4	QR6	mg/kg dry	0.190		73.9			34	20
<u>Matrix Spike (1424984-MS1)</u>					<u>Source: SB98283-17 Prepared: 23-Oct-14 Analyzed: 27-Oct-14</u>					
Lead	110		mg/kg dry	0.720	129	13.2	75	75-125		
Cadmium	99.4		mg/kg dry	0.0693	129	0.319	77	75-125		
Arsenic	123		mg/kg dry	0.549	129	16.6	83	75-125		
Selenium	104		mg/kg dry	0.731	129	0.879	80	75-125		
Chromium	134		mg/kg dry	0.187	129	21.2	88	75-125		
Silver	106		mg/kg dry	0.148	129	BRL	82	75-125		
Barium	185		mg/kg dry	0.188	129	73.9	86	75-125		
<u>Matrix Spike Dup (1424984-MSD1)</u>					<u>Source: SB98283-17 Prepared: 23-Oct-14 Analyzed: 25-Oct-14</u>					
Selenium	104		mg/kg dry	0.732	129	0.879	80	75-125	0.4	20
Chromium	137		mg/kg dry	0.187	129	21.2	90	75-125	2	20
Lead	109	QM7	mg/kg dry	0.721	129	13.2	74	75-125	1	20
Silver	97.2		mg/kg dry	0.148	129	BRL	75	75-125	8	20
Cadmium	99.2		mg/kg dry	0.0694	129	0.319	76	75-125	0.2	20
Arsenic	123		mg/kg dry	0.550	129	16.6	83	75-125	0.06	20
Barium	198		mg/kg dry	0.188	129	73.9	96	75-125	7	20
<u>Post Spike (1424984-PS1)</u>					<u>Source: SB98283-17 Prepared: 23-Oct-14 Analyzed: 25-Oct-14</u>					
Chromium	132		mg/kg dry	0.187	129	21.2	86	80-120		
Arsenic	123		mg/kg dry	0.549	129	16.6	83	80-120		
Selenium	107		mg/kg dry	0.731	129	0.879	82	80-120		
Barium	180		mg/kg dry	0.188	129	73.9	82	80-120		
<u>Reference (1424984-SRM1)</u>					<u>Prepared: 23-Oct-14 Analyzed: 25-Oct-14</u>					
Selenium	71.5		mg/kg wet	0.707	81.8		87	77.16-122 .22		
Silver	19.1		mg/kg wet	0.143	22.4		86	74.49-125 .5		
Arsenic	66.4		mg/kg wet	0.531	76.3		87	80.79-119 .86		
Chromium	58.4		mg/kg wet	0.181	59.1		99	79.4-120. 51		
Lead	109		mg/kg wet	0.696	128		85	81.49-118 .5		
Cadmium	67.4		mg/kg wet	0.0670	76.8		88	81.57-117 .76		
Barium	134		mg/kg wet	0.182	132		101	82.82-117 .17		
<u>Reference (1424984-SRM2)</u>					<u>Prepared: 23-Oct-14 Analyzed: 25-Oct-14</u>					

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

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424984 - SW846 3050B										
<u>Reference (1424984-SRM2)</u>					Prepared: 23-Oct-14 Analyzed: 25-Oct-14					
Arsenic	69.4		mg/kg wet	0.531	77.2		90	80.79-119.86		
Chromium	61.2		mg/kg wet	0.181	59.8		102	79.4-120.51		
Silver	20.3		mg/kg wet	0.143	22.7		90	74.49-125.5		
Cadmium	72.6		mg/kg wet	0.0670	77.7		93	81.57-117.76		
Lead	114		mg/kg wet	0.696	130		88	81.49-118.5		
Selenium	76.8		mg/kg wet	0.707	82.8		93	77.16-122.22		
Barium	138		mg/kg wet	0.182	134		103	82.82-117.17		
Batch 1424985 - EPA200/SW7000 Series										
<u>Blank (1424985-BLK1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	< 0.0028	U	mg/kg wet	0.0028						
<u>Duplicate (1424985-DUP1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	0.0226	QR8, J	mg/kg dry	0.0030		0.0167			30	20
<u>Matrix Spike (1424985-MS1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	0.274		mg/kg dry	0.0030	0.212	0.0167	121	75-125		
<u>Matrix Spike Dup (1424985-MSD1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	0.264		mg/kg dry	0.0030	0.211	0.0167	117	75-125	4	20
<u>Post Spike (1424985-PS1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	0.234		mg/kg dry	0.0030	0.213	0.0167	102	80-120		
<u>Reference (1424985-SRM1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Mercury	2.17	D	mg/kg wet	0.0590	2.04		107	71.18-128.64		
Batch 1425003 - SW846 3005A										
<u>Blank (1425003-BLK1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Silver	< 0.0022	U	mg/l	0.0022						
Lead	< 0.0065	U	mg/l	0.0065						
Selenium	< 0.0134	U	mg/l	0.0134						
Chromium	< 0.0027	U	mg/l	0.0027						
Cadmium	< 0.0024	U	mg/l	0.0024						
Barium	< 0.0015	U	mg/l	0.0015						
Arsenic	< 0.0038	U	mg/l	0.0038						
<u>LCS (1425003-BS1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Selenium	2.67		mg/l	0.0134	2.50		107	85-115		
Lead	2.64		mg/l	0.0065	2.50		106	85-115		
Chromium	2.66		mg/l	0.0027	2.50		106	85-115		
Cadmium	2.80		mg/l	0.0024	2.50		112	85-115		
Barium	2.68		mg/l	0.0015	2.50		107	85-115		
Arsenic	2.61		mg/l	0.0038	2.50		104	85-115		
Silver	2.60		mg/l	0.0022	2.50		104	85-115		
<u>LCS Dup (1425003-BSD1)</u>					Prepared: 23-Oct-14 Analyzed: 24-Oct-14					
Selenium	2.56		mg/l	0.0134	2.50		103	85-115	4	20
Lead	2.52		mg/l	0.0065	2.50		101	85-115	5	20
Chromium	2.59		mg/l	0.0027	2.50		104	85-115	3	20
Cadmium	2.66		mg/l	0.0024	2.50		106	85-115	5	20
Barium	2.64		mg/l	0.0015	2.50		105	85-115	2	20
Silver	2.53		mg/l	0.0022	2.50		101	85-115	3	20
Arsenic	2.48		mg/l	0.0038	2.50		99	85-115	5	20

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

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1425003 - SW846 3005A										
<u>Duplicate (1425003-DUP1)</u>			<u>Source: SB98283-13</u>			<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>				
Chromium	0.0730		mg/l	0.0027		0.0768			5	20
Selenium	< 0.0134	U	mg/l	0.0134		BRL				20
Arsenic	0.0215		mg/l	0.0038		0.0219			2	20
Cadmium	< 0.0024	U	mg/l	0.0024		BRL				20
Lead	0.0433		mg/l	0.0065		0.0454			5	20
Silver	< 0.0022	U	mg/l	0.0022		BRL				20
Barium	1.82		mg/l	0.0015		1.90			5	20
<u>Matrix Spike (1425003-MS1)</u>			<u>Source: SB98283-13</u>			<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>				
Silver	2.43		mg/l	0.0022	2.50	BRL	97	75-125		
Cadmium	2.28		mg/l	0.0024	2.50	BRL	91	75-125		
Selenium	2.30		mg/l	0.0134	2.50	BRL	92	75-125		
Barium	4.27		mg/l	0.0015	2.50	1.90	95	75-125		
Arsenic	2.33		mg/l	0.0038	2.50	0.0219	92	75-125		
Chromium	2.34		mg/l	0.0027	2.50	0.0768	90	75-125		
Lead	2.22		mg/l	0.0065	2.50	0.0454	87	75-125		
<u>Matrix Spike Dup (1425003-MSD1)</u>			<u>Source: SB98283-13</u>			<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>				
Barium	4.32		mg/l	0.0015	2.50	1.90	97	75-125	1	20
Silver	2.42		mg/l	0.0022	2.50	BRL	97	75-125	0.8	20
Arsenic	2.38		mg/l	0.0038	2.50	0.0219	94	75-125	2	20
Chromium	2.33		mg/l	0.0027	2.50	0.0768	90	75-125	0.2	20
Cadmium	2.27		mg/l	0.0024	2.50	BRL	91	75-125	0.1	20
Lead	2.26		mg/l	0.0065	2.50	0.0454	89	75-125	2	20
Selenium	2.35		mg/l	0.0134	2.50	BRL	94	75-125	2	20
<u>Post Spike (1425003-PS1)</u>			<u>Source: SB98283-13</u>			<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>				
Lead	2.44		mg/l	0.0065	2.50	0.0454	96	80-120		
Silver	2.63		mg/l	0.0022	2.50	BRL	105	80-120		
Barium	4.55		mg/l	0.0015	2.50	1.90	106	80-120		
Selenium	2.53		mg/l	0.0134	2.50	BRL	101	80-120		
Arsenic	2.55		mg/l	0.0038	2.50	0.0219	101	80-120		
Chromium	2.50		mg/l	0.0027	2.50	0.0768	97	80-120		
Cadmium	2.48		mg/l	0.0024	2.50	BRL	99	80-120		

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Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1425004 - EPA200/SW7000 Series										
<u>Blank (1425004-BLK1)</u>					<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	< 0.00008	U	mg/l	0.00008						
<u>LCS (1425004-BS1)</u>					<u>Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	0.00468		mg/l	0.00008	0.00500		94	85-115		
<u>Duplicate (1425004-DUP1)</u>					<u>Source: SB98283-13 Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	< 0.00008	U	mg/l	0.00008		BRL				20
<u>Matrix Spike (1425004-MS1)</u>					<u>Source: SB98283-13 Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	0.00569		mg/l	0.00008	0.00500	BRL	114	80-120		
<u>Matrix Spike Dup (1425004-MSD1)</u>					<u>Source: SB98283-13 Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	0.00540		mg/l	0.00008	0.00500	BRL	108	80-120	5	20
<u>Post Spike (1425004-PS1)</u>					<u>Source: SB98283-13 Prepared: 23-Oct-14 Analyzed: 24-Oct-14</u>					
Mercury	0.00564		mg/l	0.00008	0.00500	BRL	113	85-115		

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TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424771 - SW846 3010A										
<u>Blank (1424771-BLK1)</u>					<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Arsenic	< 0.0039	U	mg/l	0.0039						
Cadmium	< 0.0008	U	mg/l	0.0008						
Chromium	< 0.0041	U	mg/l	0.0041						
Silver	< 0.0016	U	mg/l	0.0016						
Selenium	< 0.0121	U	mg/l	0.0121						
Lead	< 0.0052	U	mg/l	0.0052						
Barium	0.0093	J	mg/l	0.0023						
<u>LCS (1424771-BS1)</u>					<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Lead	2.44		mg/l	0.0052	2.50		98	85-115		
Chromium	2.66		mg/l	0.0041	2.50		106	85-115		
Cadmium	2.61		mg/l	0.0008	2.50		105	85-115		
Arsenic	2.74		mg/l	0.0039	2.50		110	85-115		
Silver	2.34		mg/l	0.0016	2.50		94	85-115		
Selenium	2.77		mg/l	0.0121	2.50		111	85-115		
Barium	2.74		mg/l	0.0023	2.50		110	85-115		
<u>LCS Dup (1424771-BSD1)</u>					<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Chromium	2.68		mg/l	0.0041	2.50		107	85-115	1	20
Silver	2.68		mg/l	0.0016	2.50		107	85-115	13	104
Arsenic	2.74		mg/l	0.0039	2.50		110	85-115	0.04	20
Lead	2.43		mg/l	0.0052	2.50		97	85-115	0.6	20
Cadmium	2.61		mg/l	0.0008	2.50		104	85-115	0.1	20
Selenium	2.80		mg/l	0.0121	2.50		112	85-115	0.9	20
Barium	2.99	QM9	mg/l	0.0023	2.50		119	85-115	9	20
<u>Duplicate (1424771-DUP1)</u>					<u>Source: SB98283-22 Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Selenium	0.0305	QR8, R06, J	mg/l	0.0121		0.0222			31	20
Lead	< 0.0052	U	mg/l	0.0052		BRL				20
Chromium	0.0054	J	mg/l	0.0041		0.0059			9	20
Cadmium	< 0.0008	U	mg/l	0.0008		BRL				20
Arsenic	0.0059	QR8, J	mg/l	0.0039		0.0045			27	20
Silver	< 0.0016	U	mg/l	0.0016		BRL				20
Barium	3.24		mg/l	0.0023		3.15			3	20
<u>Matrix Spike (1424771-MS1)</u>					<u>Source: SB98283-22 Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Silver	2.68		mg/l	0.0016	2.50	BRL	107	75-125		
Cadmium	2.54		mg/l	0.0008	2.50	BRL	102	75-125		
Arsenic	2.72		mg/l	0.0039	2.50	0.0045	109	75-125		
Chromium	2.62		mg/l	0.0041	2.50	0.0059	105	75-125		
Lead	2.39		mg/l	0.0052	2.50	BRL	95	75-125		
Selenium	2.79		mg/l	0.0121	2.50	0.0222	111	75-125		
Barium	5.98		mg/l	0.0023	2.50	3.15	113	75-125		
<u>Matrix Spike Dup (1424771-MSD1)</u>					<u>Source: SB98283-22 Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Silver	2.70		mg/l	0.0016	2.50	BRL	108	75-125	0.4	20
Selenium	2.73		mg/l	0.0121	2.50	0.0222	108	75-125	2	20
Lead	2.38		mg/l	0.0052	2.50	BRL	95	75-125	0.3	20
Chromium	2.61		mg/l	0.0041	2.50	0.0059	104	75-125	0.3	20
Cadmium	2.53		mg/l	0.0008	2.50	BRL	101	75-125	0.4	20
Arsenic	2.71		mg/l	0.0039	2.50	0.0045	108	75-125	0.3	20
Barium	5.73		mg/l	0.0023	2.50	3.15	103	75-125	4	20
<u>Post Spike (1424771-PS1)</u>					<u>Source: SB98283-22 Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Arsenic	2.57		mg/l	0.0039	2.50	0.0045	103	80-120		
Chromium	2.66		mg/l	0.0041	2.50	0.0059	106	80-120		

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

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1424771 - SW846 3010A										
<u>Post Spike (1424771-PS1)</u>			<u>Source: SB98283-22</u>		<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Silver	2.68		mg/l	0.0016	2.50	BRL	107	80-120		
Selenium	2.69		mg/l	0.0121	2.50	0.0222	107	80-120		
Lead	2.24		mg/l	0.0052	2.50	BRL	90	80-120		
Cadmium	2.41		mg/l	0.0008	2.50	BRL	97	80-120		
Batch 1424773 - EPA200/SW7000 Series										
<u>Blank (1424773-BLK1)</u>					<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	< 0.00008	U	mg/l	0.00008						
<u>LCS (1424773-BS1)</u>					<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	0.00431		mg/l	0.00008	0.00500		86	85-115		
<u>Duplicate (1424773-DUP1)</u>			<u>Source: SB98283-22</u>		<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	< 0.00008	U	mg/l	0.00008		BRL				20
<u>Matrix Spike (1424773-MS1)</u>			<u>Source: SB98283-22</u>		<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	0.00455		mg/l	0.00008	0.00500	BRL	91	75-125		
<u>Matrix Spike Dup (1424773-MSD1)</u>			<u>Source: SB98283-22</u>		<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	0.00434		mg/l	0.00008	0.00500	BRL	87	75-125	5	20
<u>Post Spike (1424773-PS1)</u>			<u>Source: SB98283-22</u>		<u>Prepared: 21-Oct-14 Analyzed: 22-Oct-14</u>					
Mercury	0.00418		mg/l	0.00008	0.00500	BRL	84	80-120		

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

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

SB98283-01	<i>SB-2 (10-11)</i>	10/20/2014 1:25 PM
SB98283-02	<i>SB-3 (8-10)</i>	10/20/2014 1:25 PM
SB98283-03	<i>SB-4 (7-8)</i>	10/20/2014 1:25 PM
SB98283-04	<i>SB-5 (12-13)</i>	10/20/2014 1:25 PM
SB98283-05	<i>SB-11 (5-6)</i>	10/20/2014 1:25 PM
SB98283-06	<i>SB-13 (5-6)</i>	10/20/2014 1:25 PM
SB98283-07	<i>SB-14 (8-10)</i>	10/20/2014 1:25 PM
SB98283-08	<i>SB-16 (8-9)</i>	10/20/2014 1:25 PM
SB98283-09	<i>SB-20 (10-11)</i>	10/20/2014 1:25 PM
SB98283-10	<i>SB-22 (10-11)</i>	10/20/2014 1:25 PM
SB98283-17	<i>SB-23 (14-15)</i>	10/20/2014 1:25 PM
SB98283-18	<i>SB-26 (6-8)</i>	10/20/2014 1:25 PM
SB98283-19	<i>SB-28 (8-9)</i>	10/20/2014 1:25 PM
SB98283-20	<i>SB-31 (12-13)</i>	10/20/2014 1:25 PM
SB98283-21	<i>SB-33 (6-8)</i>	10/20/2014 1:25 PM

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
JL	Estimated Concentration is potentially biased low (per NYSDEC).
O01	This compound is a common laboratory contaminant.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
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.
R06	MRL raised to correlate to batch QC reporting limits.
S04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
U	Analyte included in the analysis, but not detected at or above the MDL.
UJL	Non-detect is potentially biased low (per NYSDEC).
Z-2	Due to insufficient sample volume, sample cannot be re-extracted.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
LIV	The initial volume for this sample has been reduced due to sample matrix and/or historical data therefore elevating the reporting limit.

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.

Validated by:
June O'Connor
Nicole Leja



SPECTRUM ANALYTICAL, INC.
Federal
HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 3

SB98285 mpany

Special Handling:

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: 5 Day
 All TAT's subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: MARK WRIGHT
HQP Assoc 1415
1 Park Blvd Ste 301E 100
Clifton Park, NY
 Telephone #: 518 477 7101
 Project Mgr: CALVIN LOUG

Invoice To: SOMC
 P.O. No.: _____
 Quote/RON: _____

Project No: NEW7442.P2
 Site Name: Montpelier
 Location: Bever dams
 Sampler(s): M. WRIGHT
 State: NY

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
SB98285-01	SB-2 (10-11)	10.11.14	922	G	SO
	SB-3 (8-10)	10.11.14	1001	G	SO
	SB-4 (7-8)	10.14.14	1030	G	SO
	SB-5 (12-13)	10.14.14	1129	G	SO
	SB-11 (5-6)	10.15.14	820	G	SO
	SB-13 (5-6)	10.15.14	923	G	SO
	SB-14 (8-10)	10.15.14	1016	G	SO
	SB-16 (8-9)	10.15.14	1110	G	SO
	SB-20 (10-11)	10.15.14	1400	G	SO
	SB-22 (10-11)	10.15.14	1520	G	SO

Relinquished by: [Signature]

Received by: [Signature]

Date: 10.17.14 Time: 1600

Temp °C: 09

EDD format: HQP + NYSD E

Condition upon receipt: Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

Condition of Custody Seals: Present Intact Broken



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

SP08285.many

Special Handling:

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: 5/14/14
 All TAT's subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: MARK WRIGHT
HQP ASSOCIATES

Invoice To: _____
SMC

Project No.: NEW 7442.P2
 Site Name: MONSTER
 Location: Beter Dams NV State: _____
 Sampler(s): M. Wright

Telephone #: 518 877 7101
 Project Mgr: _____

P.O. No.: _____
 Quote/RON: _____

QA/QC Reporting Notes:
 * additional changes may apply

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SI=Sludge A=Indoor/Ambient Air SG=Soil Gas
 X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Containers

Analysis

List Preservative Code below:

2 - 14

Check if chlorinated
 MA DEP MCP CAM Report? Yes No
 CT DPH RCP Report? Yes No
 Standard No QC
 DQA* ASP B*
 ASP A* NJ Full*
 NJ Reduced* Tier IV*
 Tier II*
 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	Check if chlorinated
SP08285-11	SB-2A	10/14/14	12:00	SW	GW	3	1	1	1		VOCs 8200 STARS SUCCS 8RCRA Metals	<input type="checkbox"/>
12	SB-20	10/15/14	14:05	SW	GW	3	1	1	1			<input type="checkbox"/>
13	SB-6	10/14/14	13:15	SW	GW	3	1	1	1			<input type="checkbox"/>
14	SB-11	10/14/14	10:00	SW	GW	3	1	1	1			<input type="checkbox"/>
15	SB-21	10/15/14	15:30	SW	GW	3	1	1	1			<input type="checkbox"/>
16	SB-8	10/14/14	15:15	SW	GW	3	1	1	1			<input type="checkbox"/>

Relinquished by: _____

Received by: _____

Date: _____

Time: _____

Temp °C _____

EDD format: HQP-NYSDEC

Condition upon receipt: Ambient Refrigerated DI VOA Frozen Soil Jar Frozen

FedEx # 7715 3091 29104

FedEx # 7715 3091 29104

10/17/14

10:25

09

Corrected

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



SPECTRUM ANALYTICAL, INC.
Featuring
HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:

SP08285mny

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: 5/09/14
 All TAT's subject to laboratory approval
 Min. 24-hr notification needed for trashes
 Samples disposed after 60 days unless otherwise instructed.

Report To: M. Wrigley
HQP Associates
 Telephone #: 512 877 7101
 Project Mgr: _____

Invoice To: _____
Saur
 P.O. No.: _____
 Quote/RON: _____

Project No: NEW7442, R2
 Site Name: Monterey
 Location: Baldersdons
 Sampler(s): M. Wrigley
 State: CA

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix
SP08285-17	SB-23 (14-15)	10/16/14	8:50	G	SB
	SB-20 (G-8)	10/16/14	9:35	G	SB
	SB-28 (G-5)	10/16/14	10:45	G	SB
	SB-31 (12-13)	10/16/14	15:10	G	SB
	SB-33 (G-8)	10/16/14	15:25	G	SB
	G-RECU SAND	10/16/14	12:10	G	SB

Containers			
# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
2	1	1	1

List Preservative Code below:
VOCS 0200
SUBSTARS SUBCS
BRCRAMAZ
TCLP BRCRAMAZ

Check if chlorinated

QA/QC Reporting Notes:
 * additional charges may apply.
 MA DEP MCP CAM Report? Yes No
 CT DPH RCP Report? Yes No
 Standard No QC
 DQA* ASP B*
 ASP A* NJ Full*
 NJ Reduced* 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	Analysis	Check if chlorinated
SP08285-17	SB-23 (14-15)	10/16/14	8:50	G	SB	1	1	1	1	VOCS 0200 SUBSTARS SUBCS BRCRAMAZ TCLP BRCRAMAZ	<input type="checkbox"/>
	SB-20 (G-8)	10/16/14	9:35	G	SB	1	1	1	1		<input type="checkbox"/>
	SB-28 (G-5)	10/16/14	10:45	G	SB	1	1	1	1		<input type="checkbox"/>
	SB-31 (12-13)	10/16/14	15:10	G	SB	1	1	1	1		<input type="checkbox"/>
	SB-33 (G-8)	10/16/14	15:25	G	SB	1	1	1	1		<input type="checkbox"/>
	G-RECU SAND	10/16/14	12:10	G	SB	2	1	1	1		<input type="checkbox"/>

Relinquished by: M. Wrigley

Received by: _____

Date: 10.17.14 Time: 1:00

Temp °C: 09

EDD format: HQP - AWS DEC
 E-mail to: _____
 Condition upon receipt: Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen
 Custody Seals: Present Intact Broken

FedEx# 7715 3991 29104

FedEx# 7715 3991 29104

Date: 10.18.14 Time: 10:25

Temp °C: 09

EDD format: _____
 E-mail to: _____
 Condition upon receipt: Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen
 Custody Seals: Present Intact Broken

From: (518) 877-7101
Mark Wright
HRP ASSOCIATES INC
1 FAIRCHILD SQ STE 110

Origin ID: DSV4



Ship Date: 17OCT14
ActWgt: 50.0 LB
CAD: 8738270/INET3550

Dims: 21 X 9 X 15 IN

CLIFTON PARK, NY 12065



J142214082303uv

Delivery Address Bar Code



SHIP TO: (413) 789-9018

BILL SENDER

Sample Receiving, Spectrum
Spectrum Analytical
11 ALMGREN DR

Ref # NEW7442.P2 T3
Invoice #
PO #
Dept #

AGAWAM, MA 01001

1 of 2

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7715 3991 2964

0201

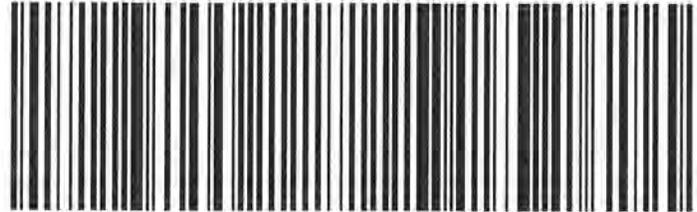
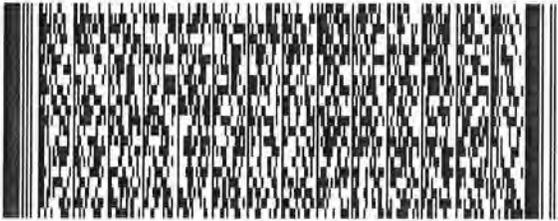
MASTER

01001

MA-US

BDL

X0 EHTA



522G1/DF64/6AC9

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
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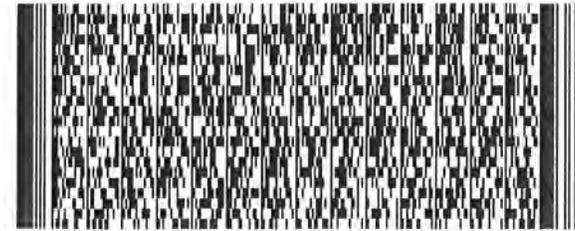
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Sample Receiving, Spectrum
Spectrum Analytical
11 ALMGREN DR

AGAWAM, MA 01001

Ref # NEW7442.P2 T3
Invoice #
PO #
Dept #



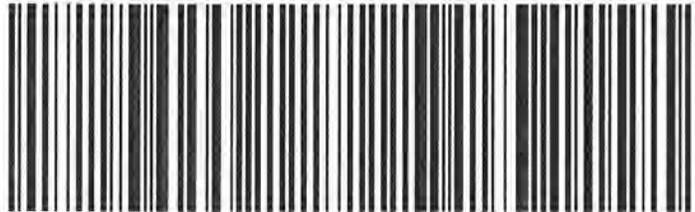
2 of 2 **SATURDAY 12:00P**
PRIORITY OVERNIGHT

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0263
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Page 3 of 3

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Special Handling:

- Standard TAT - 7 to 10 business days
 - Rush TAT - Date Needed: 5/09/14
- All TAT's subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: M. Wright
HRO ASSOCIATES

Invoice To: Saur

Project No: NEU7442, P2
Site Name: Monterey
Location: Barrobas
Sampler(s): M. Wright
State: CA

Telephone #: 512 677 7101
Project Mgr: _____

P.O. No.: _____
Quote/RO#: _____

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers				Temp °C	Observed Correction Factor	Check if chlorinated	Other State-specific reporting standards:
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic				
5808285-17	SB-22 (14-15)	10/16/14	830	G	SO	1	1	1	1	X	X		
18	SB-20 (6-8)	10/16/14	935	G	SO	1	1	1	1	X	X		
19	SB-28 (8-1)	10/16/14	1045	G	SO	1	1	1	1	X	X		
20	SB-31 (12-13)	10/16/14	1510	G	SO	1	1	1	1	X	X		
21	SB-33 (6-8)	10/16/14	1525	G	SO	1	1	1	1	X	X		
22	Gravel SAND	10/16/14	1210	G	SO	2	2	2	2	X	X		
23	Trip blanks					2				X			

Relinquished by: [Signature] Received by: _____
Date: 10/17/14 Time: 1:00
Temp °C: 09

FedEx# 7715 3991 29104 Date: 10/18/14 Time: 1025
Temp °C: 09
Observed Correction Factor: 0

Condition upon receipt: Ambient Refrigerated DJ VOA Frozen
Custody Seals: Present Intact Broken

APPENDIX E

Soil and Groundwater Management Plan

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
100 North Main Street, Suite 104, Elmira, NY 14901
Phone: (607)732-2214 • Fax: (607)734-2620
Website: www.dec.ny.gov



Joe Martens
Commissioner

February 26, 2015

Mr. Eric Greppo, PE
NYSDOCCs- Facility Planning and Development
1220 Washington Ave.
Albany, NY 12226

Re: Spill #1407419
Monterey SICs
Orange (T), Schuyler County

Dear Mr. Greppo:

The Department has reviewed the spill history and subsequent investigation and remedial efforts regarding the above site for the purpose of inactivation and removal from the Department's active spill files. Based upon the Department's review, it has been determined that sufficient work has been done to remediate this spill, no further action is required. This spill has been closed and removed from the Department's active files.

Please be aware that this determination does not preclude reactivation of this case should new information become available, impact upon receptors be discovered in the future or changes in site usage adversely affect human exposure. A Soil and Groundwater Management plan has been prepared detailing how to manage the residual contamination and is expected to be followed by current and future owners.

Please contact me at (607) 732-2214 if you have questions.

Sincerely,

Chad M. Kehoe
Environmental Engineer
New York State
Department of Environmental Conservation
Division of Environmental Remediation

Cc: Cailyn Locci, HRP (via email)



January 13, 2015

Mr. Chad Kehoe
NYSDEC- Spill Response Region 8
100 North Main Street
Elmira, NY 14901

**RE: Monterey Correctional Facility- Soil and Groundwater Management Plan
2150 Evergreen Hill Road, Beaver Dams, New York
NYSDEC Spill #14-07419
(HRP # NEW7444.P2)**

Dear Mr. Kehoe:

Enclosed for your review and approval is the Soil and Groundwater Management Plan (SGMP) for the Monterey Correctional Facility, which HRP Engineering, PC (HRP) has prepared on behalf of New York State Department of Correctional and Community Supervision (DOCCS). As recently discussed, after your approval of the attached SGMP, HRP and DOCCS respectfully request closure of Spill #14-07419.

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101 x108.

Sincerely,
HRP ENGINEERING, PC

A handwritten signature in black ink, appearing to read 'C. E. Locci'.

Cailyn E. Locci
Project Manager

**SOIL AND GROUNDWATER
MANAGEMENT PLAN**

*Monterey Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York*

February 2015

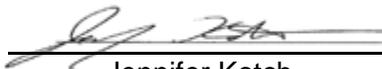
HRP # NEW7445.P2

Prepared for:

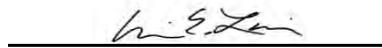
NYSDOCCS Facilities Planning and Development (FP&D)
1220 Washington Avenue
Albany, NY 12226-2050
OGS # SA373, Project SA347, Work Order 10

This report is true and accurate to the best of the undersigned consultant's knowledge

Prepared by:



Jennifer Kotch
Senior Project Geologist



Cailyn E. Locci
Project Manager

**HRP ASSOCIATES, INC.
1 FAIRCHILD SQUARE SUITE 110
CLIFTON PARK, NY 12065
(518) 877-7101**

SOIL AND GROUNDWATER MANAGEMENT PLAN
NYSDOCCS Monterey Correctional Facility
 2150 Evergreen Hill Road
 Beaver Dams, New York

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- Attachment #1: Figures (Historic and Current)
- Attachment #2: Tables (Historic and Current)
- Attachment #3: HRP's Site Specific Limitations/Deviations & General Limitations

SOIL AND GROUNDWATER MANAGEMENT PLAN

*Monterey Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York*

1.0 INTRODUCTION

In December 2014, HRP Engineering, P.C.(HRP) was retained by the New York State Department of Correctional and Community Supervision (NYSDOCCS) to complete a Soil and Groundwater Management Plan (SGMP) for the Monterey Correctional Facility (site), located at 2150 Evergreen Hill Road in the Town of Beaver Dams, Schuyler County, New York (Figure 1). The preparation of this document has been requested by the New York State Department of Conservation (NYSDEC) and must be reviewed and approved by the NYSDEC before a “No Further Action” spill closure request can be issued for Spill #1407419.

Purpose

This SGMP was prepared by HRP on behalf of NYSDOCCS in accordance with the requirements in NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and the guidelines provided by the NYSDEC entitled “Soil and Groundwater Management Plan Criteria, NYSDEC Region 8 Spills Unit” dated August 12, 2008. This SGMP provides a detailed description to outline for a future owner/operator the site history, the extent of petroleum impacted soils and groundwater and who to contact/what to do if any impacted soil and/or groundwater is encountered. To facilitate spill closure, HRP prepared this SGMP report which summarizes the following criteria required by the NYSDEC:

- A brief description/summary of what was at the site (tanks, pumps, etc) and what remedial work was already completed at the site;
- A data summary table which includes historic and current contaminant levels for both soils and groundwater;
- A site diagram identifying soil boring/sampling locations; monitoring well locations, tank (past and present) locations, and the known/anticipated limits of the contaminant plume;
- A brief description of the geology and groundwater flow direction;
- What type of monitoring should be performed if in the future, site work will be taking place in the vicinity of the residual contamination;
- Information to notify the NYSDEC Spills Unit should residual contamination be encountered;
- An outline/discussion of how the material should be handled if it is encountered in the future;
- Discussion of follow up sampling that should be performed and how contaminated materials must be properly handled and properly disposed of or treated;
- A discussion that the use of engineering controls should be evaluated based on future usage;
- A site Health and Safety Plan (HASP) for any excavation/ dewatering activities conducted in the suspected areas of contamination to protect worker safety (the

responsibility for the HASP exists with the party(ies) conducting the future excavation/dewatering activities) and;

- A list of agencies and parties that will be receiving a copy of the Final Plan.

2.0 SITE FEATURES HISTORY & SUMMARY

The subject site is composed of 22 contiguous acres (Parcel No. 82.00-1-12.1) and was utilized by NYSDOCCS as the Monterey Shock Incarceration Correctional Facility, a minimum security work camp. It should be noted that as of July 2014, the facility was no longer in use as a correctional facility and is in the process of being decommissioned. A figure showing the Site location and boundaries is provided in Figure 1. The site is improved by 45 buildings (comprising approximately 86,814 square feet). The buildings reportedly range in date of construction from 1958 to 2010; however, it appears that most of the buildings were constructed as part of a 1991 renovation and expansion. The Site is bound by NY State Forest land and woodlands to all directions and NYSDEC Camp Monterey to the east (see Figure 2). Few residences exist nearby.

The subject property utilized a central steam heating system located at a power plant located in Building 2. Several other buildings (C and D dormitories) were heated by oil-fired or propane furnaces within the individual building. The facility's drinking water was supplied by three (3) onsite drinking water wells. According to the USEPA Envirofacts website, Monterey Correctional Facility's water supply was registered with the New York State Department of Health Public water System ID# NY4810588; however, as the facility is being decommissioned, it is no longer registered with NYS Dept of Health. One 6,000 gallon #2 fuel oil UST (NO 2) is currently located onsite to the west of the Administration Building (Building 1) and eight (8) primary above ground storage tanks (ASTs) and five (5) day tanks exist onsite. It should be noted that all tanks have been emptied of product and have been placed in a "Temporarily Out of Service" condition as part of site decommissioning activities. No staining was observed near the ASTs during the 2013 Phase II, which were observed to be properly numbered, labeled, and located in secondary containment units. Twelve (12) underground storage tanks (USTs) have been removed in the past from near the Recreation, Maintenance, and Administration Buildings. Additional information regarding the current and historic tanks is provided below.

Petroleum Bulk Storage (PBS)

The subject property is a listed State Registered Underground or Aboveground Storage Tanks (USTs/ASTs) site identified within the search radius on the Registered Underground Storage Tanks (USTs) database. According to the database, the subject site is registered under the NYS Petroleum Bulk Storage (PBS) Program with Registration No. 8-021512 for USTs located onsite. Figure 2 and 3 show tank locations (existing, former, and suspected locations of USTs and ASTs). A description of the USTs and ASTs found at the facility are as follows:

Tank #	AST/UST	Install Date	Tank Type	Status/Spill #	Size (gallons)	Contents	Location
Temporarily Out of Service							
2 DSL	AST	5/01/1999	Steel Tank Encased in Concrete	Temporarily Out of Service	500	Diesel	Fuel pumps near Building 6.
3 GAS A	AST	5/14/2013	Steel/ Carbon Steel/Iron	Temporarily Out of	2,000	Gasoline	Fuel pumps near Building 6.

Tank #	AST/UST	Install Date	Tank Type	Status/Spill #	Size (gallons)	Contents	Location
				Service			
C	AST	5/01/2002	Steel Tank Encased in Concrete	Temporarily Out of Service	8,000	#2 Fuel Oil	C Dorm
D	AST	5/01/2002	Steel Tank Encased in Concrete	Temporarily Out of Service	6,000	#2 Fuel Oil	D Dorm
DT-1	AST	5/01/2002	Steel / Carbon Steel	Temporarily Out of Service	50	#2 Fuel Oil	D Dorm day tank
DT-2	AST	4/01/1988	Steel / Carbon Steel	Temporarily Out of Service	25	#2 Fuel Oil	D Dorm day tank
DT-3	AST	5/01/2002	Steel / Carbon Steel	Temporarily Out of Service	50	#2 Fuel Oil	D Dorm day tank
DT-4	AST	5/01/2002	Steel / Carbon Steel	Temporarily Out of Service	50	#2 Fuel Oil	D Dorm day tank
DT-5	AST	5/01/2002	Steel / Carbon Steel	Temporarily Out of Service	50	#2 Fuel Oil	D Dorm day tank
GNT	AST	5/11/2006	Steel / Carbon Steel	Temporarily Out of Service	4,000	#2 Fuel Oil	Emergency Generator in Power Plant
GYM	AST	5/01/2002	Steel Tank Encased in Concrete	Temporarily Out of Service	4,000	#2 Fuel Oil	Recreation Building (Building 10)
SPB	AST	05/1/02	Steel Tank Encased in Concrete	Temporarily Out of Service	1,000	#2 Fuel Oil	Education Building/ Programs (Building 39)
WASTE	AST	07/1/02	Steel / Carbon Steel	Temporarily Out of Service	500	Waste Oil	Building 5 - Maintenance Shop
NO 2	UST	06/1/92	Steel / Carbon Steel	Temporarily Out of Service	6,000	#2 Fuel Oil	Administration Building (Building 1)
Closed/Removed							
3 GAS	AST	1999	Steel / Carbon Steel	Closed	2,000	Gasoline	Fuel pumps near Building 6.
ADM	AST	Unknown	Steel / Carbon Steel	Closed	550	Unknown	Administration Building (Building 1)
LUBEC	AST	2002	Steel / Carbon Steel	Closed	60	Motor Oil	Building 5 - Maintenance Shop
1 GAS	UST	7/1/1983	Steel / Carbon Steel	Removed 10/1/1998	1,000	#2 Fuel Oil	Administration Building (Building 1)
2 GAS	UST	7/1/1983	Steel / Carbon Steel	Removed 10/1/1998	1,000	#2 Fuel Oil	Administration Building (Building 1)
CDD	UST	Unknown	Steel/ Iron	Removed 5/2002 Spill # 02705098 Closed Not	15,000	#2 Fuel Oil	Recreation Building (Building 10)

Tank #	AST/UST	Install Date	Tank Type	Status/Spill #	Size (gallons)	Contents	Location
				Meeting DEC standards March 5, 2003			
GEN	UST	12/1/1957	Steel / Iron	Closed prior to 1991	250	Unknown	Unknown
GNTX	UST	unknown	Steel / Iron	Removed 1/2006 Spill # 0551518 Closed Not Meeting DEC standards May 8, 2006	1,000	#2 Fuel Oil	Administration Building (Building 1)
GYM-A	UST	09/1969	Steel / Carbon Steel	Removed circa 2002	1,000	#2 Fuel Oil	Recreation Building (Building 10)
LDR	UST	unknown	Steel / Iron	Removed 3/2002	1,000	#2 Fuel Oil	Courtyard near Building 40
MNT	UST	05/1984	Steel / Iron	Closed in Place	550	Unknown	Unknown
PP1	UST	12/1/1957	Steel / Carbon Steel	05/1/1991	3,000	Unknown	Unknown
PP2	UST	08/1/1978	Steel / Carbon Steel	Removed 05/1/1991 Spill # 9102933 Closed Not Meeting DEC standards July 7, 1994	5,000	#2 Fuel Oil	Unknown
PRO	UST	unknown	Steel / Carbon Steel	Removed 3/2002 Spill # 0111985 Closed Not Meeting DEC standards on May 1, 2003	1,000	#2 Fuel Oil	Programs Building (Building 39)
VOC	UST	unknown	Steel / Carbon Steel	Removed 3/2002 Spill # 0111984 Closed Meeting DEC standards on May 1, 2003	550	#2 Fuel Oil	Shop Building (Building 9)

3.0 HISTORIC AND CURRENT PHASE I AND REMEDIAL INVESTIGATION FINDINGS

Five separate UST Closure reports (four dated January 6, 2003 & one dated August 16, 2006), a December 2013 Phase I report and an October 2014 Phase II report have been completed for the site. The reports and the findings and conclusions along with remediation and spill closure activities, if any, are discussed below.

January 6, 2003 UST Closure Report, Monterey S.I.C.F. - Building 37, Prepared For New York State Office of General Services by The Tyree Organization, Ltd. Brookfield, CT.

The first closure report describes the removal and disposal of a 15,000-gallon heating oil UST (Tank CDD) that was removed from near Building 37 (Tank ID # CDD) at the site. The UST was removed on May 14, 2002, and the UST was noted to be in good condition. No holes or evidence of contamination was observed. Five (5) post-excavation soil samples were collected (one from each sidewall plus the base of the excavation) and analyzed for STARS Volatile Organic Compounds (VOCs) via USEPA Method 8021 and STARS Semi-Volatile Organic Compounds (SVOCS) via USEPA Method 8270. The sample results showed that SVOCs remained at the west side of the excavation above the NYSDEC TAGM 4046 Soil Cleanup Objectives (SCOs). No groundwater was reportedly encountered; therefore samples were not collected.

According to the EDR database reviewed during the 2013 Phase I, Spill # 02705098 was assigned to the site on May 14, 2002 as a result of post-excavation soil sample results. The spill was closed, not meeting DEC standards, on March 5, 2003. Results are attached as Tables 1 and 2. A figure is provided in Attachment 1.

January 6, 2003 UST Closure Report, Monterey S.I.C.F. - Building 39, Prepared For New York State Office of General Services by The Tyree Organization, Ltd. Brookfield, CT.

The second closure report describes the removal and disposal of a 1,000-gallon heating oil UST that was removed from near Building 39 (Tank ID # PRO) at the site. The UST was removed in March 2002, and while the UST was noted to be in good condition, visual evidence of contamination was noted in the excavation. Approximately 5.2 tons of contaminated soil was excavated and disposed of at Seneca Meadows Landfill in Seneca Falls, NY. Five post-excavation soil samples were collected (one from each sidewall plus the base of the excavation) and analyzed for STARS Volatile Organic Compounds (VOCs) via USEPA Method 8021 and STARS Semi-Volatile Organic Compounds (SVOCS) via USEPA Method 8270. The sample results showed that SVOCs remained at the north side of the excavation above the NYSDEC TAGM 4046 Soil Cleanup Objectives (SCOs). No groundwater was reportedly encountered; therefore samples were not collected. Results are attached as Tables 3 and 4. A figure is provided in Attachment 1.

Spill # 0111985 was reported as a result of the visual evidence of contamination observed in the excavation of Tank PRO. The spill was closed not meeting DEC standards on May 1, 2003.

January 6, 2003 UST Closure Report, Monterey S.I.C.F. - Building 9, Prepared For New York State Office of General Services by The Tyree Organization, Ltd. Brookfield, CT.

The third closure report describes the removal and disposal of a 550-gallon heating oil UST that was removed from near Building 9 (Tank ID # VOC) at the site. The UST was removed in March 2002, and while the UST was noted to be in good condition, visual evidence of contamination was noted in the excavation. Approximately 13.3 tons of contaminated soil was excavated and disposed of at Seneca Meadows Landfill in Seneca Falls, NY. Five post-excavation soil samples were collected (one from each sidewall plus the base of the excavation) and analyzed for STARS Volatile Organic Compounds (VOCs) via USEPA Method 8021 and STARS Semi-Volatile Organic Compounds (SVOCS) via USEPA Method 8270. The sample results were below NYSDEC TAGM 4046 Soil Cleanup Objectives (SCOs). No groundwater was reportedly encountered; therefore samples were not collected. Results are attached as Tables 5 and 6. A figure is provided in Attachment 1.

The report indicates Spill # 0111984 was reported during the tank removal activities; likely due to limited soil contamination being left in place as it is stated "the majority of the contaminated soil was removed".

The spill was closed meeting DEC standards on May 1, 2003.

January 6, 2003 UST Closure Report, Monterey S.I.C.F. - Building 40, Prepared For New York State Office of General Services by The Tyree Organization, Ltd. Brookfield, CT.

The fourth closure report describes the removal and disposal of a 1,000-gallon heating oil UST that was removed from near Building 40 (Tank ID # LDR) at the site. The UST was removed in March 2002, and the UST was noted to be in good condition, and no visual evidence of contamination was noted in the excavation. Five (5) post-excavation soil samples were collected (one from each sidewall plus the base of the excavation) and analyzed for STARS Volatile Organic Compounds (VOCs) via USEPA Method 8021 and STARS Semi-Volatile Organic Compounds (SVOCS) via USEPA Method 8270. The sample results showed that few SVOCS remained in the soils at the north and west side of the excavation above the NYSDEC TAGM 4046 Soil Cleanup Objectives (SCOs), likely due to the inclusion of asphalt in the sample (as explained by Tyree). No groundwater was reportedly encountered; therefore samples were not collected. Results are attached as Tables 7 and 8. A figure is provided in Attachment 1.

A Spill was not reported to the NYSDEC for this UST removal.

August 16, 2006 UST Closure Report, Monterey S.I.C.F. Emergency Generator Tank, Wilkins Construction, Inc., Syracuse, NY.

A UST Closure Report was prepared on August 16, 2006 by Wilkins Construction, Inc. of Syracuse, NY. Spill # 0551518 was assigned to the site in on January 19, 2006 as a result of product detected in the interstitial space of a 1,000 gallon diesel UST (Tank GNT X). The UST was removed in January 2006 by Wilkins Construction and no contaminated soil was observed. Five post excavation soil samples were collected from the excavation and analyzed for STARS SVOCS; no exceedances of NY Soil Cleanup Objectives were detected. Results are attached in Table 9. No figure is available for this UST removal.

According to the EDR database reviewed during the 2013 Phase I, Spill # 0551518 was reported to the NYSDEC in association with this UST removal and was closed, not meeting standards, on May 8, 2006.

December 26, 2013 Phase I Environmental Site Assessment, Monterey Correction Facility, 2150 Evergreen Hill Road, Beaver Dams, New York Prepared For NYSDOCCS FP&D by HRP Associates, Clifton Park, NY

HRP completed a Phase I Environmental Site Assessment (ESA) of the subject property in December of 2013. No Recognized Environmental Conditions (RECs) were identified during the Phase I investigation. However, the following data gaps were identified during the Phase I which interfered with HRP's ability to identify RECs:

- No documentation (e.g. sample results, UST Closure Reports) related to the removal or closure of seven (7) petroleum USTs (1-GAS, 2-GAS, GEN, GYM-A, MNT, PP1, and PP2) was available to HRP for review.
- No information (e.g. location or service schedule) was available regarding the suspected oil/water separator located outside of the maintenance building. This feature has the potential to impact the subject property due to the processing of oil and/or hazardous materials.

Based on the findings presented in the ESA, HRP recommended a Phase II investigation be conducted.

November 2014 Phase II Environmental Site Assessment (Phase II ESA), HRP Associates P.C. Clifton Park, New York.

The Phase II was conducted to determine if soil and/or groundwater has been impacted by the historical use of seven (7) underground ground storage tanks (USTs) and the suspected use of an oil water separator onsite.

The Phase II ESA included Ground Penetrating Radar (GPR) Survey and Site Plan Review, the installation of thirty-three (33) soil borings, six (6) of which were converted into temporary monitoring wells, and the collection and analysis for VOCs, SVOCs, and 8 RCRA Metals (total) of select soil and groundwater samples. A total of seven AOCs were identified and are described in the table below, along with associated boring locations:

UST & AOCs	Soil Boring ID	Boring Locations
AOC-1	SB-1 through SB-8	In area of the reported location of historic USTs 1 GAS and 2 GAS located on the west side of the Administration Building.
AOC-2	SB-9 through SB-13	In area of a suspected UST grave observed during the GPR. The suspected UST grave is located to the south of the existing UST and is suspected to be related to the Power Plant suspected to be (PP-1 or PP-2).
AOC-2	SB-16 through SB-20	In area of a suspected UST grave observed during the GPR. The suspected UST grave is located to the east of the existing UST and is suspected to be related to the Power Plant (PP-1 or PP-2).
AOC-3	SB-14 through SB-15	In the area around the existing fuel-oil UST.
AOC-4	SB-21 through SB-22	In the area downgradient of where a UST was observed on the reviewed site plans near the back-up generator. Suspected to be former UST GEN.
AOC-5	SB-23 through SB-27	In the area downgradient of where a UST was observed on the reviewed site plans near the Maintenance Building. Suspected to be former UST MNT.
AOC-6	SB-28 through SB-29	In the area of the oil and water separator.
AOC-7	SB-30 through SB-33	In area of the reported location of historic UST GYM-A located on the north side of the Gym Building.

The Phase II identified low level petroleum contamination, associated with historic USTs suspected to be PP-1, PP-2, located by the power plant. The detailed results of the Phase II ESA are discussed below:

AOC-1: Historic USTs 1-GAS and 2-GAS - Conclusions

- No obvious evidence of gross contamination was noted in the soil samples collected from this area and all PID readings were 0.0 ppm. No staining was observed in any soil sample.

- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- No obvious evidence of gross contamination was noted in the groundwater samples collected from this area during this investigation based on field screening. No petroleum or sheen was observed in any groundwater sample in this area sample.
- No VOCs or STARS SVOCs were detected above NYSDEC Class GA Criteria in the groundwater samples collected in this area. Although multiple the 8 RCRA metals were detected at concentrations slightly above NYSDEC Class GA Criteria in the samples collected from this area it is likely that these concentrations are elevated due to the high amount of turbidity observed in the samples.
- Based on these results, there was no evidence of a petroleum release in the area of historic USTs 1-GAS and 2-GAS.

AOC-2: Historic USTs Suspected to be PP-1 and PP-2 - Conclusions

- Odors associated with petroleum contamination were observed in soil samples collected from SB-16 at a depth of six to thirteen (6-13) feet below grade and SB-20 at a depth of eight to twelve (8-12) feet below grade. Petroleum staining was observed on the soil sample collected from SB-16 at a depth of eight to twelve (8-12) feet below grade. The soil samples collected were screened with a PID. PID readings greater than 0.0 ppm were detected in six (6) of the ten (10) soil borings installed in this area.
- STARS SVOCs were not detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- One VOC was detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in one soil samples collected in the this area.
- Evidence of gross contamination was noted in one of the two groundwater samples collected from this area during this investigation. A petroleum sheen was observed on the groundwater sample collected from SB-20.
- VOCs, STARS SVOCs and 8 RCRA metals (total) were detected above NYSDEC Class GA Criteria in both groundwater samples collected in this area.
- Based on these results, there is evidence of a petroleum release in the area of the historic USTs suspected to be PP-1 and PP-2 and a spill was reported to the NYSDEC on October 17, 2014. Spill #1407419 was assigned to the case.

AOC-3: Current USTs - Conclusions

- No odors associated with petroleum contamination were observed in soil samples collected from SB- 14 and SB-15. The soil samples collected were screened with a PID. PID readings greater than 0.0 ppm were detected in one (1) of the two (2) soil borings installed in this area.
- VOCs and STARS SVOCs were not detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the this area.
- One 8 RCRA metals (total) was detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the one soil sample collected in the this area.
- Based on these results, there is no evidence of a petroleum release in the area of the current UST.

AOC-4: Historic UST Suspected to be GEN - Conclusions

- No obvious evidence of gross contamination was noted in the soil samples collected from this area during this investigation based on field screening and all PID readings were 0.0 ppm. No staining was observed in any soil sample.

- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil sample collected in the this area.
- No obvious evidence of gross contamination was noted in the groundwater samples collected from this area during this investigation based on field screening. No petroleum or sheen was observed in any groundwater sample in this area sample.
- No VOCs were detected above NYSDEC Class GA Criteria in the groundwater sample collected in this area. Five (5) STARS SVOCs were detected at concentrations slightly above NYSDEC Class GA Criteria in the samples collected from this area. Although five (5) of the eight (8) RCRA 8 Metals (total) were detected at concentrations slightly above NYSDEC Class GA Criteria in the samples collected from this area, however, it is likely that these concentrations are elevated due to the high amount of turbidity observed in the samples.
- Based on these results, there is evidence of a petroleum release in the area of the historic UST suspected to be GEN.

AOC-5: Historic UST Suspected to be MNT - Conclusions

- No obvious evidence of gross contamination was noted in the soil samples collected from this area during this investigation based on field screening. The soil samples collected were screened with a PID and all readings were 0.0 ppm. No staining was observed in any soil sample.
- No VOCs, STARS SVOCs or RCRA 8 Metals (total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the area of the historic UST suspected to be MNT. Based on these results, there was no evidence of a petroleum or hazardous materials release in this area.
- No groundwater was encountered during the investigation, as such, no groundwater samples were collected.

AOC-6: Oil/Water Separator – Conclusions

- No obvious evidence of gross contamination was noted in the soil samples collected from this area during this investigation based on field screening. The soil samples collected were screened with a PID and all readings were 0.0 ppm. No staining was observed in any soil sample.
- No VOCs or STARS SVOCs were detected above NYSDEC Class GA Criteria in the groundwater sample collected in the boring downgradient of the oil/water separator. Although several of the 8 RCRA metals were detected at concentrations slightly above NYSDEC Class GA Criteria in the sample collected from this area it is likely that these concentrations are elevated due to the high amount of turbidity observed in the sample.
- Based on these results, there was no evidence of a petroleum or hazardous materials release in the area of the oil/water separator.

AOC-7: Historic UST GYM-A - Conclusions

- No obvious evidence of gross contamination was noted in the soil samples collected from this area during this investigation based on field screening. The soil samples collected were screened with a PID and all readings were 0.0 ppm. No staining was observed in any soil sample.
- No VOCs, STARS SVOCs or RCRA 8 Metals (total)(total) were detected above applicable NYSDEC criteria (Unrestricted Use, Protection of Groundwater or CP-51) in the soil samples collected in the area of the historic UST GYM-A. Based on these results, there was no evidence of a petroleum or hazardous materials release in this area.

- No groundwater was encountered during the investigation, as such, no groundwater samples were collected.

The locations of the borings that were advanced are shown on Figure 3 and results are presented on Tables 10 and 11.

On November 5, 2014, HRP spoke to Mr. Chad Kehoe, NYSDEC Spill Case Manager, regarding spill closure for Spill #1407419. HRP provided Mr. Kehoe with Phase II analytical data collected in October 2014 for review and Mr. Kehoe agreed with HRP's assessment that there is no need for active remediation at this time. However, Mr. Kehoe requested that a SGMP be submitted. Mr. Kehoe stated that after the SGMP is approved by the NYSDEC, they would consider closing Spill #1407419, not meeting standards. The NYSDEC Regional Spill Case Manager should be notified if ownership changes.

4.0 GEOLOGY AND GROUNDWATER FLOW

Surficial Geology

The overburden materials identified during the 2014 Phase II investigation generally consist of medium to fine sand and silt with trace to some gravel from depth of zero to ten to fifteen feet below grade in several areas. The material is compact and light brown to brown in color. Additionally, clay layers were encountered generally between seven and fifteen feet below grade with some silt and gravel in multiple other borings. This material was of medium compaction and grey to brown in color.

Bedrock Geology

Bedrock geology consists of the Beers Hill, Dunn Hill, Millport and Moreland Shales formation (Dwm) of Upper Devonian age. The primary rock type consists of shale with the secondary rock type indicated as black shale (D. W. Fisher, et al. 1970). Possible weathered bedrock was encountered between 10 and 15 feet below grade in several borings installed during the 2014 Phase II investigation.

Groundwater

Topography in the immediate vicinity slopes northwest toward an unnamed tributary of Meads Creek. Depth to groundwater is estimated to be approximately 18 to 20 feet below grade. Based on observations made during the 2014 Phase II, the shallow groundwater onsite consists of a discontinuous perched aquifer. Based on the topography the groundwater in the shallow, perched, overburden aquifer at the Site is presumed to flow to the west-northwest. Currently, there is no network of monitoring wells at the Site.

5.0 FUTURE SOIL AND GROUNDWATER MONITORING PLAN

5.1 Monitoring Plan

Currently, exposures to the low level petroleum contaminated soils and groundwater are prevented by an asphalt cover and surface soils that are in place. However, if in the future, site work, including intrusive activities (i.e. excavating), will be taking place in the vicinity of the residual contamination, specifically in the area of the Administrative Building and the Power Plant (AOC-2), then proper monitoring will be necessary.

Monitoring activities should be conducted by an environmental professional and should be completed in accordance with *NYSDEC DER-10/Technical Guidance for Site Investigation and Remediation*,

dated May 2010. Monitoring activities during future intrusive activities may include one or more of the following:

- Soil and groundwater screening (i.e. PID screening, observations of staining/odors)
- Sampling and analysis of all appropriate media (e.g. groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards and Part 375 SCOs for soil;
- Evaluating site information periodically to confirm contamination exposure to public health and the environment are minimal;
- Preparing the necessary reports for the various monitoring activities.

5.2 Notifications and Responsibilities

If contaminated material is encountered onsite in the future, the NYSDEC Spills Hotline and the Region 8 NYSDEC Spills Unit must be notified. Below is the notification information:

NYSDEC Spills Hotline	(800) 457-7362
NYSDEC Region 8 Spills Unit: Mr. Chad Kehoe (Case Manager) 100 North Main Street Elmira, NY 14901	(607) 732-2214 chad.kehoe@dec.ny.gov

When notifying the NYSDEC Region 8 Spills Unit the following information should be provided:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact the contaminated area;
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling; and
- A schedule for the work, detailing the start and completion of all intrusive work.

At the time of this document's writing, the site owner is NYSDOCCS (contact information below). Should site ownership of the property ever transfer, the NYSDEC Case Manger must be notified to update this document and associated records.

Mr. Eric Greppo, P.E. NYSDOCCS- Facility Planning and Development 1220 Washington Ave. Albany, NY 12226	(518) 473-3582 eric.greppo@doccs.ny.gov
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5.3 Excavation Work Plan

In the event the cover system (i.e. asphalt pavement or surface soils) is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed an Excavation Work Plan should be followed. The Excavation Work Plan, which outlines the procedures required to be implemented, should include the following:

5.3.1 Soil Screening Methods-

Visual, olfactory and instrument-based soil screening should be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening should be performed regardless of when the invasive work is done and should include all excavation and invasive work performed during development, such as excavations for foundations and utility work. Soils should be segregated based on previous environmental data and screening results into material that requires off-site disposal, material that requires testing, materials that can be returned to the subsurface, and material that can be used as cover soil. It should be noted that soils which exhibit visual and/or olfactory impacts are considered contaminated according to NYSDEC standards, regardless of laboratory analytical results, and must be handled accordingly.

All soil and/or groundwater sampling required for investigation, confirmation, segregation, and/or transportation purposes should be completed in accordance with DER-10 procedures.

5.3.2 Stockpile Methods-

Soil stockpiles should be continuously encircled with a berm and/or silt fence. Sediment control measures (i.e. straw bales, gravel bags) should be used as needed near catch basins, surface waters and other discharge points. Stockpiles should be kept covered at all times with appropriately anchored tarps. Stockpiles should be routinely inspected and damaged tarp covers will be promptly replaced. Stockpiles should be inspected at a minimum once each week and after every storm event. Results of inspections should be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

5.3.3 Material Excavation and Load Out-

A qualified environmental professional or person under their supervision should oversee all invasive work and the excavation and load-out of all excavated material. The presence of utilities and easements on the site should be investigated by the qualified environmental professional.

Loaded vehicles leaving the site should be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash should be operated on-site. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete.

Locations where vehicles enter or exit the site should be inspected daily for evidence of off-site soil tracking. The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

5.3.4 Materials Transport Off-Site-

All transport of materials should be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers should be appropriately

licensed and trucks properly placarded. Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks should be washed prior to leaving the site. Truck wash waters will be collected and disposed of off-site in an appropriate manner. All trucks loaded with site materials will exit the vicinity of the site using approved truck routes. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development. Queuing of trucks should be performed on-site in order to minimize off-site disturbance.

5.3.5 Materials Disposal Off-site-

All soil/fill/solid waste excavated and removed from the site should be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan should be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils should be identified in the pre-excavation notification. This should include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation (waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts) should be reported to the NYSDEC.

Non-hazardous historic fill and contaminated soils taken off-site should be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

5.3.6 Fluids Management-

All liquids to be removed from the site, including excavation dewatering, should be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but should be managed off-site. Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) should be performed under a SPDES permit.

5.3.7 Backfill from Off-Site Sources-

All materials proposed for import onto the site should be approved by the qualified environmental professional. Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site. All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site. Trucks entering the site with imported soils should be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

5.4 Health and Safety Plan

An appropriate Site Health and Safety Plan (HASP) is required to be developed and implemented during future excavation and/or dewatering activities conducted in the suspected areas of contamination to protect workers safety. It is the responsibility of the party(ies) conducting the excavation/dewatering activities to develop and implement the HASP. The HASP should be prepared by a qualified person in accordance with the most recently adopted and applicable general industry (29 CFR 1910) and construction (29 CFR 1926) standards of OSHA, the US Department of Labor, as well as any other federal, state or local applicable statutes or regulations. A copy of the HASP should be available at the site during the conduct of all activities to which it is applicable.

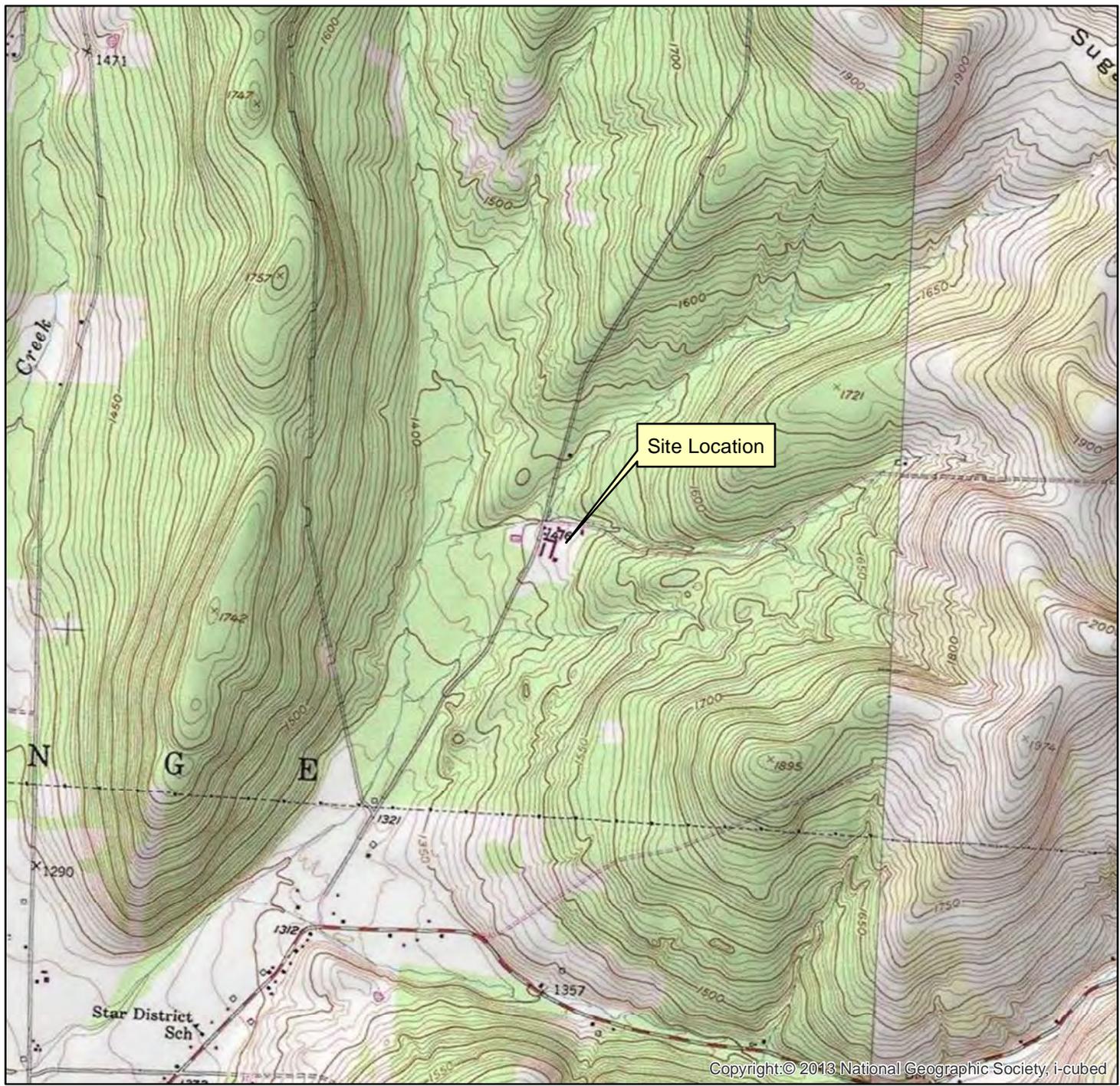
In addition to the HASP, a Community Air Monitoring Plan (CAMP) may also be required to be developed and implemented during any intrusive activities to address community health and safety. The CAMP should be prepared in accordance with NYSDEC DER-10 and NYSDOH requirements.

5.5 Future Use and Controls

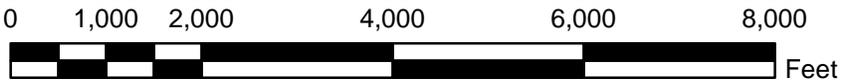
Currently, no monitoring programs or use restrictions are in place for the site and it is unknown if the future use of the site will change. However, the use of engineering controls (i.e. demarcation layer and soil cover) or institutional controls (i.e. use restrictions) should be evaluated if the future usage of the site is changed. For example, no network of monitoring wells currently exists onsite, however, if future use of the site were to change, consideration should be given to the installation of monitoring wells and the evaluation of groundwater contaminants via monitored natural attenuation, specifically in the area of PP-1 and PP-2. The NYSDEC must be notified of any change in future use of the property.

It should be noted that a copy of this SGMP has been provided to the current site owner (NYSDOCCs), the NYSDEC and to the local NYSDOH Department.

**ATTACHMENT #1
FIGURES (HISTORIC AND CURRENT)**



Copyright: © 2013 National Geographic Society, i-cubed



USGS Quadrangle Information
 Quad ID: 42077-C1
 Name: Bradford, New York
 Date Rev: 1976
 Date Pub: 1979

Figure 1
Site Location
Monterey Shock
Incarceration Facility
Monterey, New York
HRP# NEW7442.P2
Scale 1" = 2,000'

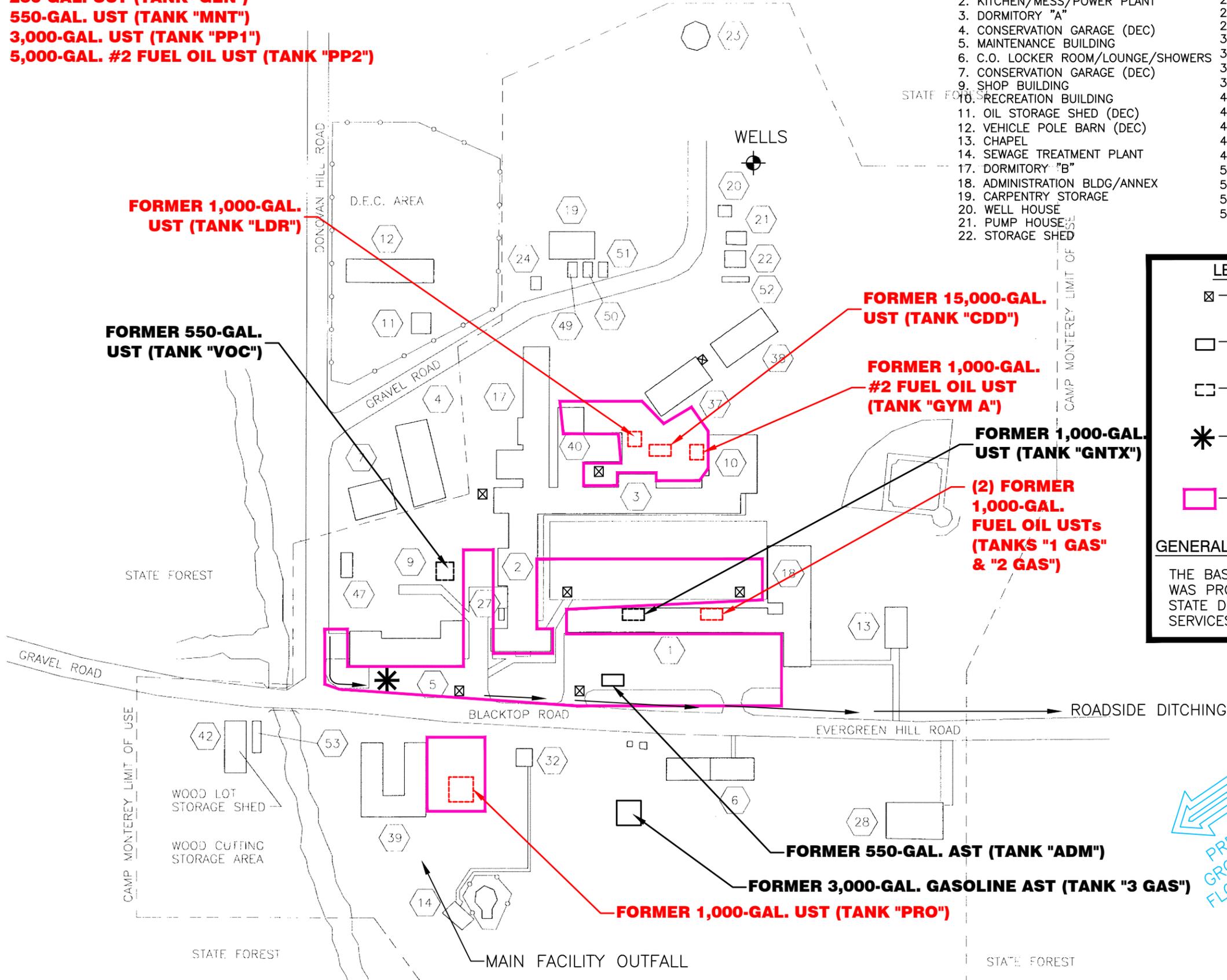


ONE FAIRCHILD SQUARE
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 (518) 877-7101
 HRPASSOCIATES.COM

DRAWING NAME: S:\Data\N\NEWYR -OGS\DOCS\EMIS\Monterey Shock Phase II working folder\figures\20141223-V1-Fig2-Overall Site Plan.dwg LAYOUT: 11 x 17 - SSM PLOT DATE: Dec 23, 2014 - 4:57pm OPERATOR: BOB

FOUR (4) - USTs WITH UNKNOWN LOCATIONS

- 250-GAL. UST (TANK "GEN")**
- 550-GAL. UST (TANK "MNT")**
- 3,000-GAL. UST (TANK "PP1")**
- 5,000-GAL. #2 FUEL OIL UST (TANK "PP2")**



BUILDING INDEX

- | | |
|------------------------------------|-----------------------------------|
| 1. ADMINISTRATION BUILDING | 23. WATER TOWER |
| 2. KITCHEN/MESS/POWER PLANT | 24. HOSE HOUSE |
| 3. DORMITORY "A" | 27. WALK-IN COOLER |
| 4. CONSERVATION GARAGE (DEC) | 28. LOG CABIN |
| 5. MAINTENANCE BUILDING | 32. LABORATORY |
| 6. C.O. LOCKER ROOM/LOUNGE/SHOWERS | 37. DORMITORY "C" |
| 7. CONSERVATION GARAGE (DEC) | 38. DORMITORY "D" |
| 9. SHOP BUILDING | 39. EDUCATION BUILDING/PROGRAMS |
| 10. RECREATION BUILDING | 40. LAUNDRY/SHOWER ROOM |
| 11. OIL STORAGE SHED (DEC) | 41. NETWORK/ASAT BUILDING |
| 12. VEHICLE POLE BARN (DEC) | 42. STORAGE/WOOD LOT |
| 13. CHAPEL | 47. SALT/MAINTENANCE STORAGE SHED |
| 14. SEWAGE TREATMENT PLANT | 49. CONTAINER #1 8'x20' |
| 17. DORMITORY "B" | 50. CONTAINER #2 8'x20' |
| 18. ADMINISTRATION BLDG/ANNEX | 51. CONTAINER #3 8'x20' |
| 19. CARPENTRY STORAGE | 52. CONTAINER #4 8'x40' |
| 20. WELL HOUSE | 53. CONTAINER #5 8'x40' |
| 21. PUMP HOUSE | |
| 22. STORAGE SHED | |

LEGEND

- ☒ - STORM SEWER CATCH BASIN
- - ABOVEGROUND STORAGE TANK
- ▭ - UNDERGROUND STORAGE TANK
- ✱ - SUSPECTED OIL/WATER SEPARATOR
- ▭ (pink) - AREA OF GPR SURVEY

GENERAL NOTES

THE BASE MAP FOR THIS FIGURE WAS PROVIDED BY THE NEW YORK STATE DEPARTMENT OF CORRECTIONAL SERVICES.

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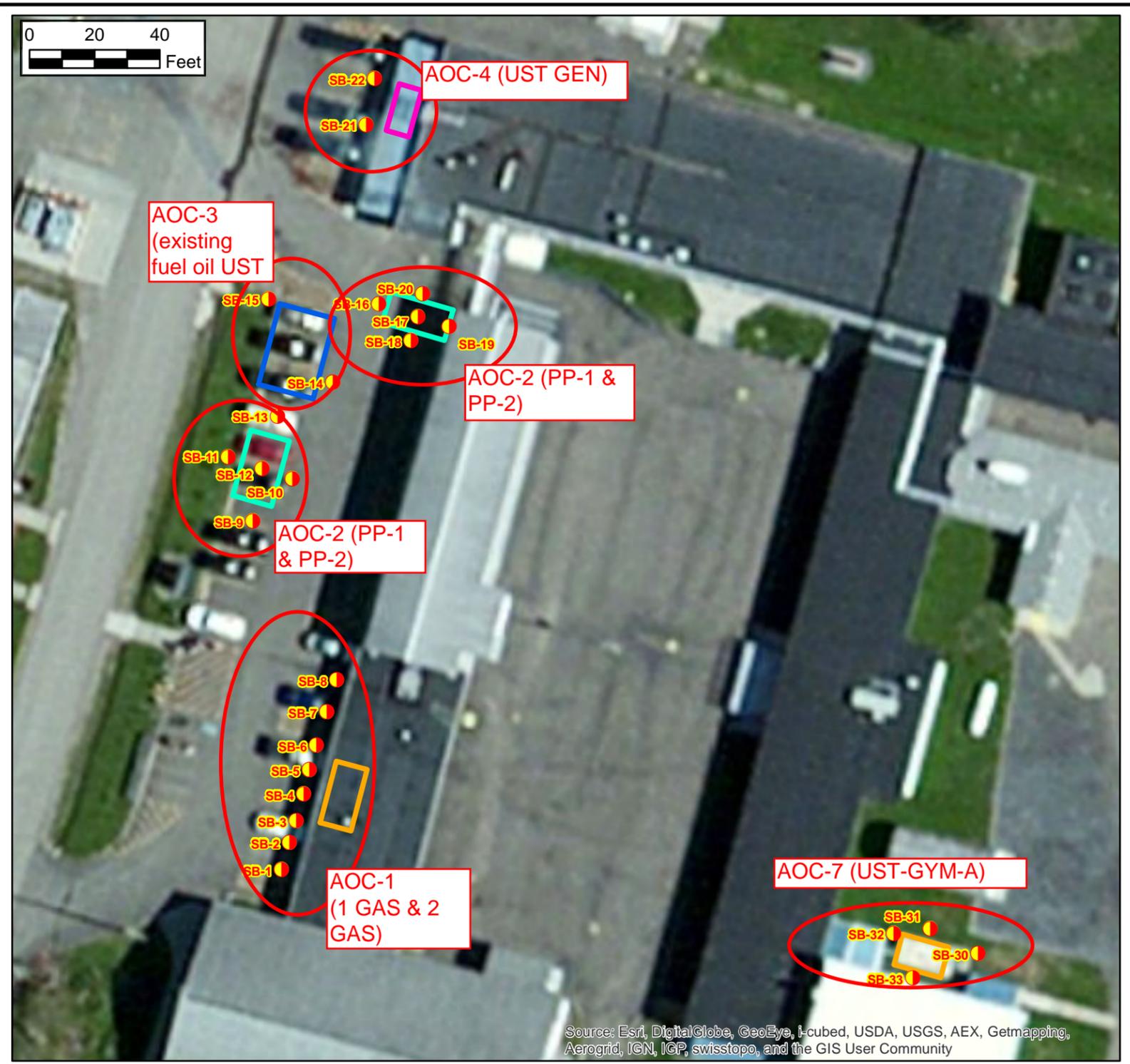
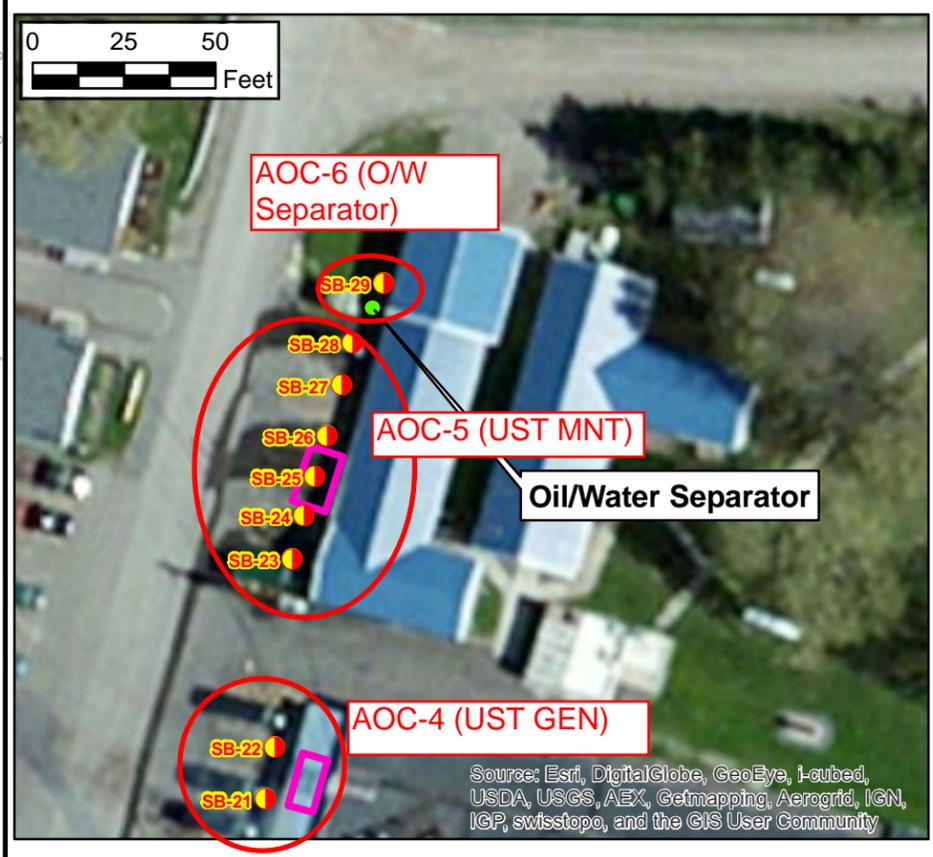
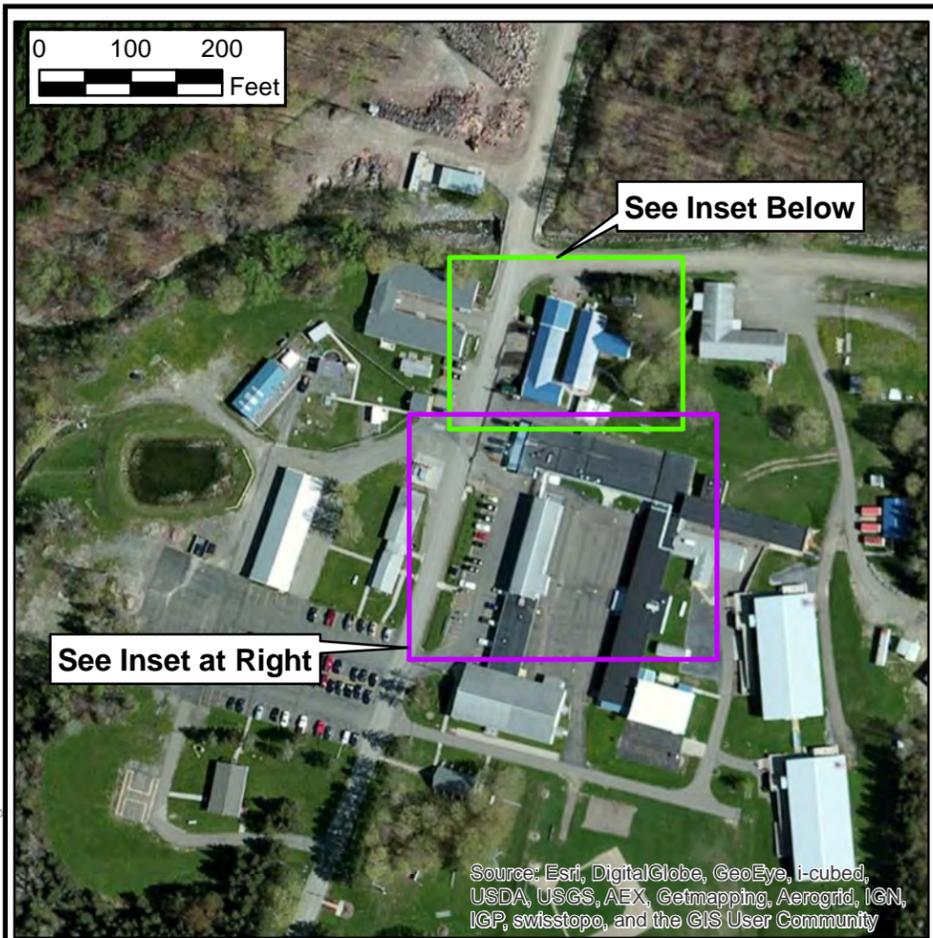


NOT TO SCALE

REVISIONS	NO.		DATE	
DESIGNED BY:	MEW		DRAWN BY:	BOB
ISSUE DATE:	10/30/2014		PROJECT NUMBER:	NEW7442.P2
			SHEET SIZE:	11"x17"
			REVIEWED BY:	CEL

OVERALL SITE PLAN
 MONTEREY SHOCK
 INCARCERATION FACILITY
 MONTEREY, NEW YORK

FIGURE
2



- Legend**
- Test Boring
 - Current UST
 - UST graves observed during GPR
 - Former UST locations identified during Phase I
 - Former UST location identified during Phase II

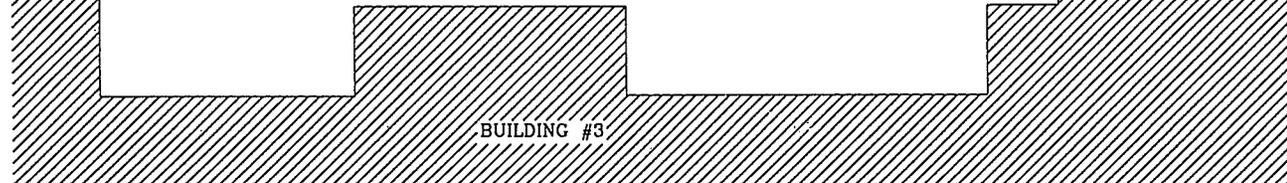
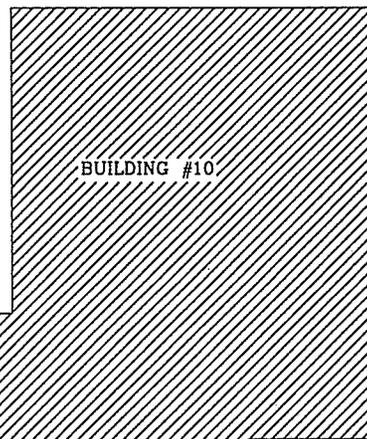
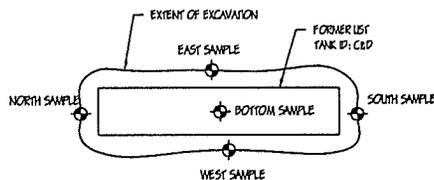
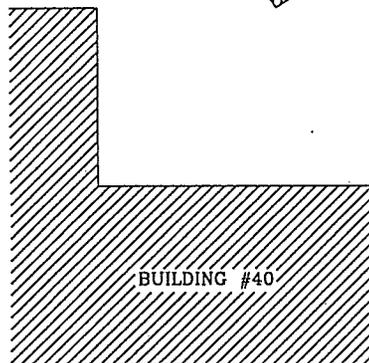
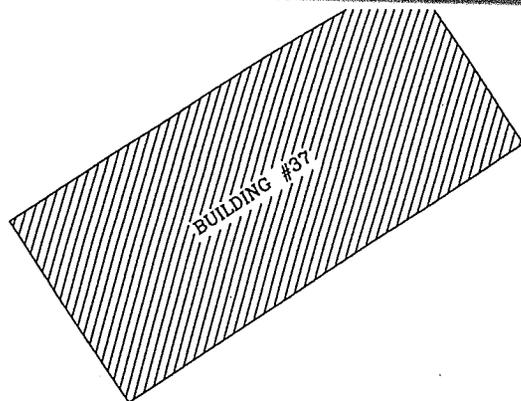


Revisions	No.	Date

Designed By:	MEW	Drawn By:	BOB	Reviewed By:	CEL
Issue Date:	10/30/2014	Project No:	NEW7442.P2	Sheet Size:	11X17

Locations of Test Borings and Tanks
 Monterey Shock Correctional Facility
 Monterey, New York

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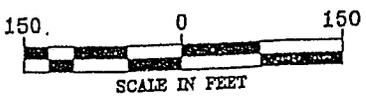
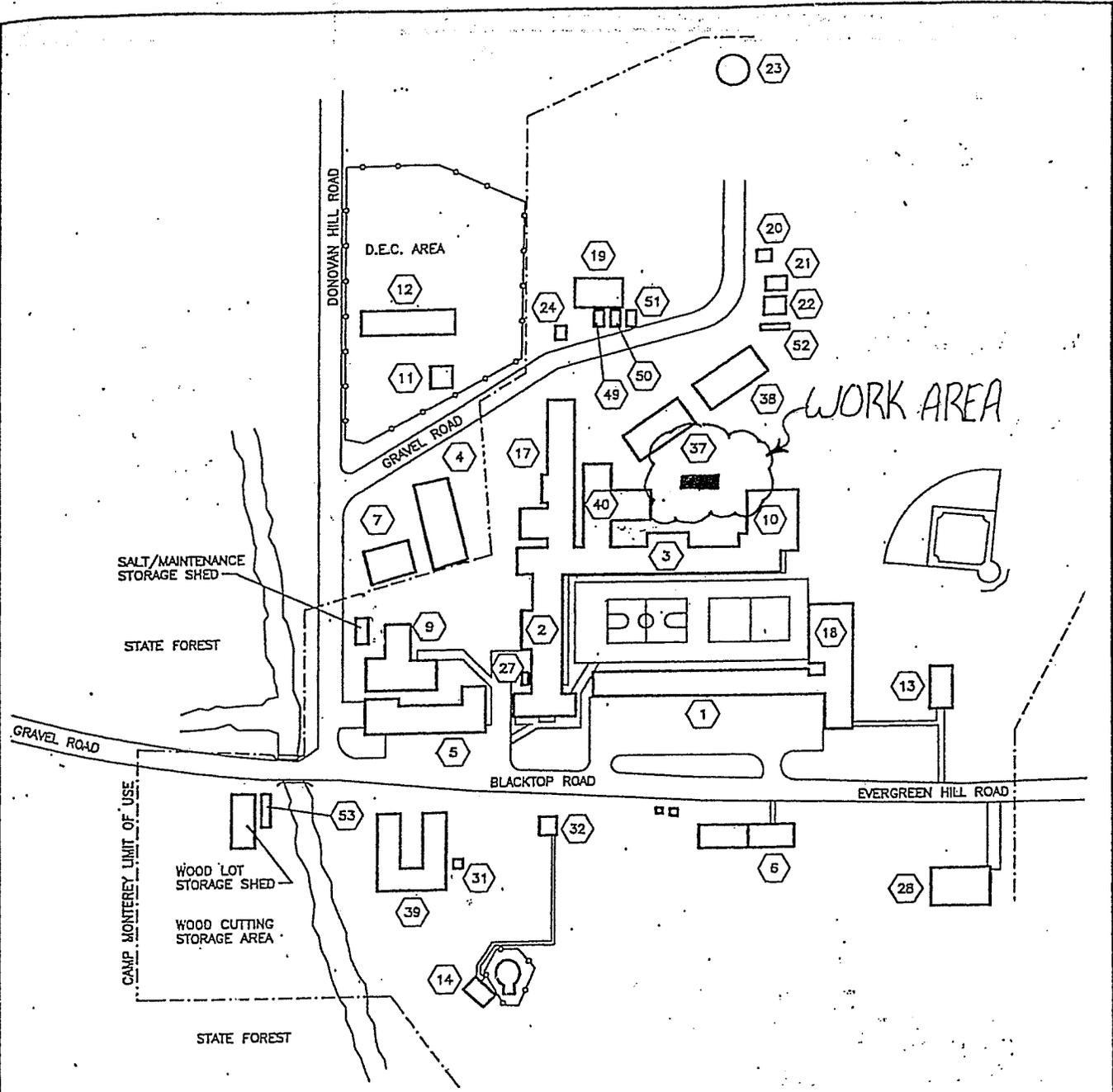


The Tyree Organization, Ltd.


 Tel: (203) 740-8200 125 Commerce Street Fax: (203) 740-8201
 Brookfield, CT 06804

BUILDING #37
TANK CLOSURE - SAMPLING PLAN
 MONTEREY S.I.C.F.
 2150 EVERGREEN HILL ROAD

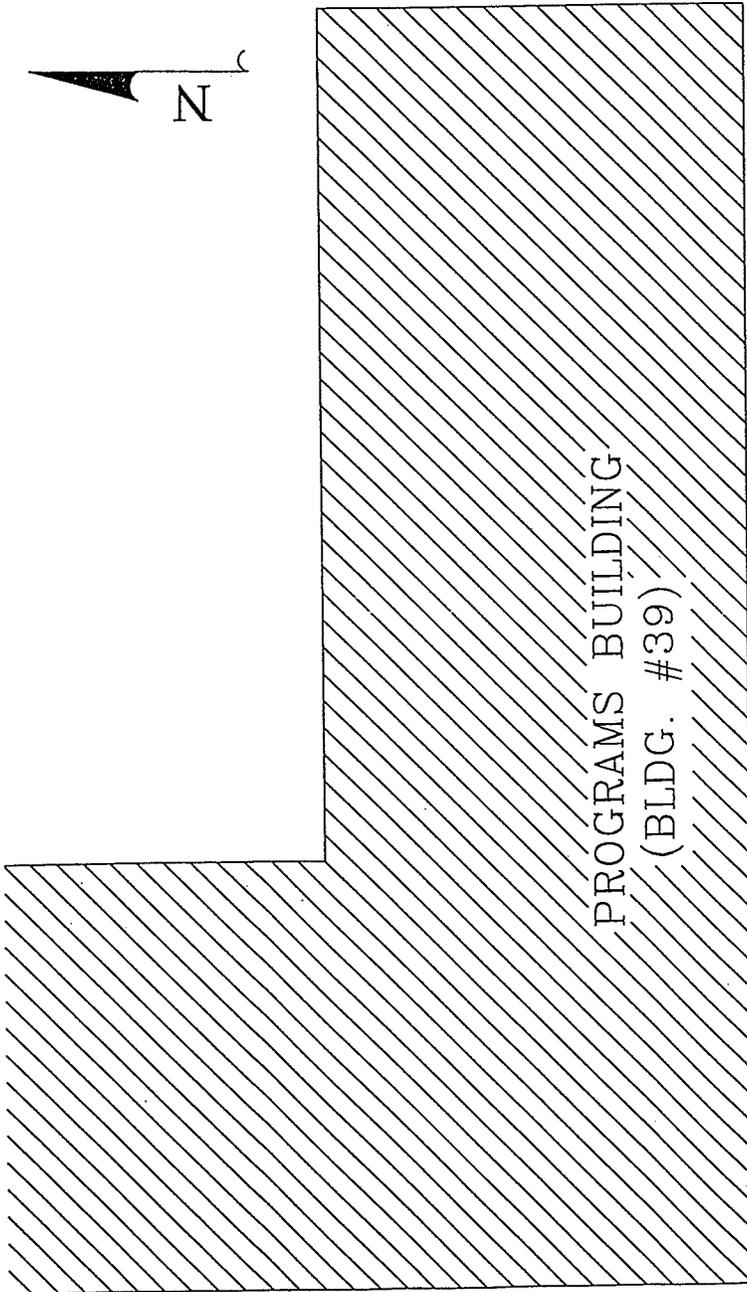
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CHECKED BY:
DATE: JULY, 2002
SCALE: 1" = 20'-0"
DRAWING NO: GD 1



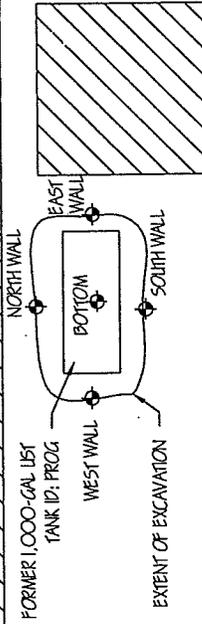
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SHEET TITLE <i>FUEL TANK REMOVAL WORK MONTEREY SHOCK INCARCERATION FACILITY</i>	DRAWN BY <i>REN</i>	APPROVED BY <i>REN</i>	FILE NO. <i>SK-1B</i>
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EVERGREEN HILL ROAD



PROGRAMS BUILDING
(BLDG. #39)



The Tyree Organization, Ltd.

Tel: (203) 740-8200

Fax: (203) 740-8201



125 Commerce Street
Brookfield, CT 06804

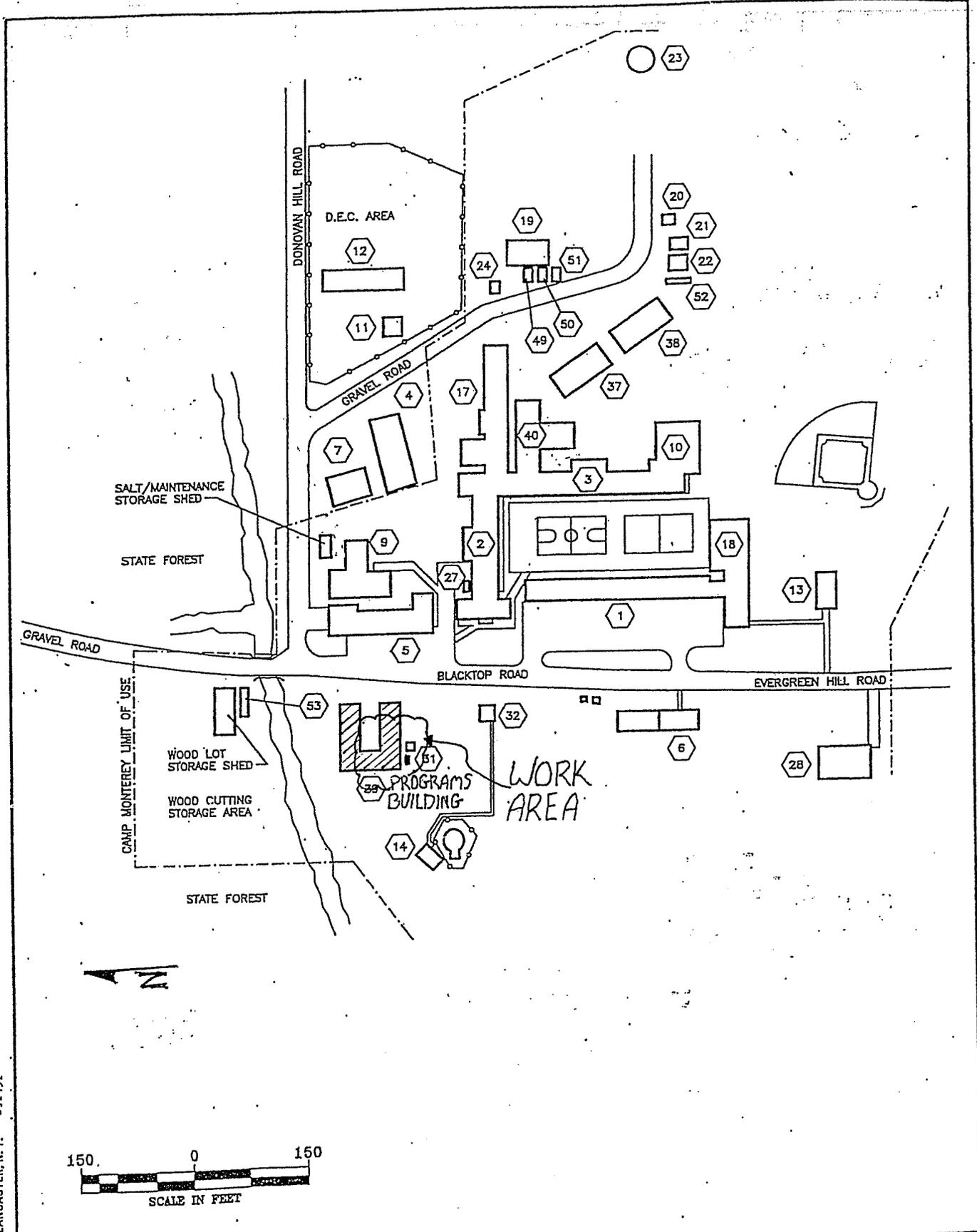
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DRAWN BY:
CHECKED BY:
DATE: JUN 1, 2002
SCALE: 1"=20'-0"
DRAWING NO:

BUILDING #39
TANK CLOSURE - SAMPLING PLAN

MONTEREY S.I.C.F.

2150 EVERGREEN HILL ROAD
BEAVER DAMS, NEW YORK

SP-1



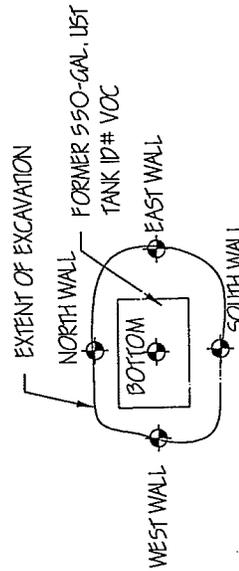
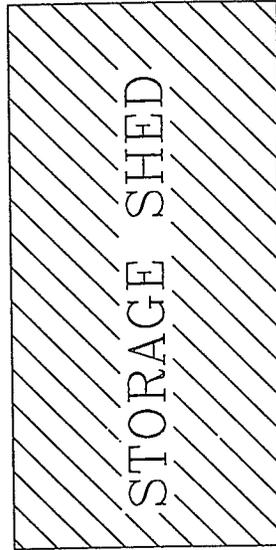
OGLIVIE PRESS LANCASTER, N. Y. 091432

SHEET TITLE FUEL TANK REMOVAL WORK MONTEREY SHOCK INCARCERATION FACILITY	DRAWN BY REN	APPROVED BY REN	FILE NO. SK-1B
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00880 BEAVER DAMS, NY

Proj. No. 04-321T

DONOVAN HILL ROAD



The Tyree Organization, Ltd.

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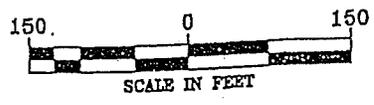
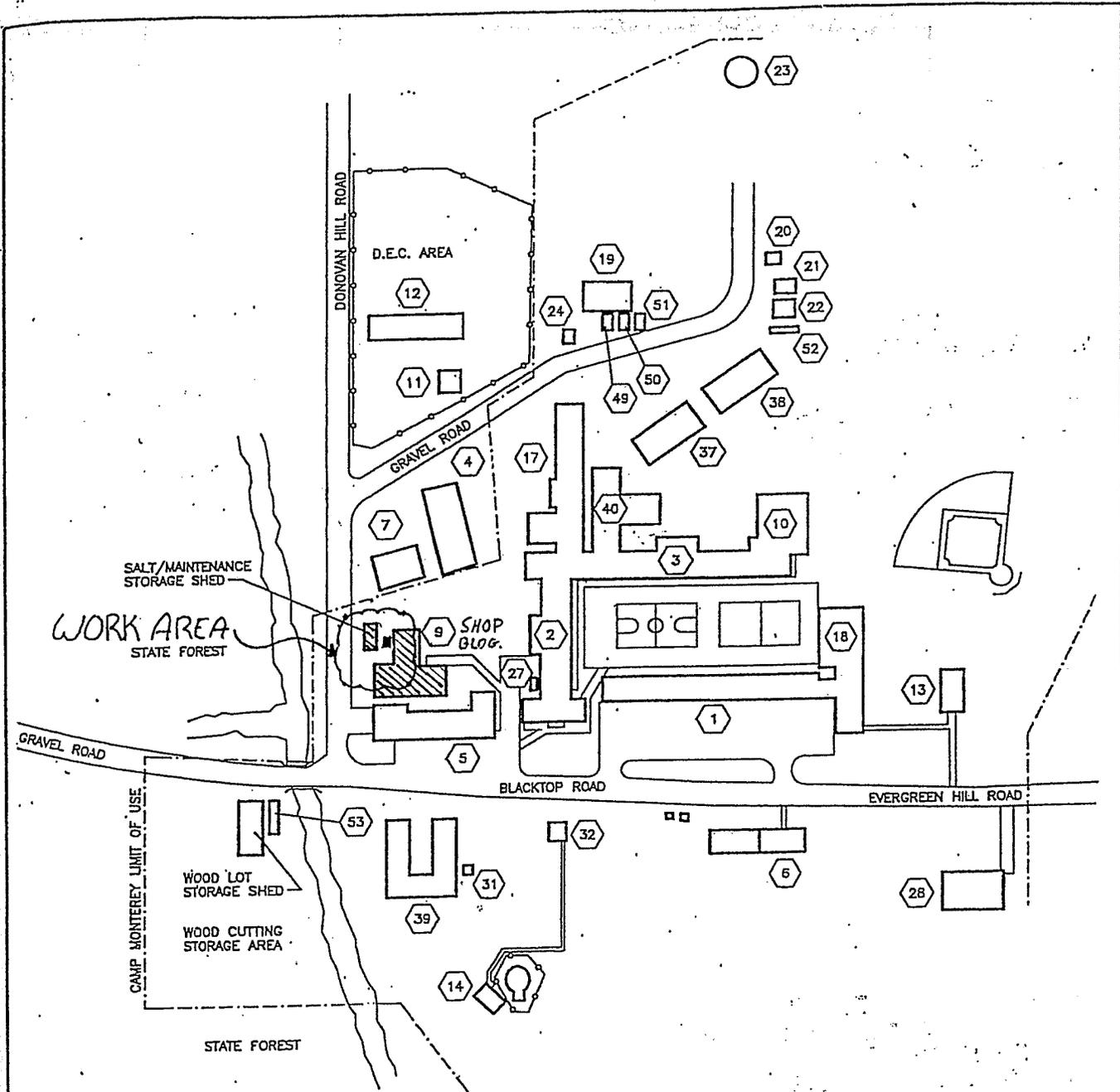


125 Commerce Street
Brookfield, CT 06804

PROJECT NO:	
DRAWN BY:	
CHECKED BY:	
DATE:	JULY 2002
SCALE:	1/4"=20'-0"
DRAWING NO:	SP-1

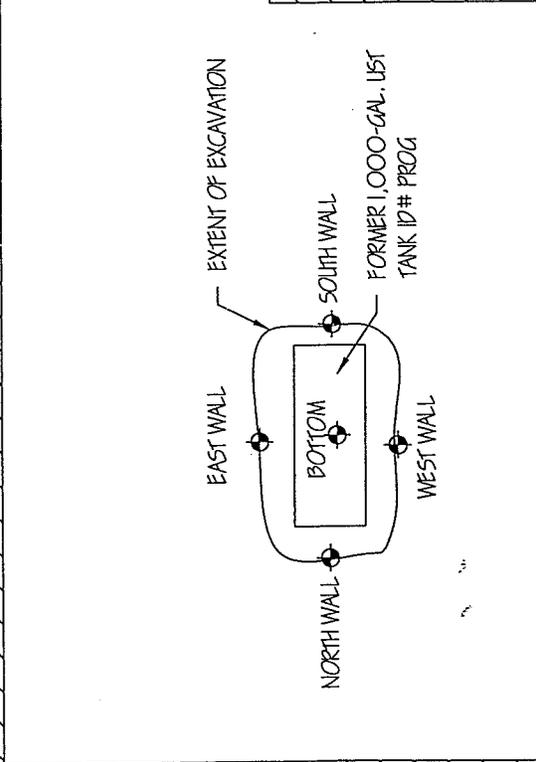
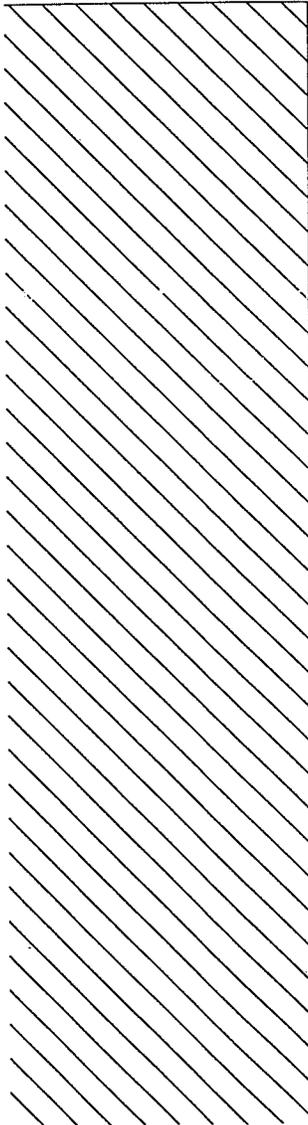
BUILDING #9
TANK CLOSURE - SAMPLING PLAN

MONTEREY S.I.C.F.
2150 EVERGREEN HILL ROAD
BEAVER DAMS, NEW YORK

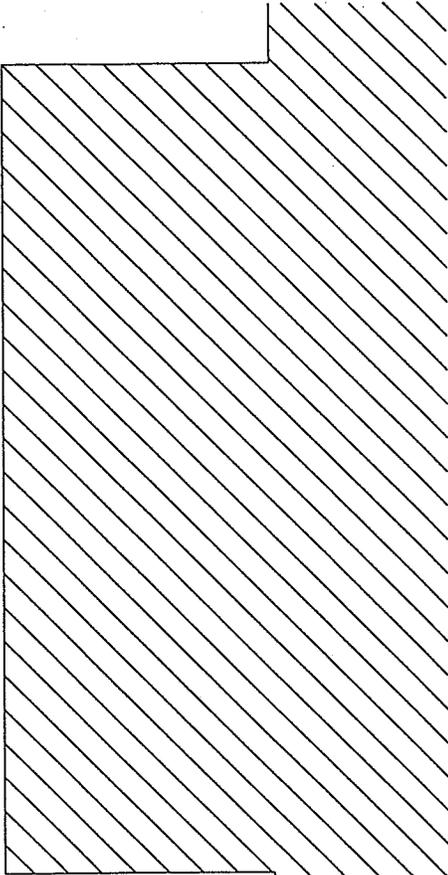


OGILVIE PLESS LANCASTER, N. Y. 091132

SHEET TITLE <i>FUEL TANK REMOVAL WORK</i> <i>MONTEREY SHOCK INCARCERATION FACILITY</i>	DRAWN BY <i>REN</i>	APPROVED BY <i>REN</i>	FILE NO. <i>SK-1B</i>
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BUILDING #40



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125 Commerce Street
Brookfield, CT 06804

BUILDING #40
TANK CLOSURE - SAMPLING PLAN

MONTEREY S.I.C.F.

2150 EVERGREEN HILL ROAD
BEAVER DAMS, NEW YORK

PROJECT NO:

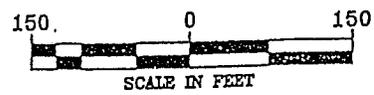
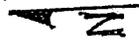
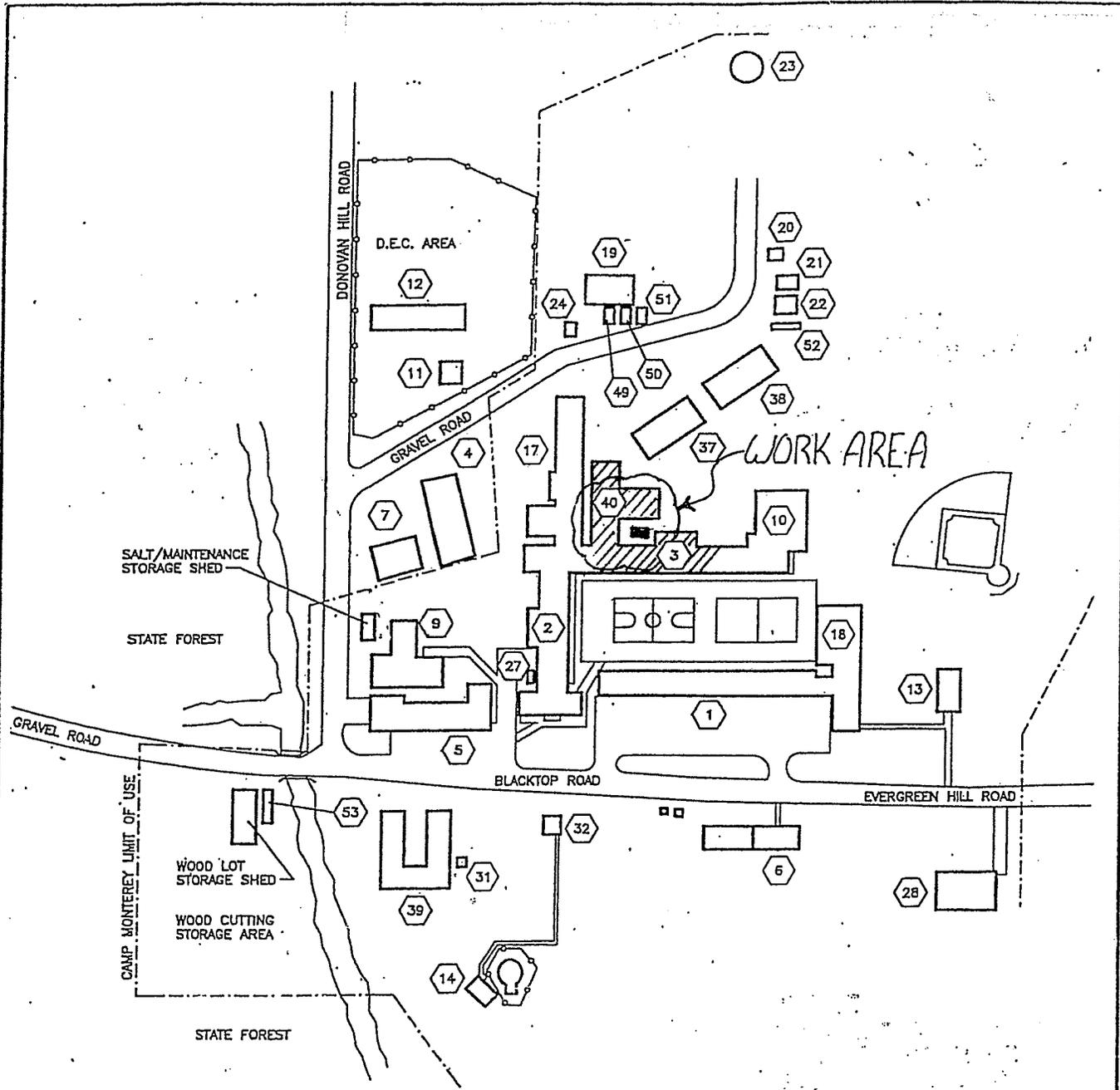
DRAWN BY:

CHECKED BY:

DATE: JUN 2002

SCALE: 1"=20'-0"

DRAWING NO: SP-1



OGILVIE PRESS LANCASTER, N. Y. 091432

SHEET TITLE <i>FUEL TANK REMOVAL WORK MONTEREY SHOCK INCARCERATION FACILITY</i>	DRAWN BY <i>REN</i>	APPROVED BY <i>REN</i>	FILE NO. <i>SK-1B</i>
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**ATTACHMENT #2
TABLES (HISTORIC AND CURRENT)**

Building 37
Table 1
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Volatile Compounds

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS-4)	Bottom (SS-5)	DEC Soil Cleanup Objective
MTBE	ND	ND	ND	1.8	Not listed	NE
Benzene	ND	ND	ND	ND	Not listed	60
Toluene	ND	ND	ND	ND	Not listed	1500
Ethylbenzene	ND	ND	ND	ND	Not listed	NE
MTBE,m,p Xylene	ND	ND	ND	ND	Not listed	1200
o-Xylene	ND	ND	ND	ND	Not listed	1200
Xylene's total	ND	ND	ND	ND	Not listed	1200
Isopropylbenzene	ND	ND	ND	ND	Not listed	5000
n-Propylbenzene	ND	ND	ND	ND	Not listed	14000
1,3,5 TMB	ND	ND	ND	ND	Not listed	3300
1,2,4 TMB	ND	ND	ND	ND	Not listed	1300
Sec-Butylbenzene	ND	ND	ND	ND	Not listed	2500
p-Isopropyltoluene	ND	ND	ND	ND	Not listed	NE
n-Butylbenzene	ND	ND	ND	ND	Not listed	18000
Tert-Butylbenzene	ND	ND	ND	ND	Not listed	1100
Napthalene	ND	ND	ND	ND	Not listed	13000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Detected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 37
Table 2
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Base Neutrals

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS-4)	Bottom (SS-5)	DEC Soil Cleanup Objective
Napthalene	ND	ND	ND	ND	ND	13000
Acenapthene	ND	ND	ND	84.7	ND	400
Fluorene	ND	ND	ND	90.6	ND	1000
Phananthrene	ND	ND	ND	788	ND	1000
Anthracene	ND	ND	ND	158	ND	1000
Flouranthene	ND	ND	ND	866	ND	1000
Pyrene	ND	ND	ND	670	ND	1000
Benzo(a)anthracene	ND	ND	ND	398	ND	224
Chrysene	ND	ND	ND	398	ND	400
Benzo(b)fluoranthene	ND	ND	ND	262	ND	1100
Benzo(k)flouranthene	ND	ND	ND	273	ND	1100
Benzo(a)pyrene	ND	ND	ND	300	ND	61
Indento(1,2,3-cd)pyrene	ND	ND	ND	172	ND	4400
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	14
Benzo(g,h,l)perylene	ND	ND	ND	149	ND	5000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Dected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 39
Table 3
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Volatile Compounds

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS-4)	Bottom (SS-5)	DEC Soil Cleanup Objective
MTBE	ND	4.9	5.4	5.3	8.1	NE
Benzene	ND	ND	ND	ND	ND	60
Toluene	ND	ND	ND	ND	ND	1500
Ethylbenzene	ND	ND	ND	ND	ND	NE
MTBE,m,p Xylene	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	1200
Xylene's total	ND	ND	ND	ND	ND	1200
Isopropylbenzene	ND	ND	ND	ND	ND	5000
n-Propylbenzene	ND	ND	0.9	ND	ND	14000
1,3,5 TMB	ND	ND	3.2	ND	ND	3300
1,2,4 TMB	ND	ND	17.8	ND	ND	1300
Sec-Butylbenzene	ND	ND	ND	ND	ND	2500
p-Isopropyltoluene	ND	ND	ND	ND	ND	NE
n-Butylbenzene	ND	ND	ND	ND	ND	18000
Tert-Butylbenzene	ND	ND	ND	ND	ND	1100
Napthalene	ND	ND	37.6	ND	ND	13000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Detected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 39
Table 4
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Base Neutrals

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS- 4)	Bottom (SS- 5)	DEC Soil Cleanup Objective
Napthalene	16.5	ND	36.2	ND	ND	13000
Acenaphthene	37.8	ND	11.7	ND	ND	400
Fluorene	117	ND	16.6	ND	ND	1000
Phananthrene	1260	8.8	117	27.4	40.6	1000
Anthracene	339	ND	26.4	ND	ND	1000
Flouranthene	2590	16.7	154	39.4	53.6	1000
Pyrene	2000	15.2	121	31	46.4	1000
Benzo(a)anthracene	1450	8.8	72.4	19.3	23.8	224
Chrysene	1340	11.8	68.3	20.8	29.1	400
Benzo(b)fluoranthene	954	8	46.4	14.2	17.2	1100
Benzo(k)flouranthene	1140	ND	50.2	12.8	22.6	1100
Benzo(a)pyrene	1110	8	52.4	14.2	ND	61
Indento(1,2,3-cd)pyrene	586	ND	27.9	8.4	ND	4400
Dibenzo(a,h)anthracene	152	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	412	ND	24.5	ND	ND	5000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Dected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 9
Table 5
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Volatile Compounds

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS- 4)	Bottom (SS- 5)	DEC Soil Cleanup Objective
MTBE	39.1	6.1	27.7	7.8	ND	NE
Benzene	ND	ND	ND	ND	ND	60
Toluene	ND	ND	ND	ND	ND	1500
Ethylbenzene	ND	ND	ND	ND	ND	NE
MTBE,m,p Xylene	ND	ND	ND	ND	ND	1200
o-Xylene	ND	ND	ND	ND	ND	1200
Xylene's total	ND	ND	ND	ND	ND	1200
Isopropylbenzene	ND	ND	ND	ND	ND	5000
n-Propylbenzene	ND	ND	ND	ND	ND	14000
1,3,5 TMB	ND	ND	3.5	ND	ND	3300
1,2,4 TMB	ND	ND	4.9	ND	ND	1300
Sec-Butylbenzene	ND	ND	ND	ND	ND	2500
p-Isopropyltoluene	ND	ND	ND	ND	ND	NE
n-Butylbenzene	ND	ND	ND	ND	ND	18000
Tert-Butylbenzene	ND	ND	ND	ND	ND	1100
Napthalene	ND	ND	42.2	ND	ND	13000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Detected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 9
Table 6
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Base Neutrals

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS-4)	Bottom (SS-5)	DEC Soil Cleanup Objective
Napthalene	ND	ND	ND	ND	ND	13000
Acenaphthene	13.5	ND	14	ND	ND	400
Fluorene	ND	ND	35.4	ND	9.9	1000
Phananthrene	72.5	21.2	148	ND	55.2	1000
Anthracene	ND	ND	23.4	ND	12.6	1000
Flouranthene	25.1	29.9	58.4	ND	75.3	1000
Pyrene	ND	22.7	48.6	ND	56	1000
Benzo(a)anthracene	ND	ND	19.6	ND	30.8	224
Chrysene	ND	12.9	18.9	ND	31.2	400
Benzo(b)fluoranthene	ND	ND	ND	ND	20.5	1100
Benzo(k)flouranthene	ND	ND	ND	ND	26	1100
Benzo(a)pyrene	ND	ND	ND	ND	25.2	61
Indento(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	4400
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	5000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Dected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 40
Table 7
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Volatile Compounds

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS- 4)	Bottom (SS- 5)	DEC Soil Cleanup Objective
MTBE	5.4	ND	6.2	7.2	5.6	NE
Benzene	ND	ND	ND	ND	ND	60
Toluene	1.4	ND	6.7	2.6	1.3	1500
Ethylbenzene	ND	ND	ND	ND	ND	NE
MTBE,m,p Xylene	ND	ND	4.1	1.5	1	1200
o-Xylene	ND	ND	1.1	ND	ND	1200
Xylene's total	ND	ND	5.2	1.5	1	1200
Isopropylbenzene	ND	ND	ND	ND	ND	5000
n-Propylbenzene	ND	ND	ND	ND	ND	14000
1,3,5 TMB	ND	ND	0.86	ND	ND	3300
1,2,4 TMB	ND	ND	2.5	1.4	1.1	1300
Sec-Butylbenzene	ND	ND	ND	ND	ND	2500
p-Isopropyltoluene	ND	ND	ND	ND	ND	NE
n-Butylbenzene	ND	ND	ND	ND	ND	18000
Tert-Butylbenzene	ND	ND	ND	ND	ND	1100
Napthalene	ND	ND	ND	ND	ND	13000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Detected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Building 9
Table 8
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Base Neutrals

Compound	North Sidewall (SS-1)	East Sidewall (SS-2)	South Sidewall (SS-3)	West Sidewall (SS-4)	Bottom (SS-5)	DEC Soil Cleanup Objective
Napthalene	ND	ND	ND	116	ND	13000
Acenaphthene	10.2	ND	ND	219	19.3	400
Fluorene	9.1	ND	ND	292	15.1	1000
Phananthrene	122	ND	ND	2540	152	1000
Anthracene	23	ND	ND	522	35.2	1000
Flouranthene	208	ND	ND	2750	197	1000
Pyrene	164	ND	ND	2040	142	1000
Benzo(a)anthracene	96.9	ND	ND	1160	89.7	224
Chrysene	101	ND	ND	1240	83.9	400
Benzo(b)fluoranthene	69.8	ND	ND	769	54.9	1100
Benzo(k)flouranthene	81.1	ND	ND	825	65.4	1100
Benzo(a)pyrene	81.1	ND	ND	959	65.7	61
Indento(1,2,3-cd)pyrene	ND	ND	ND	520	36.7	4400
Dibenzo(a,h)anthracene	ND	ND	ND	131	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	447	20.1	5000

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Dected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Emergency Generator Tank
Table 9
Post-Excavation Soil Sample Analytical Results
EPA 8021 Stars Memo Base Neutrals

Compound	South Wall	East Wall	West Wall	North Wall	Bottom	DEC Soil Cleanup Objective
Acenaphthene	ND	ND	ND	ND	ND	13000
Fluorene	ND	ND	ND	ND	ND	1000
Phenanthrene	ND	ND	ND	ND	ND	1000
Anthracene	ND	ND	ND	ND	ND	1000
Fluoranthene	ND	ND	ND	ND	ND	1000
Pyrene	ND	ND	ND	ND	ND	1000
Benzo(a)anthracene	ND	ND	ND	ND	ND	224
Chrysene	ND	ND	ND	ND	ND	400
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	1100
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	1100
Benzo(a)pyrene	ND	ND	ND	ND	ND	61
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	14
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	5000
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	4400

Notes:

- 1) all results reported as parts per billion (ppb)
- 2) ND: Not Detected Above Method Detection Limit (MDL)
- 3) TAGM 4046

Table-9
Monterey Shock Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York
October 14-16, 2014
Soil Sample Results - Analyzed for VOCs, STARS SVOCs and RCRA 8 Metals (Total)
(Only detected constituents are listed)

Soil Boring (depth in feet)	AOC-1				AOC-2				AOC-3	AOC-4		AOC-5		AOC-6		AOC-7		375-6 SCO - Protection of Public Health Unrestricted	375-6 SCO - Protection of Groundwater	CP-51 Table 2 and 3
	SB-2 (10-11)	SB-3 (8-10)	SB-4 (7-8)	SB-5 (12-13)	SB-11 (5-6)	SB-13 (5-6)	SB-16 (8-9)	SB-20 (10-11)	SB-14 (8-10)	SB-22 (10-11)	SB-23 (14-15)	SB-26 (6-8)	SB-28 (8-9)	SB-31 (12-13)	SB-33 (6-8)					
VOCs (ug/kg)																				
1,2,4-Trimethylbenzene	ND<3.2	ND<3.6	ND<3.3	ND<3.1	ND<3.7	ND<34.9	ND<139	128 JL, D50	ND<146	ND<3.4	ND<3.1	ND<3.5	ND<4.0	ND<3.8	ND<3.4	3,600	3,600	3,600		
1,2-Dichlorobenzene	ND<2.5	ND<2.8	ND<2.5	ND<2.4	ND<2.8	31.3 JL, D 50	ND<106	ND<26.3	ND<112	ND<2.6	ND<2.3	ND<2.7	ND<3.1	ND<2.9	ND<2.6	1,100	1,100	NE		
Acetone	ND<27.8	ND<31.0	ND<28.1	27.7 JL	ND<31.4	ND<300	ND<1190	ND<297	ND<1260	ND<29.5	ND<26.2	ND<30.2	ND<34.6	ND<32.6	ND<29.1	50	50	NE		
Ethylbenzene	ND<1.8	ND<2.0	ND<1.8	ND<1.7	ND<2.0	ND<19.1	1,010 D200	141 JL, D50	944 D200	ND<1.9	ND<1.7	ND<1.9	ND<2.2	ND<2.1	ND<1.9	1,000	1,000	1,000		
Isopropylbenzene	ND<4.6	ND<5.1	ND<4.7	ND<4.4	ND<5.2	ND<49.8	1,030 D200	232 D50	810 D200	ND<4.9	ND<4.4	ND<5.0	ND<5.7	ND<5.4	ND<4.8	NE	NE	2,300		
Methylene chloride	4.4 J, O01	3.6 J, O01	ND<3.2	ND<3.1	ND<3.6	ND<34.4	ND<137	ND<33.9	ND<144	ND<3.4	6.7 J, O01	4.0 J, O01	8.6 J, O01	9.8 J, O01	6.7 J, O01	50	50	NE		
n-Butylbenzene	ND<4.3	ND<4.8	ND<4.4	ND<4.2	ND<4.9	ND<46.9	2,100 D200	409 D50	1,730 D200	ND<4.6	ND<4.1	ND<4.7	ND<5.4	ND<5.1	ND<4.6	12,000	NE	12,000		
n-Propylbenzene	ND<2.1	ND<2.4	ND<2.1	ND<2.0	ND<2.4	ND<22.9	1,800 D200	366 D50	1,560 D200	ND<2.2	ND<2.0	ND<2.3	ND<2.6	ND<2.5	ND<2.2	3,900	3,900	3,900		
sec-Butylbenzene	ND<3.4	ND<3.8	ND<3.5	ND<3.3	ND<3.9	ND<36.9	1,970 D200	770 D50	1,580 D200	ND<3.6	ND<3.2	ND<3.7	ND<4.3	ND<4.0	ND<3.6	11,000	11,000	11,000		
STARS SVOCs (ug/kg)																				
1-Methylnaphthalene	ND<40.5	ND<38.8	ND<39.6	ND<39.5	ND<39.3	ND<38.2	11,300 D10	483 D5	10,600 D10	ND<37.8	ND<37.9	ND<38.8	ND<39.9	ND<41.5	ND<37.6	NE	NE	NE		
2-Methylnaphthalene	ND<40.5	ND<38.9	ND<39.7	ND<39.6	ND<39.4	ND<38.3	7,200 D10	ND<190	18,000 D10	ND<37.9	ND<38.0	ND<38.8	ND<40.0	ND<41.6	ND<37.7	NE	NE	NE		
Acenaphthene	ND<40.6	ND<39.0	ND<39.7	ND<39.6	ND<39.5	ND<38.4	1,220 D10	303 J, D5	938 D10	ND<37.9	ND<38.0	ND<38.9	ND<40.1	ND<41.6	ND<37.7	20,000	98,000	20,000		
Anthracene	ND<38.5	ND<37.0	ND<37.7	ND<37.6	ND<37.5	ND<36.4	921 D10	321 J, D5	500 J, D10	ND<36.0	ND<36.1	ND<36.9	ND<38.0	ND<39.5	ND<35.8	100,000	1,000,000	100,000		
Fluorene	ND<40.9	ND<39.3	ND<40.1	ND<39.9	ND<39.8	ND<38.7	2,880 D10	410 D5	1,970 D10	ND<38.2	ND<38.4	ND<39.2	ND<40.4	ND<42.0	ND<38.1	30,000	386,000	30,000		
Phenanthrene	ND<40.0	ND<38.4	ND<39.2	ND<39.1	ND<38.9	ND<37.8	5,560 D10	770 D5	4,020 D10	ND<37.4	ND<37.5	ND<38.4	ND<39.5	ND<41.1	ND<37.2	100,000	1,000,000	100,000		
Pyrene	ND<57.0	ND<54.7	ND<55.8	ND<55.6	ND<55.4	ND<53.9	1,230 D10	428 D5	679 J, D10	ND<53.2	ND<53.4	ND<54.6	ND<56.2	ND<53.0	ND<53.0	100,000	1,000,000	100,000		
RCRA 8 Metals (Total) (mg/kg)																				
Arsenic	10.5	9.64	10.4	10.3	8.12	6.26	12.2	14.1	19.7	10.7	16.6	10.3	7.72	10.9	10.1	13	16	NE		
Barium	130	88.4	117	70.1	109	101	45.1	57.4	59.7	75.7	73.9	70.8	50.4	127	118	350	820	NE		
Cadmium	0.383 J	0.305 J	0.367 J	0.327 J	0.322 J	0.316 J	0.383 J	0.401 J	0.430 J	0.309 J	0.319 J	0.307 J	0.263 J	0.390 J	0.332 J	2.5	7.5	NE		
Chromium	19.8	17.9	19.3	22.4	21.8	18.0	20.8	24.8	26.3	19.4	21.2	19.4	18.0	23.5	17.8	30	41	NE		
Lead	11.7	11.1	12.2	13.1	11.1	10.8	18.5	22.7	26.1	13.0	13.2	12.7	10.9	15.7	15.5	63	450	NE		
Selenium	0.910 J	0.799 J	0.761 J	0.802 J	1.07 J	ND<0.742	0.917 J	0.907 J	0.898 J	0.870 J	0.879 J	0.898 J	0.804 J	1.12 J	0.980 J	3.9	4	NE		
Mercury	0.0032 J	ND<0.0030	0.0266 J	0.0142 J	0.0111 J	0.0124 J	0.0334	0.0197 J	0.0136 J	0.0238 J	0.0167 J	0.0142 J	ND<0.0032	0.0140 J	0.0159 J	0.18	0.73	NE		

Bold Sample Exceeds Unrestricted Objective
Bold Sample Exceeds Protection of Groundwater
Bold Sample Exceeds CP 51 Clean-Up Level
NE Not Established
NA Not Analyzed
ug/kg micrograms per kilogram
mg/kg milligrams per kilogram
ND<xxx Not Detected above laboratory detection limits
STARS SVOCs NYSDEC Spill Technology and Remediation Series Semi-Volatile Organic Compounds
VOCs Volatile Organic Compounds
RCRA Resource Conservation and Recovery Act
O01 This compound is a common laboratory contaminant
J Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
DXXX Data reported from a dilution, dilution factor

Table-10
Monterey Shock Correctional Facility
2150 Evergreen Hill Road
Beaver Dams, New York
October 14-16, 2014
Groundwater Sample Results - Analyzed for VOCs, STARS SVOCs and RCRA 8 Metals (Total)
(Only detected constituents are listed)

Sample ID	AOC-1		AOC-2		AOC-3	AOC-5	NYSDEC Class GA Criteria
	SB-6	SB-8	SB-11	SB-20	SB-21	SB-29	
VOCs (ug/l)							
1,2,4-Trimethylbenzene	ND<0.3	ND<0.3	ND<0.3	0.5 J	ND<0.3	ND<0.3	5
Acetone	8.5 J	4.4 J	7.8 J	ND<3.6	46.1	ND<3.6	50
Benzene	ND<0.3	ND<0.3	ND<0.3	0.6 J	ND<0.3	ND<0.3	1
Ethylbenzene	ND<0.4	ND<0.4	ND<0.4	9.6	ND<0.4	ND<0.4	5
Isopropylbenzene	ND<0.5	ND<0.5	ND<0.5	12.8	ND<0.5	ND<0.5	5
Naphthalene	0.5 J	ND<0.5	0.7 J	1.4	0.5 J	ND<0.5	10
n-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	4.8	0.5 J	ND<0.4	5
n-Propylbenzene	ND<0.4	ND<0.4	ND<0.4	13.4	ND<0.4	ND<0.4	5
sec-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	12.6	0.9 J	ND<0.4	5
tert-Butylbenzene	ND<0.4	ND<0.4	ND<0.4	0.5 J	ND<0.4	ND<0.4	5
Toluene	ND<0.3	ND<0.3	0.4 J	0.4 J	ND<0.3	ND<0.3	5
STARS SVOCs (ug/l)							
1-Methylnaphthalene	ND<1.08	ND<1.03	ND<11.7 , D10	32.6	ND<11.7 , D	ND<0.978	NE
Acenaphthene	ND<1.21	ND<1.16	ND<13.2 , D10	12.9	62.9 D10	ND<1.10	5.3
Anthracene	ND<1.21	ND<1.16	ND<13.2 , D10	11.7	66.9 D10	ND<1.10	50
Benzo (a) anthracene	ND<1.37	ND<1.31	42.9 J, D10	ND<1.49	ND<14.9 D10	ND<1.24	0.002
Benzo (a) pyrene	ND<1.01	ND<0.963	51.4 J, D10	ND<1.10	ND<11.0 D10	ND<0.912	ND
Benzo (b) fluoranthene	ND<0.980	ND<0.937	70.9 D10	ND<1.07	ND<10.7 D10	ND<0.889	0.002
Benzo (g,h,i) perylene	ND<1.71	ND<1.64	33.6 J, D10	ND<1.86	ND<18.6 D10	ND<1.55	No detectable
Benzo (k) fluoranthene	ND<1.28	ND<1.23	26.2 J, D10	ND<1.40	ND<14.0 D10	ND<1.16	0.002
Chrysene	ND<1.31	ND<1.25	50.2 J, D10	ND<1.42	ND<14.2 D10	ND<1.19	0.002
Fluoranthene	ND<1.35	ND<1.29	113 D10	2.48 J	ND<14.6 D10	ND<1.22	50
Fluorene	ND<1.44	ND<1.37	ND<15.6 D10	19.8	162 D10	ND<1.30	50
Indeno (1,2,3-cd) pyrene	ND<2.00	ND<1.92	38.5 J, D10	ND<2.18	ND<21.8 D10	ND<1.82	0.002
Phenanthrene	ND<1.05	ND<1.01	44.1 J, D10	35.7	110 D10	ND<0.953	50
Pyrene	ND<3.10	ND<2.96	91.6 D10	15.8	93.4 D10	ND<2.81	50
8 RCRA Metals (Total) (mg/l)							
Mercury	ND<0.00008	ND<0.00008	0.00179 R01, J	0.00158 R01, J	0.0102 R01	ND<0.00157 R01	0.0007
Arsenic	0.0219	0.0545	1.11 R01	2.03 R01	2.37 R01	0.528 R01	0.05
Barium	1.90	2.98	18.5 R01	36.4 R01	43.6 R01	5.44 R01	1
Chromium	0.0768	0.240	4.21 R01	2.92 R01	6.95 R01	1.47 R01	0.05
Lead	0.0454	0.121	2.34 R01	3.42 R01	4.88 R01	1.06 R01	0.025

Bold Sample Exceeds GA Criteria
NE Not Established
NA Not Analyzed
ug/l micrograms per liter
mg/l milligrams per liter
ND<xxx Not Detected above laboratory detection limits
STARS SVOCs NYSDEC Spill Technology and Remediation Series Semi-Volatile Organic Compounds
VOCs Volatile Organic Compounds
RCRA Resource Conservation and Recovery Act
O01 This compound is a common laboratory contaminant
J Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
R01 the Reporting Limit has been raised to account for matrix interference
D Data reported from a dilution, dilution factor

ATTACHMENT #3
HRP's GENERAL LIMITATIONS

LIMITATIONS ON WORK PRODUCT

All work product and reports provided by HRP in connection with the performance of any phase of Environmental Site Assessments, and any services related to remedial and post-remedial action, including all work performed under HRP's Terms & Conditions and any follow-up work is subject to the following limitations.

- A. The observations described in the Project Report(s) are made under the stated conditions. The conclusions presented in the Report(s) are based solely upon the indicated services, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.
- B. In preparing Project Reports, HRP relies on certain representations made and information provided by federal, state and local officials, the Client and other parties referenced in the Project Reports, and on information contained in the files of federal, state and/or local agencies made available to HRP, at the time of the Project. To the extent that such information and files are missing, incomplete or not provided to HRP, HRP is not responsible. Although there may be some degree of overlap in the information provided by these various sources, HRP does not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of the Project. If the Client determines that information provided or made available to HRP from any source is incorrect or inaccurate, the Client should promptly notify HRP, whereupon HRP will issue a corrected Project Report.
- C. Observations are made of the site and of structures on the site as indicated within the Project Report(s). Where access to portions of the site or to structures on the site is unavailable or limited, HRP renders no opinion as to the presence of potential contamination by hazardous substances, wastes or petroleum and chemical products and wastes. In addition, HRP renders no opinion as to the presence of indirect evidence relating to potential contamination by hazardous substances, wastes or petroleum and chemical products or wastes where direct observation of the interior walls, floors, or ceilings of a structure on a site is obstructed by objects or coverings on or over these surfaces.
- D. Unless otherwise specified in the Project Report(s), HRP does not perform testing or analyses to determine the presence or concentration of asbestos or poly-chlorinated biphenyls (PCBs), lead paint, urea formaldehyde foam insulation (UFFI), wetlands, regulatory compliance, cultural and historical risks, industrial hygiene, health & safety, ecological resources, endangered species, indoor air quality, high voltage power lines, or radon at the site or in the environment of the site. When HRP is contracted to perform asbestos or lead paint testing, planning or related services, HRP assumes no responsibility for the implementation or enforcement of the procedures, work practices, or other control methods recommended, required, or mentioned in the Project Report(s), unless HRP has been specifically contracted to implement or supervise such actions, in which case the associated contractual documents will define our scope and responsibilities.
- E. The purpose of the Project Report(s) is to assess the physical characteristics of the subject site with respect to the potential presence in the site soil, ground water or surface water environment of contamination by hazardous substances, hazardous waste or petroleum and chemical products and wastes. HRP has not confirmed the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.

- F. If sampling is included in the scope of the Project, the conclusions and recommendations contained in the Project Report(s) are based in part upon the data obtained from a limited number of soil, ground water, or surface water samples obtained from widely spaced surface or subsurface explorations. The nature and extent of variations between these locations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to re-evaluate the conclusions and recommendations of the Project Report(s).
- G. If water level readings are made in test pits, borings, and/or observation wells; these observations are made at the times and under the conditions stated on the test pit or boring logs or in the Project Report(s). However, it must be noted that fluctuations in the level of ground water may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data may alter the basis of conclusions and recommendations presented in the Project Report(s).
- H. If the conclusions and recommendations contained in the Project Report(s) are based, in part, upon various types of chemical analyses, then the conclusions and recommendations are contingent upon the validity of such data. The analyses are performed for specific parameters and additional chemical constituents not searched for during the current study may be present in soil, ground water, or surface water at the site. Where such analyses have been conducted by an out-side laboratory, HRP has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests. The data (if obtained) are reviewed and interpretations made in the Project Report(s). If indicated within the Project Report(s), some of these data may be preliminary "screening" level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data may alter the basis of the conclusions and recommendations presented in the Project Report(s).
- I. It is recommended that HRP be retained to provide further hydrogeologic and engineering services during the conduct of further exploration or the construction and/or implementation of any remedial measures recommended in HRP's Project Report(s). This is to allow HRP and the Client to observe consistency with the concepts and recommendations contained therein, and to allow the development of changes to the remedial program in the event that subsurface conditions or other conditions differ from those anticipated.
- J. The services provided by HRP do not include legal advice. Legal counsel should be consulted regarding interpretation of relevant federal, state and local laws.

APPENDIX F

HRP's Site-Specific Limitations/Deviations & General Limitations

SITE SPECIFIC LIMITATIONS & DEVIATIONS

As noted in HRP's field activities, the Geoprobe encountered refusal at multiple locations prior to intersecting the water table. As a result, seven of the eight groundwater samples proposed in the original scope of work were not able to be collected. Additionally, the depths of several soil borings/samples were limited due to the multiple refusals of the Geoprobe. Also, one shallow groundwater sample proposed in the leach field area was not able to be collected due to the lack of percolating water in the leach field.

LIMITATIONS ON WORK PRODUCT

All work product and reports provided by HRP in connection with the performance of any phase of Environmental Site Assessments, and any services related to remedial and post-remedial action, including all work performed under HRP's Terms & Conditions and any follow-up work is subject to the following limitations.

1. The observations described in the Project Report(s) are made under the stated conditions. The conclusions presented in the Report(s) are based solely upon the indicated services, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.
2. In preparing Project Reports, HRP relies on certain representations made and information provided by federal, state and local officials, the Client and other parties referenced in the Project Reports, and on information contained in the files of federal, state and/or local agencies made available to HRP, at the time of the Project. To the extent that such information and files are missing, incomplete or not provided to HRP, HRP is not responsible. Although there may be some degree of overlap in the information provided by these various sources, HRP does not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of the Project. If the Client determines that information provided or made available to HRP from any source is incorrect or inaccurate, the Client should promptly notify HRP, whereupon HRP will issue a corrected Project Report.
3. Observations are made of the site and of structures on the site as indicated within the Project Report(s). Where access to portions of the site or to structures on the site is unavailable or limited, HRP renders no opinion as to the presence of potential contamination by hazardous substances, wastes or petroleum and chemical products and wastes. In addition, HRP renders no opinion as to the presence of indirect evidence relating to potential contamination by hazardous substances, wastes or petroleum and chemical products or wastes where direct observation of the interior walls, floors, or ceilings of a structure on a site is obstructed by objects or coverings on or over these surfaces.
4. Unless otherwise specified in the Project Report(s), HRP does not perform testing or analyses to determine the presence or concentration of asbestos or polychlorinated biphenyls (PCBs), lead paint, urea formaldehyde foam insulation (UFFI), wetlands, regulatory compliance, cultural and historical risks, industrial hygiene, health & safety, ecological resources, endangered species, indoor air quality, high voltage power lines, or radon at the site or in the environment of the site.

5. The purpose of the Project Report(s) is to assess the physical characteristics of the subject site with respect to the potential presence in the site soil, ground water or surface water environment of contamination by hazardous substances, hazardous waste or petroleum and chemical products and wastes. HRP has not confirmed the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.
6. If sampling is included in the scope of the Project, the conclusions and recommendations contained in the Project Report(s) are based in part upon the data obtained from a limited number of soil, ground water, or surface water samples obtained from widely spaced surface or subsurface explorations. The nature and extent of variations between these locations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to re-evaluate the conclusions and recommendations of the Project Report(s).
7. If water level readings are made in test pits, borings, and/or observation wells; these observations are made at the times and under the conditions stated on the test pit or boring logs or in the Project Report(s). However, it must be noted that fluctuations in the level of ground water may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data may alter the basis of conclusions and recommendations presented in the Project Report(s).
8. If the conclusions and recommendations contained in the Project Report(s) are based, in part, upon various types of chemical analyses, then the conclusions and recommendations are contingent upon the validity of such data. The analyses are performed for specific parameters and additional chemical constituents not searched for during the current study may be present in soil, ground water, or surface water at the site. Where such analyses have been conducted by an outside laboratory, HRP has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests. The data (if obtained) are reviewed and interpretations made in the Project Report(s). If indicated within the Project Report(s), some of these data may be preliminary "screening" level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data may alter the basis of the conclusions and recommendations presented in the Project Report(s).
9. It is recommended that HRP be retained to provide further hydrogeologic and engineering services during the conduct of further exploration or the construction and/or implementation of any remedial measures recommended in HRP's Project Report(s). This is to allow HRP and the Client to observe consistency with the concepts and recommendations contained therein, and to allow the development of changes to the remedial program in the event that subsurface conditions or other conditions differ from those anticipated.
10. The services provided by HRP do not include legal advice. Legal counsel should be consulted regarding interpretation of relevant federal, state and local laws