



**UST Closure Report
621 Boston Post Road
Old Saybrook, CT**

**September 6, 2019
G19-040**

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Signature page

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I. INTRODUCTION

This report summarizes the results of a UST Closure at 621 Boston Post Road, Old Saybrook, CT, undertaken by Cambrian Geological, LLC (Cambrian) on behalf of Adelman's Service, Inc.

A. Site Characteristics

The site is used as a gasoline station and auto repair center.

Groundwater at the site has been assigned to class GA. Groundwater at the site is expected to flow to the southeast, toward North Cove.

Sensitive groundwater receptors include the potable well reportedly present on the site and North Cove. Additional potable wells may be present in the downgradient direction from the site.

The nearest surface water is North Cove, which is located approximately 2,730 feet southeast from the site. North Cove is of surface water class SB. Class SB surface water is saline water (salty or brackish) from which shellfish may be harvested if processed prior to consumption. It may be suitable for a fish, shellfish, and wildlife habitat, for recreational use, and as a source of industrial process water. Discharges permitted to waters of class SB include cooling waters and discharges from wastewater treatment facilities.

No identified wetlands are present on the site.

II. CLOSURE OF THE USTs

A. Type of Closure

Six USTs were removed from the site between July 8 and July 11, 2019. Table 1 summarizes data for the USTs.

Table 1. UST Data.						
Name	Capacity, gal	Content	Tank Grave	Grave Location	Install date	Depth to top of tank
A1	3000	diesel	1	south of building	Sep-88	3'
B2	8000	gasoline	1	south of building	Sep-88	2'
C3	8000	gasoline	1	south of building	Sep-88	2'
D4	8000	gasoline	1	south of building	Sep-88	2'
E5	550	#2 oil	2	southwest of building	Sep-88	1'
F6	550	waste oil	3	east of building	Sep-88	2'

B. Overview

Table 2 summarizes the contractors, personnel, and disposal facilities used in closure of the USTs. Representatives of the Old Saybrook Fire Department and Building Department were present on the site on July 10; names of these representatives were not received.

Table 2. Entities Associated with the UST Closure	
Post	Personnel
Geologist / Engineer	Nathan Hicks
DEEP Representative	Tim Baird
Excavating Contractor	J.R. Morgan, Inc.

On July 10, 2019, Cambrian Geological (Cambrian) visited the site for the purpose of supervising the removal of several Underground Storage Tanks (USTs). At this

time, the heating oil UST (E5), waste oil UST (F6) and diesel UST (A1) had already been removed by John R. Morgan Inc. of Lisbon, CT, and transported to Calamari Brothers in Deep River, CT. Cambrian, the fire marshal representative, and the DEEP all informed J.R. Morgan that in the future the environmental consultant should be on the site prior to and during removal of all USTs.

At the onset of excavation activities, Cambrian discovered that the PID brought to the site had a high baseline reading. To determine if the PID was still functioning properly and could be relied upon to detect gasoline despite the higher than normal baseline, it was suggested that Cambrian test it in a vehicle's gas tank to gauge its response. The PID was immediately responsive and jumped to a reading of several hundred before it was removed, indicating it would still be reliable to detect gasoline in the soil surrounding the USTs. Eventually the baseline reading stabilized at 1.0 ppm and remained so, except for occasional typical fluctuations, throughout the day.

Due to limited site geometry, only the one gasoline UST (B2) was able to be removed on July 10, 2019, following which backfilling was required to make room for the excavator to allow access to the remaining two gasoline USTs (C3 and D4). The remaining two gasoline USTs (C3 and D4) were removed on July 11, 2019. The grave for the heating oil UST (E5), which had been partially backfilled for safety reasons, was re-excavated to depth and samples were collected on July 10, 2019; the same was true for the waste oil UST (F6) on July 11, 2019.

Following removal of the USTs, test pits were installed several feet below the bottom level to confirm that no contamination, historic or otherwise, was visible beneath the level of the USTs. No visual or olfactory evidence of contamination

was noted in the graves. No measurable response was noted with the PID from any of the sample locations.

All of the USTs from grave 1 were stored on asphalt north of the excavation prior to removal from the site to Calamari Brothers in Deep River, CT. No holes, evidence of corrosion, or damage to the USTs was noticed upon inspection of them following removal. For the USTs removed prior to Cambrian's arrival to the site, John Morgan reports that no holes or evidence of corrosion were noted on either of the tanks. No evidence was observed in the graves of these tanks that would suggest otherwise.

Six USTs were removed from the site, from three separate tank graves. The three gasoline USTs and one diesel UST (A1, B2, C3 and D4) were removed from tank grave 1 located south of the building, the heating oil UST (E5) was removed from tank grave 2 located west of the building, and the waste oil UST (F6) was removed from tank grave 3 located southeast of the building.

C. Survey Methods and Errors

The locations of USTs, extent of excavation, sampling points, and other features of interest were surveyed concurrently with excavation using a surveyor's total station. The total station combines laser geodimetry with digital measurement of angles and allows measurements of location and elevation which are exceptionally precise. The instrument is precise enough to meet or exceed standards for those incorporated in class A-2 or V-2 surveys.

Attaining the standards specified in class A-2 surveys for locations requires employing techniques which substantially increase the time required to complete the survey. Cambrian recognizes that virtually no environmental project requires

that level of precision in locating points. Hence, we have employed several less accurate techniques which result in a considerable saving of time and still produce results accurate enough for all environmental purposes. We estimate that our locations are accurate to within a foot (laterally), and our elevations are accurate to within 0.01 feet.

D. Nature of Release

No release from the UST system was identified. A release of PAHs is present at sample CS-25 in tank grave 3, but since PAHs have multiple possible sources and since no ETPH has been detected and metal concentrations are not indicative of a release there, we believe the PAHs are due to another mechanism, possibly wood ash.

E. Extent of Soil Contamination

No soil contaminated at concentrations above the DEC's or PMC's was identified.

F. Post-excavation Sampling

Samples CS-1 through CS-28 were collected and analyzed.

A total of eighteen samples (CS-1 through CS-18), ten sidewall and eight bottom samples, were collected from tank grave 1; five samples (CS-19 through CS-23), four sidewall samples and one bottom sample, were collected from tank grave 2; and the remainder (CS-24 through CS-28), four sidewall samples and one bottom sample, were collected from tank grave 3.

G. Potential Vapor Receptors

No release of VOCs from the UST system was identified so no potential vapor receptors are known or suspected to exist.

H. Potential Extent of Groundwater Contamination

No release from the UST system was identified, and PAHs are known to have high to extremely high retardation coefficients, so no groundwater contamination is known or suspected to exist.

III. LABORATORY ANALYSIS OF SOIL SAMPLES

A. Choice of Samples to be Analyzed

Samples were chosen for analysis based on the location of the sample relative to potential or identified sources of contamination and to other samples chosen for analysis. Samples were collected and analyzed for two purposes: to demonstrate that all contaminated soil had been removed, or to characterize contaminated soil that remains in place.

B. Parameters Determined

Parameters determined for the diesel UST included ETPH and VOCs for all samples and one for PAHs; parameters for the gasoline USTs included VOCs; parameters for the heating oil UST included ETPH for all samples and one for VOCs and PAHs; and parameters determined for the waste oil UST included ETPH, SVOCs, VOCs, PCBs, and total RCRA 8 metals for all.

C. Results

Tables 3 through 5 summarize data for each of the three tank graves.

Table 3. Analytical Data for Tank Grave 1.							
Sample	I/C-DEC	GA-PMC	CS-1	CS-2	CS-3	CS-4	CS-5
Depth			9'	8'-9'	8'-9'	8'-9'	8'-9'
Date			7/10/2019	7/10/2019	7/10/2019	7/10/2019	7/10/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ETPH	2500	500	ND< 51	ND< 51	ND< 52	ND< 52	ND< 52
1,2,4-Trimethylbenzene	1000	7	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
1,3,5-Trimethylbenzene	1000	7	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
2-Isopropyltoluene	ne	ne	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Benzene	200	0.02	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Ethylbenzene	1000	10.1	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Toluene	1000	20	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Total xylenes	1000	19.5	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Isopropylbenzene	1000	0.6	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Naphthalene	2500	5.6	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
Propylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
4-Isopropyltoluene	1000	0.6	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
s-Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005
t-Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006	ND< 0.005

Table 3. Analytical Data for Tank Grave 1 ctd.							
Sample	I/C-DEC	GA-PMC	CS-6	CS-7	CS-8	CS-9	CS-10
Depth			10'-11'	11'	11'	10'-11'	10'-11'
Date			7/10/2019	7/10/2019	7/10/2019	7/10/2019	7/11/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ETPH	2500	500					
1,2,4-Trimethylbenzene	1000	7	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
1,3,5-Trimethylbenzene	1000	7	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
2-Isopropyltoluene	ne	ne	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Benzene	200	0.02	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Ethylbenzene	1000	10.1	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Toluene	1000	20	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Total xylenes	1000	19.5	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Isopropylbenzene	1000	0.6	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Naphthalene	2500	5.6	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Butylbenzene	1000	1.4	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
Propylbenzene	1000	1.4	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
4-Isopropyltoluene	1000	0.6	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
s-Butylbenzene	1000	1.4	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005
t-Butylbenzene	1000	1.4	ND< 0.011	ND< 0.007	ND< 0.005	ND< 0.007	ND< 0.005

Table 3. Analytical Data for Tank Grave 1 ctd.							
Sample	I/C- DEC	GA- PMC	CS-11	CS-12	CS-13	CS-14	CS-15
Depth			11'	11'	10'-11'	10'-11'	11'
Date			7/11/2019	7/11/2019	7/11/2019	7/11/2019	7/11/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ETPH	2500	500					
1,2,4-Trimethylbenzene	1000	7	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
1,3,5-Trimethylbenzene	1000	7	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
2-Isopropyltoluene	ne	ne	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Benzene	200	0.02	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Ethylbenzene	1000	10.1	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Toluene	1000	20	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Total xylenes	1000	19.5	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Isopropylbenzene	1000	0.6	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Naphthalene	2500	5.6	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Butylbenzene	1000	1.4	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
Propylbenzene	1000	1.4	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
4-Isopropyltoluene	1000	0.6	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
s-Butylbenzene	1000	1.4	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006
t-Butylbenzene	1000	1.4	ND< 0.008	ND< 0.006	ND< 0.006	ND< 0.007	ND< 0.006

Table 3. Analytical Data for Tank Grave 1 ctd					
Sample	I/C- DEC	GA- PMC	CS-16	CS-17	CS-18
Depth			11'	10'-11'	10'-11'
Date			7/11/2019	7/11/2019	7/11/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ETPH	2500	500			
1,2,4-Trimethylbenzene	1000	7	ND< 0.010	ND< 0.009	ND< 0.005
1,3,5-Trimethylbenzene	1000	7	ND< 0.010	ND< 0.009	ND< 0.005
2-Isopropyltoluene	ne	ne	ND< 0.010	ND< 0.009	ND< 0.005
Benzene	200	0.02	ND< 0.010	ND< 0.009	ND< 0.005
Ethylbenzene	1000	10.1	ND< 0.010	ND< 0.009	ND< 0.005
Toluene	1000	20	ND< 0.010	ND< 0.009	ND< 0.005
Total xylenes	1000	19.5	ND< 0.010	ND< 0.009	ND< 0.005
Isopropylbenzene	1000	0.6	ND< 0.010	ND< 0.009	ND< 0.005
Naphthalene	2500	5.6	ND< 0.010	ND< 0.009	ND< 0.005
Butylbenzene	1000	1.4	ND< 0.010	ND< 0.009	ND< 0.005
Propylbenzene	1000	1.4	ND< 0.010	ND< 0.009	ND< 0.005
4-Isopropyltoluene	1000	0.6	ND< 0.010	ND< 0.009	ND< 0.005
s-Butylbenzene	1000	1.4	ND< 0.010	ND< 0.009	ND< 0.005
t-Butylbenzene	1000	1.4	ND< 0.010	ND< 0.009	ND< 0.005

Table 4. Analytical Data for Tank Grave 2.							
Sample	I/C-DEC	GA-PMC	CS-19	CS-20	CS-21	CS-22	CS-23
Depth			4'-5'	4'-5'	4'-5'	4'-5'	5'
Date			7/10/2019	7/10/2019	7/10/2019	7/10/2019	7/10/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ETPH	2500	500	ND< 52	ND< 52	ND< 52	ND< 51	ND< 50
1,2,4-Trimethylbenzene	1000	7					ND< 0.005
1,3,5-Trimethylbenzene	1000	7					ND< 0.005
2-Isopropyltoluene	ne	ne					ND< 0.005
Benzene	200	0.02					ND< 0.005
Ethylbenzene	1000	10.1					ND< 0.005
Isopropylbenzene	1000	0.6					ND< 0.005
Naphthalene	2500	5.6					ND< 0.005
Butylbenzene	1000	1.4					ND< 0.005
Propylbenzene	1000	1.4					ND< 0.005
4-Isopropyltoluene	1000	0.6					ND< 0.005
s-Butylbenzene	1000	1.4					ND< 0.005
t-Butylbenzene	1000	1.4					ND< 0.005
Toluene	1000	20					ND< 0.005
Total xylenes	1000	19.5					ND< 0.005
2-Methylnaphthalene	2500	0.98					ND< 0.23
Acenaphthene	2500	8.4					ND< 0.23
Acenaphthylene	2500	8.4					ND< 0.23
Anthracene	2500	40					ND< 0.23
Benzo(a)anthracene	7.8	1					ND< 0.23
Benzo(a)pyrene	1	1					ND< 0.23
Benzo(b)fluoranthene	7.8	1					ND< 0.23
Benzo(ghi)perylene	2500	4.2					ND< 0.23
Benzo(k)fluoranthene	78	1					ND< 0.23
Carbazole	290	1					ND< 0.23
Chrysene	780	1					ND< 0.23
Dibenzo(a,h)anthracene	1	1					ND< 0.23
Fluoranthene	2500	5.6					ND< 0.23
Fluorene	2500	5.6					ND< 0.23
indeno(123-Cd)pyrene	7.8	1					ND< 0.23
Phenanthrene	2500	4					ND< 0.23
Pyrene	2500	4					ND< 0.23

Table 5. Analytical Data for Tank Grave 3.							
Sample	I/C- DEC	GA- PMC	CS-24	CS-25	CS-26	CS-27	CS-28
Depth			5'-6'	5'-6'	5'-6'	5'-6'	6'
Date			7/11/2019	7/11/2019	7/11/2019	7/11/2019	7/11/2019
units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total arsenic	10	ne	1.74	2.3	0.93	ND< 0.63	1.78
Total barium	140000	ne	21.4	24.6	32	28.5	24.2
Total cadmium	1000	ne	ND< 0.37	ND< 0.36	ND< 0.35	0.34	ND< 0.38
Total chromium	ne	ne	7.11	9.91	8.06	6.73	5.65
Total lead	1000	ne	1.84	18.1	23.8	5.8	6.06
Total mercury	610	ne	ND< 0.03	ND< 0.03	ND< 0.03	ND< 0.03	ND< 0.03
Total selenium	10000	ne	ND< 1.5	ND< 1.4	ND< 1.4	ND< 1.3	ND< 1.5
Total silver	10000	ne	ND< 0.37	ND< 0.36	ND< 0.35	ND< 0.31	ND< 0.38
ETPH	2500	500	ND< 52	ND< 52	ND< 260	ND< 260	ND< 53
PCBs	10	ne	ND< 0.34	ND< 0.34	ND< 0.34	ND< 0.34	ND< 0.36
1,2,4-Trimethylbenzene	1000	7	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
1,3,5-Trimethylbenzene	1000	7	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
2-Isopropyltoluene	ne	ne	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Benzene	200	0.02	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Ethylbenzene	1000	10.1	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Isopropylbenzene	1000	0.6	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Naphthalene	2500	5.6	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Propylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
4-Isopropyltoluene	1000	0.6	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
s-Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
t-Butylbenzene	1000	1.4	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Toluene	1000	20	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
Total xylenes	1000	19.5	ND< 0.006	ND< 0.006	ND< 0.012	ND< 0.007	ND< 0.009
2-Methylnaphthalene	2500	0.98	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Acenaphthene	2500	8.4	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Acenaphthylene	2500	8.4	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Anthracene	2500	40	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Benzo(a)anthracene	7.8	1	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Benzo(a)pyrene	1	1	ND< 0.24	0.28	ND< 0.24	ND< 0.24	ND< 0.25
Benzo(b)fluoranthene	7.8	1	ND< 0.24	0.26	ND< 0.24	ND< 0.24	ND< 0.25
Benzo(ghi)perylene	2500	4.2	ND< 0.24	0.27	ND< 0.24	ND< 0.24	ND< 0.25
Benzo(k)fluoranthene	78	1	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Carbazole	290	1	ND< 0.20	ND< 0.20	ND< 0.20	ND< 0.20	ND< 0.20
Chrysene	780	1	ND< 0.24	0.26	ND< 0.24	ND< 0.24	ND< 0.25
Dibenzo(a,h)anthracene	1	1	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Fluoranthene	2500	5.6	ND< 0.24	0.53	ND< 0.24	ND< 0.24	ND< 0.25
Fluorene	2500	5.6	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
indeno(123-Cd)pyrene	7.8	1	ND< 0.24	0.31	ND< 0.24	ND< 0.24	ND< 0.25
Phenanthrene	2500	4	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.24	ND< 0.25
Pyrene	2500	4	ND< 0.24	0.43	ND< 0.24	ND< 0.24	ND< 0.25

IV. CONNECTICUT REGULATORY GUIDELINES

The CTDEEP has established guidelines and substance-specific numerical criteria for remedial actions performed at “Establishment” sites, as defined in Sec. 22a-134 of the RCSA, and for sites undergoing voluntary remediation under Sec. 22a-133x or 133y. These standards are known as the Remediation Standard Regulations (RSRs, §22a-133k-1 through -3). Although the RSR criteria actually apply only to Establishments, they are the industry standard of comparison for all sites in Connecticut. Cambrian has compared the analytical results of soil and groundwater samples to the criteria specified in the RSRs as guidance for determining which areas of contamination may require future remedial actions, additional assessment, or monitoring.

A. Direct Exposure Criteria

The Direct Exposure Criteria (DECs) are standards that protect human health. They are calculated under the assumption that residents or workers will accidentally ingest a small quantity of soil on a daily basis. The DECs are the concentrations below which no adverse affect to human health is expected. DECs apply to soil at depths shallower than 15 feet, and may not apply to soil beneath buildings or other permanent structures.

B. Pollutant Mobility Criteria

Groundwater is protected from contamination by comparing contaminant concentrations in soil with the Pollutant Mobility Criteria (PMCs). Because some substances dissolve with more difficulty than some others, it is necessary in some cases to perform an SPLP extraction on the soil sample. Metals and PCBs must be analyzed in SPLP extracts to compare their concentrations with the PMCs. VOCs may be compared directly, since VOCs are almost all moderately soluble. PMCs

apply to soil above the high or low water table, depending on the groundwater classification of the site (GA or GB, respectively).

C. Comparison of Analyzed Samples With Standards

None of the analyzed samples exceeded applicable standards.

V. CONCLUSIONS AND RECOMMENDATIONS

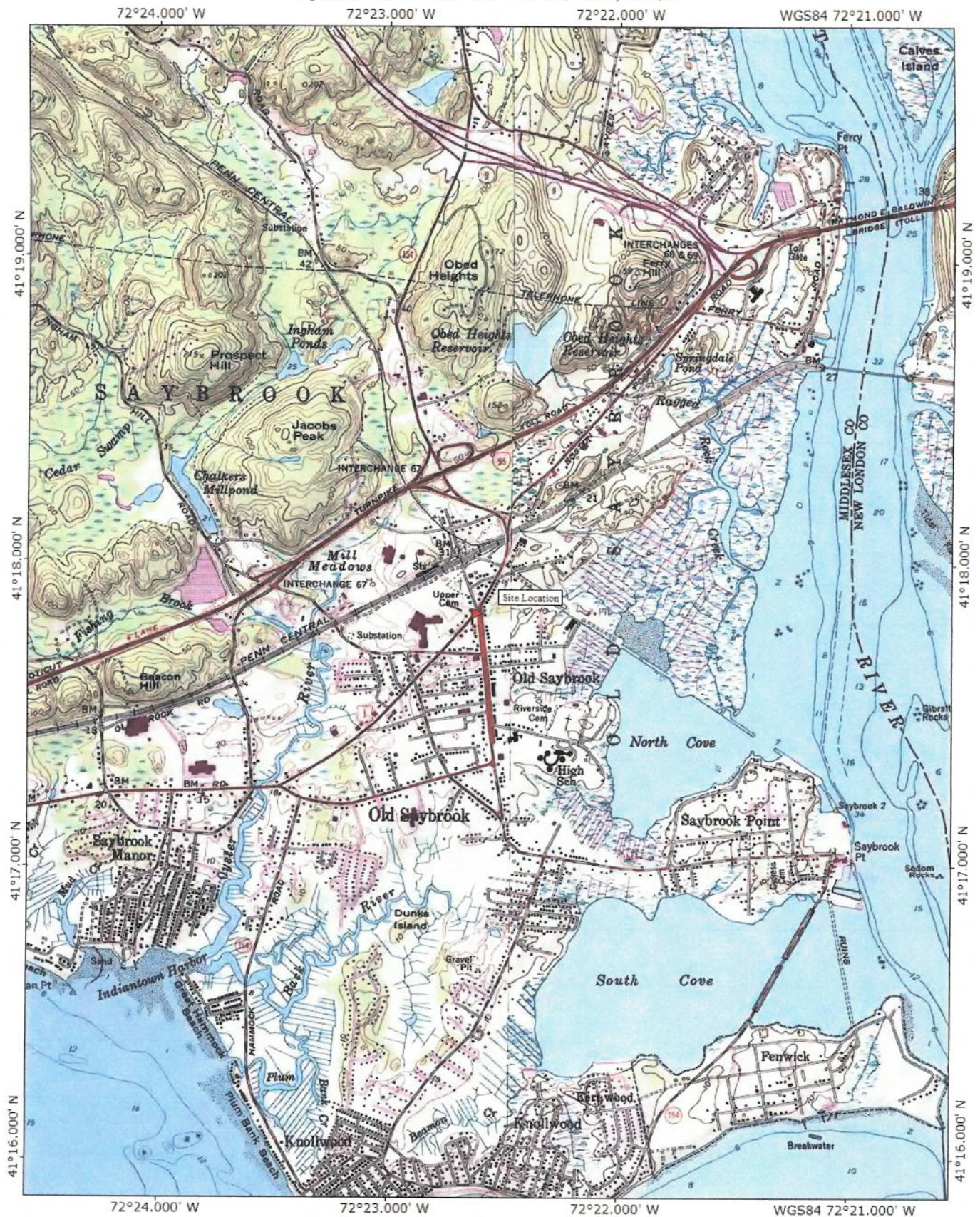
Cambrian has completed a UST Closure at 621 Boston Post Road, Old Saybrook, CT, Connecticut.

No evidence was observed during excavation of the UST that would suggest the presence of material released from the UST system. PAHs were present in one sample at concentrations below the DEC's and PMCs, but since no ETPH or VOCs were detected and since metal concentrations were not indicative of a release, another explanation for the presence of PAHs must be preferred.

Cambrian understands that the piping associated with the former USTs will be removed at some point in the near future. To ensure proper closure of the UST system, samples will be required beneath the dispensers, at junctions or joints, and otherwise every ten feet along the length of the piping. Under this understanding, no other work is recommended at this time.

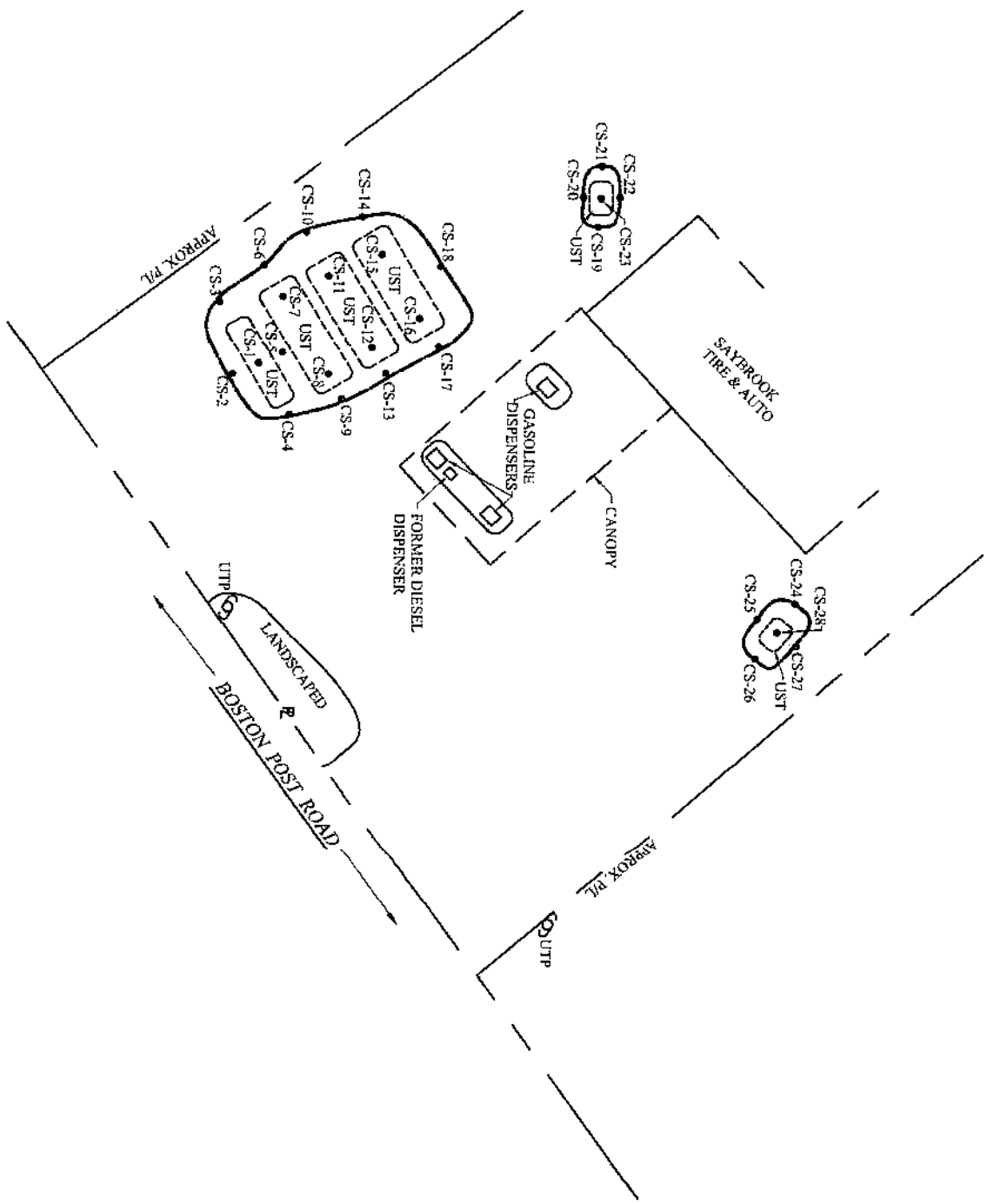
FIGURES

Fig. 1. Site Location. 621 Boston Post Rd., Old Saybrook, CT





- LEGEND**
- UTP - UTILITY POLE
 - UST - UNDERGROUND STOR. TANK
 - PL - PROPERTY LINE
 - CS - CORE SAMPLE



 CAMIRIAN GEOLOGICAL, LLC 339 Fish Rock Road Southbury, Connecticut 06488 Phone No. (203) 264-0607 FAX No. (203) 405-1189	
SCALE: 1" = 30'	DATE: 8/1/19
PROJECT NO: G19-040	DESIGNED BY: DENNIS MACCASHIE
	DRAWN BY: S. CATTICCIO
621 BOSTON ROAD ROAD ...G19-040 OLD SAYBROOK, CONNECTICUT	
SITE PLAN UST CLOSURE	FIGURE NO: 2

PHOTOGRAPHS



UST Closure
621 Boston Post Road
Old Saybrook, CT

Photograph No. 1: State of diesel tank excavation upon Cambrian's arrival to the site.



Photograph No. 2: Side of first gasoline tank exposed in same grave as diesel and other gasoline tanks



Photograph No. 3: Top of first gasoline tank exposed



UST Closure
621 Boston Post Road
Old Saybrook, CT

Photograph No. 4: First gasoline tank being removed from grave



Photograph No. 5: Gasoline tank staged on asphalt following removal



Photograph No. 6: Heating oil tank grave partially backfilled prior to sampling



UST Closure
621 Boston Post Road
Old Saybrook, CT

Photograph No. 7: Heating Oil
tank grave backfilled



Photograph No. 8: State of grave 1
at close of day after backfilling



Photograph No. 9: Exposing
second gasoline tank at start of
second day



UST Closure
621 Boston Post Road
Old Saybrook, CT

Photograph No. 10: Removal of second gasoline UST from grave



Photograph No. 11: State of grave following removal of second UST; pea gravel overlying tanks seen falling into excavation; no odor or PID detections in pea gravel



Photograph No. 12: Exposing third gasoline UST; two removed USTs staged on asphalt

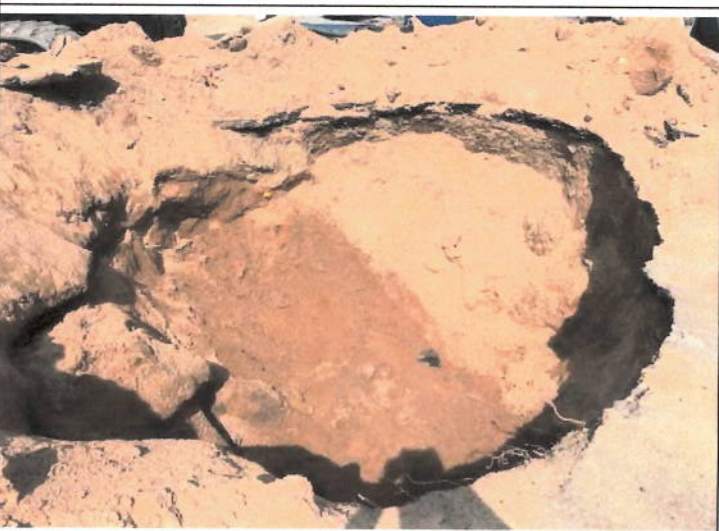


UST Closure
621 Boston Post Road
Old Saybrook, CT

Photograph No. 13: Removing
third gasoline UST



Photograph No. 14: Three gasoline
USTs staged on asphalt, excavation
partially backfilled



Photograph No. 15: Waste oil tank
grave following re-excavation prior
to sampling; some asphalt visible in
excavation

APPENDIX A
Laboratory Analytical Reports



Sunday, July 21, 2019

Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Project ID: 621 BOLTON POST RD
SDG ID: GCD55773
Sample ID#s: CD55773 - CD55800

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

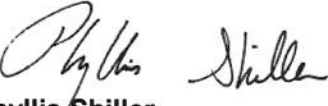
This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,


Phyllis/Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 21, 2019

SDG I.D.: GCD55773

Project ID: 621 BOLTON POST RD

Client Id	Lab Id	Matrix
CS-1 9'	CD55773	SOIL
CS-2 8'-9'	CD55774	SOIL
CS-3 8'-9'	CD55775	SOIL
CS-4 8'-9'	CD55776	SOIL
CS-5 8'-9'	CD55777	SOIL
CS-6 10'-11'	CD55778	SOIL
CS-7 11'	CD55779	SOIL
CS-8 11'	CD55780	SOIL
CS-9 10'-11'	CD55781	SOIL
CS-10 10'-11'	CD55782	SOIL
CS-11 11'	CD55783	SOIL
CS-12 11'	CD55784	SOIL
CS-13 10'-11'	CD55785	SOIL
CS-14 10'-11'	CD55786	SOIL
CS-15 11'	CD55787	SOIL
CS-16 11'	CD55788	SOIL
CS-17 10'-11'	CD55789	SOIL
CS-18 10'-11'	CD55790	SOIL
CS-19 4'-5'	CD55791	SOIL
CS-20 4'-5'	CD55792	SOIL
CS-21 4'-5'	CD55793	SOIL
CS-22 4'-5'	CD55794	SOIL
CS-23 5'	CD55795	SOIL
CS-24 5'-6'	CD55796	SOIL
CS-25 5'-6'	CD55797	SOIL
CS-26 5'-6'	CD55798	SOIL
CS-27 5'-6'	CD55799	SOIL
CS-28 6'	CD55800	SOIL



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 9:45
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55773

Project ID: 621 BOLTON POST RD
Client ID: CS-1 9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/15/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	64		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/14/19	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Fluoranthene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
Pyrene	ND	240	ug/Kg	1	07/16/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	60		%	1	07/16/19	WB	30 - 130 %
% Nitrobenzene-d5	54		%	1	07/16/19	WB	30 - 130 %
% Terphenyl-d14	71		%	1	07/16/19	WB	30 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

Project ID: 621 BOLTON POST RD
Client ID: CS-1 9'

Phoenix I.D.: CD55773

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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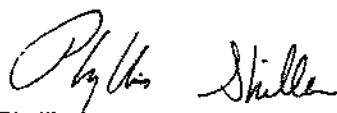
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 9:55
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55774

Project ID: 621 BOLTON POST RD
Client ID: CS-2 8'-9'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	67		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 10:05
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55775

Project ID: 621 BOLTON POST RD
Client ID: CS-3 8'-9'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/ML	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	84		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C

Project ID: 621 BOLTON POST RD
Client ID: CS-3 8'-9'

Phoenix I.D.: CD55775

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 10:15
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55776

Project ID: 621 BOLTON POST RD
Client ID: CS-4 8'-9'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	65		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C

Project ID: 621 BOLTON POST RD
Client ID: CS-4 8'-9'

Phoenix I.D.: CD55776

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

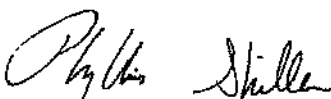
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 10:25
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55777

Project ID: 621 BOLTON POST RD
Client ID: CS-5 8'-9'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	81		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C

Project ID: 621 BOLTON POST RD
Client ID: CS-5 8'-9'

Phoenix I.D.: CD55777

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	96		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 12:00
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55778

Project ID: 621 BOLTON POST RD
Client ID: CS-6 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	55	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	55	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	550	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	6.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	66	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	22	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	22	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	22	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	22	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-6 10'-11'

Phoenix I.D.: CD55778

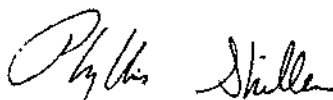
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 12:15
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55779

Project ID: 621 BOLTON POST RD
Client ID: CS-7 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	35	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	35	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	350	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	4.2	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	42	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	6.9	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-7 11'

Phoenix I.D.: CD55779

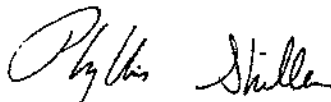
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date	Time
07/10/19	12:30
07/12/19	11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55780

Project ID: 621 BOLTON POST RD
Client ID: CS-8 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	26	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-8 11'

Phoenix I.D.: CD55780

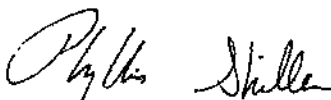
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 12:45
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55781

Project ID: 621 BOLTON POST RD
Client ID: CS-9 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	33	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-9 10'-11'

Phoenix I.D.: CD55781

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	99		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

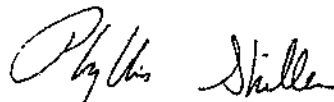
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 11:00
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55782

Project ID: 621 BOLTON POST RD
Client ID: CS-10 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	9.8	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.8	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-10 10'-11'

Phoenix I.D.: CD55782

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	96		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06046
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 11:10
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55783

Project ID: 621 BOLTON POST RD
Client ID: CS-11 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	41	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	41	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	410	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	4.9	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	49	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	8.1	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-11 11'

Phoenix I.D.: CD55783

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	96		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

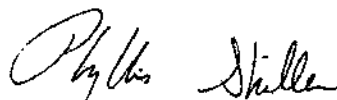
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 11:20
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55784

Project ID: 621 BOLTON POST RD
Client ID: CS-12 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	07/14/19	JLI	SW8260C
2-isopropyltoluene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	30	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	07/14/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	07/14/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-12 11'

Phoenix I.D.: CD55784

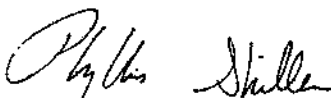
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	102		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/14/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
557 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 11:30
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55785

Project ID: 621 BOLTON POST RD
Client ID: CS-13 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	29	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-13 10'-11'

Phoenix I.D.: CD55785

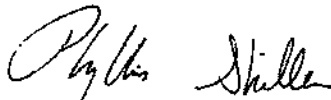
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	101		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date	Time
07/11/19	13:00
07/12/19	11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55786

Project ID: 621 BOLTON POST RD
Client ID: CS-14 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	35	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	35	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	350	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	4.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	42	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-14 10'-11'

Phoenix I.D.: CD55786

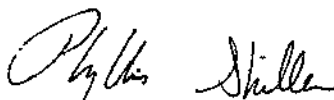
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 13:10
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55787

Project ID: 621 BOLTON POST RD
Client ID: CS-15 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	32	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-15 11'

Phoenix I.D.: CD55787

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	96		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

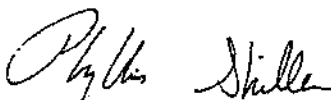
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 13:20
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55788

Project ID: 621 BOLTON POST RD
Client ID: CS-16 11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.1	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	51	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	51	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	510	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	6.1	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	61	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	10	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-16 11'

Phoenix I.D.: CD55788

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

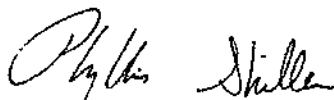
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time

07/11/19 13:30

07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55789

Project ID: 621 BOLTON POST RD
Client ID: CS-17 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	45	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	45	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	450	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	5.4	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	54	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	9.0	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-17 10'-11'

Phoenix I.D.: CD55789

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

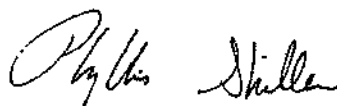
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date

07/11/19

Time

13:40

07/12/19

11:51

Laboratory Data

SDG ID: GCD55773

Phoenix ID: CD55790

Project ID: 621 BOLTON POST RD
Client ID: CS-18 10'-11'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		07/12/19	DA	SW846-%Solid

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	27	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	07/15/19	JLI	70 - 130 %

Project ID: 621 BOLTON POST RD
Client ID: CS-18 10'-11'

Phoenix I.D.: CD55790

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/15/19	JLI	70 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

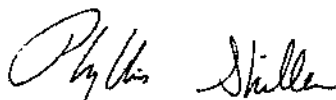
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date	Time
07/10/19	13:45
07/12/19	11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55791

Project ID: 621 BOLTON POST RD
Client ID: CS-19 4'-5'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	59		%	1	07/16/19	JRB	50 - 150 %

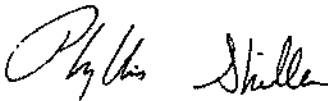
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 13:50
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55792

Project ID: 621 BOLTON POST RD
Client ID: CS-20 4'-5'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/ML	SW3545A
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D
<u>QA/QC Surrogates</u>							
% n-Pentacosane	78		%	1	07/16/19	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 13:55
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55793

Project ID: 621 BOLTON POST RD
Client ID: CS-21 4'-5'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	68		%	1	07/16/19	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 14:00
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55794

Project ID: 621 BOLTON POST RD
Client ID: CS-22 4'-5'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		07/12/19	DA	SW846-%Solid
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D
<u>QA/QC Surrogates</u>							
% n-Pentacosane	82		%	1	07/16/19	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/10/19 14:05
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55795

Project ID: 621 BOLTON POST RD
Client ID: CS-23 5'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		07/12/19	DA	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/15/19	NT/E	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GGVL	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	74		%	1	07/16/19	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	07/15/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	07/15/19	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/15/19	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Acenaphthene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Acenaphthylene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Anthracene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Chrysene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Fluoranthene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Fluorene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Naphthalene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Phenanthrene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
Pyrene	ND	230	ug/Kg	1	07/16/19	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	67		%	1	07/16/19	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	07/16/19	WB	30 - 130 %
% Terphenyl-d14	72		%	1	07/16/19	WB	30 - 130 %
Field Extraction	Completed				07/10/19		SW5035A

Project ID: 621 BOLTON POST RD
Client ID: CS-23 5'

Phoenix I.D.: CD55795

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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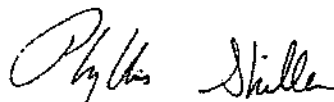
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 10:00
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55796

Project ID: 621 BOLTON POST RD
Client ID: CS-24 5'-6"

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	07/16/19	CPP	SW8010D
Arsenic	1.74	0.73	mg/Kg	1	07/16/19	CPP	SW8010D
Barium	21.4	0.37	mg/Kg	1	07/16/19	CPP	SW8010D
Cadmium	< 0.37	0.37	mg/Kg	1	07/16/19	CPP	SW8010D
Chromium	7.11	0.37	mg/Kg	1	07/16/19	CPP	SW8010D
Mercury	< 0.03	0.03	mg/Kg	2	07/16/19	RS	SW7471B
Lead	1.84	0.37	mg/Kg	1	07/16/19	CPP	SW8010D
Selenium	< 1.5	1.5	mg/Kg	1	07/16/19	CPP	SW8010D
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Soil Extraction for PCB	Completed				07/17/19	MMV	SW3545A
Soil Extraction for SVOA	Completed				07/12/19	NT/E	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GGV/L	SW3545A
Mercury Digestion	Completed				07/16/19	II	SW7471B
Total Metals Digest	Completed				07/15/19	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	80		%	1	07/16/19	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	07/18/19	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	74		%	10	07/18/19	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	07/18/19	SC	30 - 150 %
% TCMX	72		%	10	07/18/19	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	07/18/19	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	6.2	ug/Kg	1	07/15/19	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	07/15/19	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/15/19	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	07/14/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	07/14/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acetophenone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Aniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzoic acid	ND	890	ug/Kg	1	07/14/19	KCA	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Carbazole	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Chrysene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-butylphthalate	ND	340	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isophorone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachlorophenol	ND	340	ug/Kg	1	07/14/19	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Phenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyridine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorophenol	60		%	1	07/14/19	KCA	30 - 130 %
% Nitrobenzene-d5	59		%	1	07/14/19	KCA	30 - 130 %
% Phenol-d5	62		%	1	07/14/19	KCA	30 - 130 %
% Terphenyl-d14	86		%	1	07/14/19	KCA	30 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

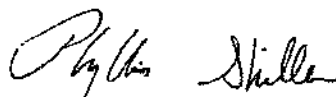
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 10:05
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55797

Project ID: 621 BOLTON POST RD
Client ID: CS-25 5'-6'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	07/16/19	CPP	SW6010D
Arsenic	2.30	0.71	mg/Kg	1	07/16/19	CPP	SW6010D
Barium	24.6	0.36	mg/Kg	1	07/16/19	CPP	SW6010D
Cadmium	< 0.36	0.36	mg/Kg	1	07/16/19	CPP	SW6010D
Chromium	9.91	0.36	mg/Kg	1	07/16/19	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	07/16/19	RS	SW7471B
Lead	18.1	0.36	mg/Kg	1	07/16/19	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	07/16/19	CPP	SW6010D
Percent Solid	95		%		07/12/19	DA	SW846-%Solid
Soil Extraction for PCB	Completed				07/17/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed				07/12/19	NT/E	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GG/VL	SW3545A
Mercury Digestion	Completed				07/16/19	I/I	SW7471B
Total Metals Digest	Completed				07/15/19	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	88		%	1	07/16/19	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	07/18/19	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	61		%	10	07/18/19	SC	30 - 150 %
% DCBP (Confirmation)	67		%	10	07/18/19	SC	30 - 150 %
% TCMX	59		%	10	07/18/19	SC	30 - 150 %
% TCMX (Confirmation)	59		%	10	07/18/19	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	07/14/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	99		%	1	07/14/19	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	07/14/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acetophenone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Aniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(a)pyrene	280	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(b)fluoranthene	260	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(ghi)perylene	270	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	07/14/19	KCA	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Carbazole	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Chrysene	260	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluoranthene	530	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	310	240	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isophorone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Phenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyrene	430	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyridine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	72		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorobiphenyl	70		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorophenol	66		%	1	07/14/19	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	07/14/19	KCA	30 - 130 %
% Phenol-d5	69		%	1	07/14/19	KCA	30 - 130 %
% Terphenyl-d14	92		%	1	07/14/19	KCA	30 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

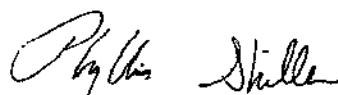
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date

07/11/19

Time

10:10

07/12/19

11:51

Laboratory Data

SDG ID: GCD55773

Phoenix ID: CD55798

Project ID: 621 BOLTON POST RD

Client ID: CS-26 5'-6'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	07/16/19	CPP	SW6010D
Arsenic	0.93	0.70	mg/Kg	1	07/16/19	CPP	SW6010D
Barium	32.0	0.35	mg/Kg	1	07/16/19	CPP	SW6010D
Cadmium	< 0.35	0.35	mg/Kg	1	07/16/19	CPP	SW6010D
Chromium	8.06	0.35	mg/Kg	1	07/16/19	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	07/16/19	RS	SW7471B
Lead	23.8	0.35	mg/Kg	1	07/16/19	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	07/16/19	CPP	SW6010D
Percent Solid	94		%		07/12/19	DA	SW846-%Solid
Soil Extraction for PCB	Completed				07/17/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed				07/12/19	NT/CK	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GG/ML	SW3545A
Mercury Digestion	Completed				07/16/19	I/I	SW7471B
Total Metals Digest	Completed				07/15/19	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	07/17/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/17/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	66		%	5	07/17/19	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	07/18/19	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	67		%	10	07/18/19	SC	30 - 150 %
% DCBP (Confirmation)	66		%	10	07/18/19	SC	30 - 150 %
% TCMX	65		%	10	07/18/19	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	07/18/19	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	7.3	ug/Kg	1	07/14/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloroethene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,1-Dichloropropene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,2-Dichloropropane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,3-Dichloropropane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
2,2-Dichloropropane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
2-Chlorotoluene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
2-Hexanone	ND	61	ug/Kg	1	07/14/19	JLI	SW8260C
2-Isopropyltoluene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
4-Chlorotoluene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	61	ug/Kg	1	07/14/19	JLI	SW8260C
Acetone	ND	610	ug/Kg	1	07/14/19	JLI	SW8260C
Acrylonitrile	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Benzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Bromobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Bromochloromethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Bromodichloromethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Bromoform	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Bromomethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon Disulfide	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Carbon tetrachloride	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Chlorobenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Chloroform	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Chloromethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromochloromethane	ND	7.3	ug/Kg	1	07/14/19	JLI	SW8260C
Dibromomethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Dichlorodifluoromethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Ethylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Hexachlorobutadiene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Isopropylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
m&p-Xylene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	73	ug/Kg	1	07/14/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Methylene chloride	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Naphthalene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
n-Butylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
n-Propylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
o-Xylene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
p-Isopropyltoluene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
sec-Butylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Styrene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
tert-Butylbenzene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrachloroethene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Toluene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Total Xylenes	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	10	ug/Kg	1	07/14/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Trichloroethene	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorofluoromethane	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	24	ug/Kg	1	07/14/19	JLI	SW8260C
Vinyl chloride	ND	12	ug/Kg	1	07/14/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	07/14/19	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	07/14/19	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	07/14/19	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/14/19	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	07/14/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acetophenone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Aniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	07/14/19	KCA	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Carbazole	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Chrysene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isophorone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Phenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyridine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	72		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorophenol	58		%	1	07/14/19	KCA	30 - 130 %
% Nitrobenzene-d5	62		%	1	07/14/19	KCA	30 - 130 %
% Phenol-d5	65		%	1	07/14/19	KCA	30 - 130 %
% Terphenyl-d14	84		%	1	07/14/19	KCA	30 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

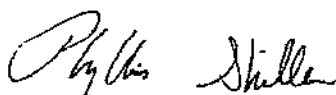
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

Date Time
07/11/19 10:15
07/12/19 11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55799

Project ID: 621 BOLTON POST RD
Client ID: CS-27 5'-6"

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.31	0.31	mg/Kg	1	07/16/19	CPP	SW6010D
Arsenic	< 0.63	0.63	mg/Kg	1	07/16/19	CPP	SW6010D
Barium	28.5	0.31	mg/Kg	1	07/16/19	CPP	SW6010D
Cadmium	0.34	0.31	mg/Kg	1	07/16/19	CPP	SW6010D
Chromium	6.73	0.31	mg/Kg	1	07/16/19	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	07/16/19	RS	SW7471B
Lead	5.80	0.31	mg/Kg	1	07/16/19	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	07/16/19	CPP	SW6010D
Percent Solid	96		%		07/12/19	DA	SW846-%Solid
Soil Extraction for PCB	Completed				07/17/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed				07/12/19	NT/CK	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GG/E	SW3545A
Mercury Digestion	Completed				07/16/19	I/I	SW7471B
Total Metals Digest	Completed				07/15/19	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	07/17/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/17/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	71		%	5	07/17/19	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	07/18/19	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	07/18/19	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	10	07/18/19	SC	30 - 150 %
% DCBP (Confirmation)	76		%	10	07/18/19	SC	30 - 150 %
% TCMX	73		%	10	07/18/19	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	07/18/19	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	36	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	36	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	360	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	7.2	ug/Kg	1	07/15/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	07/15/19	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	100		%	1	07/15/19	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	07/14/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Acetophenone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Aniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Benzoic acid	ND	690	ug/Kg	1	07/14/19	KCA	SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Carbazole	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Chrysene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluoranthene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachloroethane	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isophorone	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	07/14/19	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Phenol	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyrene	ND	240	ug/Kg	1	07/14/19	KCA	SW8270D
Pyridine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	60		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	07/14/19	KCA	30 - 130 %
% Nitrobenzene-d5	54		%	1	07/14/19	KCA	30 - 130 %
% Phenol-d5	57		%	1	07/14/19	KCA	30 - 130 %
% Terphenyl-d14	87		%	1	07/14/19	KCA	30 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

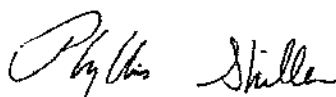
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 21, 2019

FOR: Attn: Dennis MacCaskie
Cambrian Geological LLC
1257 Southford Rd
Southbury CT 06488

Sample Information

Matrix: SOIL
Location Code: CAMBRIAN
Rush Request: Standard
P.O.#:

Custody Information

Collected by: NH
Received by: CP
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/11/19	10:20
07/12/19	11:51

Laboratory Data

SDG ID: GCD55773
Phoenix ID: CD55800

Project ID: 621 BOLTON POST RD
Client ID: CS-28 6'

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	07/16/19	CPP	SW6010D
Arsenic	1.78	0.77	mg/Kg	1	07/16/19	CPP	SW6010D
Barium	24.2	0.38	mg/Kg	1	07/16/19	CPP	SW6010D
Cadmium	< 0.38	0.38	mg/Kg	1	07/16/19	CPP	SW6010D
Chromium	5.65	0.38	mg/Kg	1	07/16/19	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	07/16/19	RS	SW7471B
Lead	6.06	0.38	mg/Kg	1	07/16/19	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	07/16/19	CPP	SW6010D
Percent Solid	93		%		07/12/19	DA	SW846-%Solid
Soil Extraction for PCB	Completed				07/17/19	MM/V	SW3545A
Soil Extraction for SVOA	Completed				07/12/19	NT/CK	SW3545A
Extraction of CT ETPH	Completed				07/15/19	GG/E	SW3545A
Mercury Digestion	Completed				07/16/19	I/I	SW7471B
Total Metals Digest	Completed				07/15/19	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	07/16/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/16/19	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	57		%	1	07/16/19	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	07/18/19	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	07/18/19	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	59		%	10	07/18/19	SC	30 - 150 %
% DCBP (Confirmation)	59		%	10	07/18/19	SC	30 - 150 %
% TCMX	56		%	10	07/18/19	SC	30 - 150 %
% TCMX (Confirmation)	54		%	10	07/18/19	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,1-Trichloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	1	07/15/19	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloroethene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,1-Dichloropropene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,3-Trichloropropane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,2-Dichloropropane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,3-Dichloropropane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
2,2-Dichloropropane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Chlorotoluene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
2-Hexanone	ND	46	ug/Kg	1	07/15/19	JLI	SW8260C
2-Isopropyltoluene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Chlorotoluene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
4-Methyl-2-pentanone	ND	46	ug/Kg	1	07/15/19	JLI	SW8260C
Acetone	ND	460	ug/Kg	1	07/15/19	JLI	SW8260C
Acrylonitrile	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Benzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromochloromethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromodichloromethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromoform	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Bromomethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon Disulfide	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Carbon tetrachloride	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chlorobenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloroform	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Chloromethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromochloromethane	ND	5.5	ug/Kg	1	07/15/19	JLI	SW8260C
Dibromomethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Dichlorodifluoromethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Ethylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Hexachlorobutadiene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Isopropylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
m&p-Xylene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl Ethyl Ketone	ND	55	ug/Kg	1	07/15/19	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Methylene chloride	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Naphthalene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Butylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
n-Propylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
o-Xylene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
p-Isopropyltoluene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
sec-Butylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Styrene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
tert-Butylbenzene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrachloroethene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Toluene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Total Xylenes	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Trichloroethene	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorofluoromethane	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
Trichlorotrifluoroethane	ND	18	ug/Kg	1	07/15/19	JLI	SW8260C
Vinyl chloride	ND	9.2	ug/Kg	1	07/15/19	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	07/15/19	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	07/15/19	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	07/15/19	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/15/19	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	100	ug/Kg	1	07/14/19	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
1,2-Diphenylhydrazine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2,4,6-Trichlorophenol	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2,4-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	07/14/19	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
3-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chloroaniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitroaniline	ND	300	ug/Kg	1	07/14/19	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Acetophenone	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Aniline	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Anthracene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Benzoic acid	ND	720	ug/Kg	1	07/14/19	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Carbazole	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Chrysene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Dibenzofuran	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-butylphthalate	ND	360	ug/Kg	1	07/14/19	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorobutadiene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isophorone	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Nitrobenzene	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
N-Nitrosodiphenylamine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachloronitrobenzene	ND	140	ug/Kg	1	07/14/19	KCA	SW8270D
Pentachlorophenol	ND	360	ug/Kg	1	07/14/19	KCA	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Pyrene	ND	250	ug/Kg	1	07/14/19	KCA	SW8270D
Pyridine	ND	200	ug/Kg	1	07/14/19	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	63		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	07/14/19	KCA	30 - 130 %
% 2-Fluorophenol	54		%	1	07/14/19	KCA	30 - 130 %
% Nitrobenzene-d5	55		%	1	07/14/19	KCA	30 - 130 %
% Phenol-d5	59		%	1	07/14/19	KCA	30 - 130 %
% Terphenyl-d14	81		%	1	07/14/19	KCA	30 - 130 %
Field Extraction	Completed				07/11/19		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

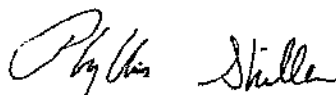
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

July 21, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 21, 2019

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 487605 (mg/kg), QC Sample No: CD56456 2X (CD55796, CD55797, CD55798, CD55799, CD55800)													
Mercury - Soil	BRL	0.03	0.13	0.16	20.7	89.6	89.1	0.6	123	106	14.8	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 487674 (mg/kg), QC Sample No: CD55796 (CD55796, CD55797, CD55798, CD55799, CD55800)

ICP Metals - Soil

Arsenic	BRL	0.69	1.74	2.66	NC	104	106	1.9	97.3			75 - 125	30
Barium	BRL	0.35	21.4	24.8	14.7	103	110	6.6	101			75 - 125	30
Cadmium	BRL	0.35	<0.37	<0.36	NC	97.8	105	7.1	99.4			75 - 125	30
Chromium	BRL	0.35	7.11	9.57	29.5	103	107	3.8	101			75 - 125	30
Lead	BRL	0.35	1.84	2.44	NC	105	106	0.9	100			75 - 125	30
Selenium	BRL	1.4	<1.5	<1.4	NC	96.4	103	6.6	89.8			75 - 125	30
Silver	BRL	0.35	<0.37	<0.36	NC	101	105	3.9	98.2			75 - 125	30



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QA/QC Report

July 21, 2019

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 487683 (mg/Kg), QC Sample No: CD56041 (CD55773, CD55774, CD55775, CD55776, CD55777, CD55791, CD55792, CD55793, CD55794, CD55795, CD55796, CD55797, CD55798, CD55799, CD55800)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	61	52	15.9	66	76	14.1	60 - 120	30
% n-Pentacosane	62	%	69	57	19.0	75	84	11.3	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 488121 (ug/Kg), QC Sample No: CD55796 2X (CD55796, CD55797, CD55798, CD55799, CD55800)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	92	89	3.3	67	62	7.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	99	94	5.2	68	63	7.6	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	76	%	99	97	2.0	71	55	25.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	72	%	91	91	0.0	58	55	5.3	30 - 150	30
% TCMX (Surrogate Rec)	82	%	102	99	3.0	72	63	13.3	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	81	%	103	103	0.0	74	65	12.9	30 - 150	30

QA/QC Batch 487488 (ug/kg), QC Sample No: CD55540 (CD55796, CD55797, CD55798, CD55799, CD55800)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	59	62	5.0	66	80	19.2	30 - 130	30
1,2,4-Trichlorobenzene	ND	230	53	57	7.3	66	77	15.4	30 - 130	30
1,2-Dichlorobenzene	ND	180	44	46	4.4	55	65	16.7	30 - 130	30
1,2-Diphenylhydrazine	ND	230	62	70	12.1	66	77	15.4	30 - 130	30
1,3-Dichlorobenzene	ND	230	41	42	2.4	49	59	18.5	30 - 130	30
1,4-Dichlorobenzene	ND	230	43	46	6.7	52	61	15.9	30 - 130	30
2,4,5-Trichlorophenol	ND	230	76	89	15.8	80	92	14.0	30 - 130	30
2,4,6-Trichlorophenol	ND	130	72	79	9.3	76	88	14.6	30 - 130	30
2,4-Dichlorophenol	ND	130	69	75	8.3	76	89	15.8	30 - 130	30
2,4-Dimethylphenol	ND	230	71	78	9.4	78	91	15.4	30 - 130	30
2,4-Dinitrophenol	ND	230	60	62	3.3	15	<10	NC	30 - 130	30
2,4-Dinitrotoluene	ND	130	71	80	11.9	78	91	15.4	30 - 130	30
2,6-Dinitrotoluene	ND	130	78	88	12.0	87	101	14.9	30 - 130	30
2-Chloronaphthalene	ND	230	56	65	14.9	65	78	18.2	30 - 130	30
2-Chlorophenol	ND	230	55	57	3.6	67	81	18.9	30 - 130	30
2-Methylnaphthalene	ND	230	56	57	1.8	63	76	18.7	30 - 130	30
2-Methylphenol (o-cresol)	ND	230	63	70	10.5	74	87	16.1	30 - 130	30

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Nitroaniline	ND	330	89	99	10.6	107	129	18.6	30 - 130	30	
2-Nitrophenol	ND	230	66	70	5.9	78	89	13.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	62	64	3.2	68	84	21.1	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	59	65	9.7	121	153	23.4	30 - 130	30	m
3-Nitroaniline	ND	330	75	87	14.8	97	114	16.1	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	70	75	6.9	36	32	11.8	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	69	74	7.0	73	87	17.5	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	77	79	2.6	79	92	15.2	30 - 130	30	
4-Chloroaniline	ND	230	48	55	13.6	70	82	15.8	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	66	73	10.1	72	85	16.6	30 - 130	30	
4-Nitroaniline	ND	230	74	83	11.5	80	95	17.1	30 - 130	30	
4-Nitrophenol	ND	230	78	90	14.3	80	88	9.5	30 - 130	30	
Acenaphthene	ND	230	60	66	9.5	66	79	17.9	30 - 130	30	
Acenaphthylene	ND	130	61	69	12.3	68	82	18.7	30 - 130	30	
Acetophenone	ND	230	49	49	0.0	57	71	21.9	30 - 130	30	
Aniline	ND	330	30	28	6.9	53	65	20.3	30 - 130	30	l
Anthracene	ND	230	69	78	12.2	75	88	16.0	30 - 130	30	
Benz(a)anthracene	ND	230	70	76	8.2	74	88	17.3	30 - 130	30	
Benidine	ND	330	<10	<10	NC	20	27	29.8	30 - 130	30	l,m
Benzo(a)pyrene	ND	130	69	75	8.3	75	89	17.1	30 - 130	30	
Benzo(b)fluoranthene	ND	160	67	74	9.9	73	85	15.2	30 - 130	30	
Benzo(ghi)perylene	ND	230	69	79	13.5	73	89	19.8	30 - 130	30	
Benzo(k)fluoranthene	ND	230	65	69	6.0	71	82	14.4	30 - 130	30	
Benzoic Acid	ND	330	42	47	11.2	<10	<10	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	230	71	79	10.7	74	87	16.1	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	50	56	11.3	62	73	16.3	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	39	40	2.5	50	61	19.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	36	37	2.7	46	55	17.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	72	79	9.3	76	89	15.8	30 - 130	30	
Carbazole	ND	230	70	80	13.3	78	92	16.5	30 - 130	30	
Chrysene	ND	230	66	72	8.7	70	82	15.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	76	86	12.3	78	96	20.7	30 - 130	30	
Dibenzofuran	ND	230	63	71	11.9	69	83	18.4	30 - 130	30	
Diethyl phthalate	ND	230	70	79	12.1	76	90	16.9	30 - 130	30	
Dimethylphthalate	ND	230	66	75	12.8	72	86	17.7	30 - 130	30	
Di-n-butylphthalate	ND	670	79	89	11.9	84	99	16.4	30 - 130	30	
Di-n-octylphthalate	ND	230	80	86	7.2	83	99	17.6	30 - 130	30	
Fluoranthene	ND	230	75	85	12.5	81	95	15.9	30 - 130	30	
Fluorene	ND	230	67	74	9.9	72	87	18.9	30 - 130	30	
Hexachlorobenzene	ND	130	63	69	9.1	66	77	15.4	30 - 130	30	
Hexachlorobutadiene	ND	230	51	56	9.3	66	75	12.8	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	34	24	34.5	32	44	31.6	30 - 130	30	l,r
Hexachloroethane	ND	130	39	39	0.0	46	54	16.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	77	90	15.6	81	103	23.9	30 - 130	30	
Isophorone	ND	130	51	57	11.1	61	73	17.9	30 - 130	30	
Naphthalene	ND	230	50	53	5.8	60	73	19.5	30 - 130	30	
Nitrobenzene	ND	130	51	50	2.0	59	75	23.9	30 - 130	30	
N-Nitrosodimethylamine	ND	230	38	40	5.1	44	58	27.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	50	51	2.0	60	75	22.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	69	78	12.2	75	89	17.1	30 - 130	30	
Pentachloronitrobenzene	ND	230	73	82	11.6	78	91	15.4	30 - 130	30	
Pentachlorophenol	ND	230	67	66	1.5	59	66	11.2	30 - 130	30	
Phenanthrene	ND	130	66	73	10.1	71	83	15.6	30 - 130	30	

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenol	ND	230	59	62	5.0	62	75	19.0	30 - 130	30
Pyrene	ND	230	76	87	13.5	84	97	14.4	30 - 130	30
Pyridine	ND	230	25	28	11.3	28	42	40.0	30 - 130	30
% 2,4,6-Tribromophenol	99	%	65	70	7.4	65	75	14.3	30 - 130	30
% 2-Fluorobiphenyl	76	%	54	63	15.4	63	76	18.7	30 - 130	30
% 2-Fluorophenol	61	%	47	51	8.2	60	72	18.2	30 - 130	30
% Nitrobenzene-d5	66	%	49	49	0.0	57	71	21.9	30 - 130	30
% Phenol-d5	61	%	51	55	7.5	60	73	19.5	30 - 130	30
% Terphenyl-d14	73	%	70	82	15.8	78	90	14.3	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 487736 (ug/kg), QC Sample No: CD55773 (CD55773, CD55795)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	83	75	10.1	71	74	4.1	30 - 130	30
Acenaphthene	ND	230	81	73	10.4	70	79	12.1	30 - 130	30
Acenaphthylene	ND	230	74	66	11.4	66	74	11.4	30 - 130	30
Anthracene	ND	230	83	76	8.8	71	80	11.9	30 - 130	30
Benz(a)anthracene	ND	230	77	75	2.6	69	80	14.8	30 - 130	30
Benzo(a)pyrene	ND	230	73	70	4.2	67	78	15.2	30 - 130	30
Benzo(b)fluoranthene	ND	230	78	79	1.3	70	81	14.6	30 - 130	30
Benzo(ghi)perylene	ND	230	75	73	2.7	70	85	19.4	30 - 130	30
Benzo(k)fluoranthene	ND	230	78	72	8.0	67	80	17.7	30 - 130	30
Chrysene	ND	230	78	78	0.0	70	82	15.8	30 - 130	30
Dibenz(a,h)anthracene	ND	230	85	82	3.6	75	91	19.3	30 - 130	30
Fluoranthene	ND	230	83	85	2.4	73	82	11.6	30 - 130	30
Fluorene	ND	230	78	71	9.4	69	78	12.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	80	79	1.3	72	85	16.6	30 - 130	30
Naphthalene	ND	230	81	76	6.4	73	74	1.4	30 - 130	30
Phenanthrene	ND	230	80	80	0.0	70	79	12.1	30 - 130	30
Pyrene	ND	230	83	85	2.4	72	83	14.2	30 - 130	30
% 2-Fluorobiphenyl	70	%	69	62	10.7	62	68	9.2	30 - 130	30
% Nitrobenzene-d5	69	%	72	67	7.2	63	50	23.0	30 - 130	30
% Terphenyl-d14	71	%	76	68	11.1	64	73	13.1	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 487906 (ug/kg), QC Sample No: CD55484 (CD55781)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	109	112	2.7				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	107	109	1.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	112	113	0.9				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	109	109	0.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	93	93	0.0				70 - 130	30
1,1-Dichloroethene	ND	5.0	104	104	0.0				70 - 130	30
1,1-Dichloropropene	ND	5.0	106	108	1.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	112	111	0.9				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	107	106	0.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	111	114	2.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	104	1.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	119	118	0.8				70 - 130	30
1,2-Dibromoethane	ND	5.0	108	108	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichlorobenzene	ND	5.0	105	106	0.9				70 - 130	30
1,2-Dichloroethane	ND	5.0	105	105	0.0				70 - 130	30
1,2-Dichloropropane	ND	5.0	111	112	0.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	104	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	107	108	0.9				70 - 130	30
1,3-Dichloropropane	ND	5.0	104	105	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	105	106	0.9				70 - 130	30
2,2-Dichloropropane	ND	5.0	119	117	1.7				70 - 130	30
2-Chlorotoluene	ND	5.0	106	108	1.9				70 - 130	30
2-Hexanone	ND	25	99	98	1.0				70 - 130	30
2-Isopropyltoluene	ND	5.0	101	102	1.0				70 - 130	30
4-Chlorotoluene	ND	5.0	106	108	1.9				70 - 130	30
4-Methyl-2-pentanone	ND	25	107	106	0.9				70 - 130	30
Acetone	ND	10	94	92	2.2				70 - 130	30
Acrylonitrile	ND	5.0	83	84	1.2				70 - 130	30
Benzene	ND	1.0	107	109	1.9				70 - 130	30
Bromobenzene	ND	5.0	105	105	0.0				70 - 130	30
Bromochloromethane	ND	5.0	113	113	0.0				70 - 130	30
Bromodichloromethane	ND	5.0	113	114	0.9				70 - 130	30
Bromoform	ND	5.0	124	124	0.0				70 - 130	30
Bromomethane	ND	5.0	91	93	2.2				70 - 130	30
Carbon Disulfide	ND	5.0	111	113	1.8				70 - 130	30
Carbon tetrachloride	ND	5.0	111	113	1.8				70 - 130	30
Chlorobenzene	ND	5.0	104	105	1.0				70 - 130	30
Chloroethane	ND	5.0	89	91	2.2				70 - 130	30
Chloroform	ND	5.0	106	110	3.7				70 - 130	30
Chloromethane	ND	5.0	99	101	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	113	112	0.9				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	113	114	0.9				70 - 130	30
Dibromochloromethane	ND	3.0	117	117	0.0				70 - 130	30
Dibromomethane	ND	5.0	110	110	0.0				70 - 130	30
Dichlorodifluoromethane	ND	5.0	107	108	0.9				70 - 130	30
Ethylbenzene	ND	1.0	103	104	1.0				70 - 130	30
Hexachlorobutadiene	ND	5.0	113	114	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	101	103	2.0				70 - 130	30
m&p-Xylene	ND	2.0	102	104	1.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	109	106	2.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	96	1.0				70 - 130	30
Methylene chloride	ND	5.0	94	95	1.1				70 - 130	30
Naphthalene	ND	5.0	112	112	0.0				70 - 130	30
n-Butylbenzene	ND	1.0	106	108	1.9				70 - 130	30
n-Propylbenzene	ND	1.0	103	105	1.9				70 - 130	30
o-Xylene	ND	2.0	104	106	1.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	104	106	1.9				70 - 130	30
sec-Butylbenzene	ND	1.0	109	110	0.9				70 - 130	30
Styrene	ND	5.0	108	108	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	102	104	1.9				70 - 130	30
Tetrachloroethene	ND	5.0	112	113	0.9				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	105	106	0.9				70 - 130	30
Toluene	ND	1.0	107	109	1.9				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	107	107	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	112	113	0.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	112	111	0.9				70 - 130	30

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichloroethene	ND	5.0	107	109	1.9				70 - 130	30
Trichlorofluoromethane	ND	5.0	84	87	3.5				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	101	105	3.9				70 - 130	30
Vinyl chloride	ND	5.0	98	99	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	100	%	100	100	0.0				70 - 130	30
% Dibromofluoromethane	100	%	108	107	0.9				70 - 130	30
% Toluene-d8	100	%	101	101	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 487712 (ug/kg), QC Sample No: CD55786 (CD55773, CD55774, CD55775, CD55776, CD55777, CD55778, CD55779, CD55780, CD55782, CD55783, CD55784, CD55785, CD55786, CD55787, CD55788, CD55789, CD55790, CD55795, CD55796)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	99	99	0.0	101	99	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	97	96	1.0	98	101	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	98	95	3.1	101	102	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	97	97	0.0	99	101	2.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	96	96	0.0	98	99	1.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	97	96	1.0	92	92	0.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	105	103	1.9	96	93	3.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	104	105	1.0	93	94	1.1	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	98	99	1.0	100	100	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	104	107	2.8	95	93	2.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	95	94	1.1	95	94	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	88	85	3.5	81	84	3.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	98	97	1.0	98	100	2.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	100	0.0	100	99	1.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	101	99	2.0	103	103	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	101	101	0.0	106	106	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	98	98	0.0	99	98	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	102	102	0.0	101	101	0.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	100	100	0.0	101	103	2.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	100	100	0.0	97	98	1.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	99	97	2.0	92	93	1.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	105	103	1.9	103	103	0.0	70 - 130	30	
2-Hexanone	ND	25	76	77	1.3	38	43	12.3	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	94	93	1.1	94	95	1.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	103	102	1.0	99	99	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	87	86	1.2	82	83	1.2	70 - 130	30	
Acetone	ND	10	70	71	1.4	<10	<10	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	77	77	0.0	72	77	6.7	70 - 130	30	
Benzene	ND	1.0	104	102	1.9	105	102	2.9	70 - 130	30	
Bromobenzene	ND	5.0	100	99	1.0	95	95	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	98	97	1.0	102	104	1.9	70 - 130	30	
Bromodichloromethane	ND	5.0	94	92	2.2	94	95	1.1	70 - 130	30	
Bromoform	ND	5.0	87	85	2.3	77	83	7.5	70 - 130	30	
Bromomethane	ND	5.0	99	96	3.1	109	105	3.7	70 - 130	30	
Carbon Disulfide	ND	5.0	85	85	0.0	79	79	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	92	92	0.0	91	93	2.2	70 - 130	30	
Chlorobenzene	ND	5.0	105	104	1.0	102	103	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloroethane	ND	5.0	86	88	2.3	92	93	1.1	70 - 130	30
Chloroform	ND	5.0	99	97	2.0	101	103	2.0	70 - 130	30
Chloromethane	ND	5.0	83	83	0.0	83	84	1.2	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	102	101	1.0	106	114	7.3	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	98	96	2.1	91	91	0.0	70 - 130	30
Dibromochloromethane	ND	3.0	93	92	1.1	90	92	2.2	70 - 130	30
Dibromomethane	ND	5.0	96	97	1.0	99	98	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	80	78	2.5	73	73	0.0	70 - 130	30
Ethylbenzene	ND	1.0	104	103	1.0	95	96	1.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	111	112	0.9	97	98	1.0	70 - 130	30
Isopropylbenzene	ND	1.0	103	101	2.0	103	103	0.0	70 - 130	30
m&p-Xylene	ND	2.0	103	102	1.0	101	101	0.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	77	75	2.6	71	75	5.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	81	82	1.2	85	86	1.2	70 - 130	30
Methylene chloride	ND	5.0	80	81	1.2	136	151	10.5	70 - 130	30
Naphthalene	ND	5.0	96	98	2.1	59	66	11.2	70 - 130	30
n-Butylbenzene	ND	1.0	104	104	0.0	97	95	2.1	70 - 130	30
n-Propylbenzene	ND	1.0	105	104	1.0	97	98	1.0	70 - 130	30
o-Xylene	ND	2.0	103	102	1.0	102	102	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	101	100	1.0	99	96	3.1	70 - 130	30
sec-Butylbenzene	ND	1.0	108	107	0.9	109	107	1.9	70 - 130	30
Styrene	ND	5.0	97	98	1.0	81	84	3.6	70 - 130	30
tert-Butylbenzene	ND	1.0	102	101	1.0	104	105	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	114	108	5.4	108	107	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	79	79	0.0	80	82	2.5	70 - 130	30
Toluene	ND	1.0	102	101	1.0	94	93	1.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	97	96	1.0	94	97	3.1	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	94	95	1.1	92	92	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	80	79	1.3	73	74	1.4	70 - 130	30
Trichloroethene	ND	5.0	109	108	0.9	109	106	2.8	70 - 130	30
Trichlorofluoromethane	ND	5.0	88	90	2.2	94	92	2.2	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	97	98	1.0	95	96	1.0	70 - 130	30
Vinyl chloride	ND	5.0	87	85	2.3	84	84	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	93	%	97	97	0.0	95	95	0.0	70 - 130	30
% Dibromofluoromethane	100	%	102	100	2.0	98	99	1.0	70 - 130	30
% Toluene-d8	97	%	98	98	0.0	98	97	1.0	70 - 130	30

m
m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 487856 (ug/kg), QC Sample No: CD55799 (CD55797, CD55798, CD55799, CD55800)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	93	86	7.8				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	89	85	4.6				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	92	84	9.1				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	92	86	6.7				70 - 130	30
1,1-Dichloroethane	ND	5.0	91	86	5.6				70 - 130	30
1,1-Dichloroethene	ND	5.0	90	87	3.4				70 - 130	30
1,1-Dichloropropene	ND	5.0	89	84	5.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	91	81	11.6				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	89	81	9.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	91	79	14.1				70 - 130	30

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trimethylbenzene	ND	1.0	91	83	9.2				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	94	86	8.9				70 - 130	30
1,2-Dibromoethane	ND	5.0	95	87	8.8				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	92	82	11.5				70 - 130	30
1,2-Dichloroethane	ND	5.0	95	86	9.9				70 - 130	30
1,2-Dichloropropane	ND	5.0	92	84	9.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	92	83	10.3				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	90	80	11.8				70 - 130	30
1,3-Dichloropropane	ND	5.0	93	86	7.8				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	91	80	12.9				70 - 130	30
2,2-Dichloropropane	ND	5.0	90	82	9.3				70 - 130	30
2-Chlorotoluene	ND	5.0	92	82	11.5				70 - 130	30
2-Hexanone	ND	25	96	88	8.7				70 - 130	30
2-Isopropyltoluene	ND	5.0	102	93	9.2				70 - 130	30
4-Chlorotoluene	ND	5.0	87	79	9.6				70 - 130	30
4-Methyl-2-pentanone	ND	25	101	91	10.4				70 - 130	30
Acetone	ND	10	89	84	5.8				70 - 130	30
Acrylonitrile	ND	5.0	95	88	7.7				70 - 130	30
Benzene	ND	1.0	90	85	5.7				70 - 130	30
Bromobenzene	ND	5.0	91	83	9.2				70 - 130	30
Bromochloromethane	ND	5.0	88	86	2.3				70 - 130	30
Bromodichloromethane	ND	5.0	95	87	8.8				70 - 130	30
Bromoform	ND	5.0	98	90	8.5				70 - 130	30
Bromomethane	ND	5.0	102	94	8.2				70 - 130	30
Carbon Disulfide	ND	5.0	96	91	5.3				70 - 130	30
Carbon tetrachloride	ND	5.0	90	89	1.1				70 - 130	30
Chlorobenzene	ND	5.0	91	84	8.0				70 - 130	30
Chloroethane	ND	5.0	100	95	5.1				70 - 130	30
Chloroform	ND	5.0	88	85	3.5				70 - 130	30
Chloromethane	ND	5.0	100	94	6.2				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	83	11.4				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	91	83	9.2				70 - 130	30
Dibromochloromethane	ND	3.0	96	88	8.7				70 - 130	30
Dibromomethane	ND	5.0	91	83	9.2				70 - 130	30
Dichlorodifluoromethane	ND	5.0	93	89	4.4				70 - 130	30
Ethylbenzene	ND	1.0	92	87	5.6				70 - 130	30
Hexachlorobutadiene	ND	5.0	93	84	10.2				70 - 130	30
Isopropylbenzene	ND	1.0	90	83	8.1				70 - 130	30
m&p-Xylene	ND	2.0	91	85	6.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	95	93	2.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	90	8.5				70 - 130	30
Methylene chloride	ND	5.0	77	71	8.1				70 - 130	30
Naphthalene	ND	5.0	94	86	8.9				70 - 130	30
n-Butylbenzene	ND	1.0	92	83	10.3				70 - 130	30
n-Propylbenzene	ND	1.0	92	84	9.1				70 - 130	30
o-Xylene	ND	2.0	93	85	9.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	91	84	8.0				70 - 130	30
sec-Butylbenzene	ND	1.0	97	90	7.5				70 - 130	30
Styrene	ND	5.0	90	84	6.9				70 - 130	30
tert-Butylbenzene	ND	1.0	90	84	6.9				70 - 130	30
Tetrachloroethene	ND	5.0	92	86	6.7				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	96	88	8.7				70 - 130	30
Toluene	ND	1.0	92	85	7.9				70 - 130	30

QA/QC Data

SDG I.D.: GCD55773

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,2-Dichloroethene	ND	5.0	92	86	6.7				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	91	80	12.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	101	92	9.3				70 - 130	30
Trichloroethene	ND	5.0	94	86	8.9				70 - 130	30
Trichlorofluoromethane	ND	5.0	91	88	3.4				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	95	93	2.1				70 - 130	30
Vinyl chloride	ND	5.0	102	98	4.0				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	97	%	102	102	0.0				70 - 130	30
% Dibromofluoromethane	100	%	100	101	1.0				70 - 130	30
% Toluene-d8	99	%	101	100	1.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

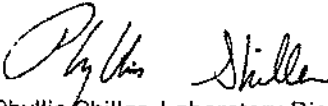
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis/Shiller, Laboratory Director
July 21, 2019

Sunday, July 21, 2019

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCD55773 - CAMBRIAN

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
*** No Data to Display ***								

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Cambrian Geological LLC

Project Location: 621 BOLTON POST RD

Project Number:

Laboratory Sample ID(s): CD55773-CD55800

Sampling Date(s): 7/10/2019, 7/11/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Sunday, July 21, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

CTDEP RCP Laboratory Analysis QA/QC Certification Form - November 2007
Laboratory Quality Assurance and Quality Control Guidance Reasonable Confidence Protocols



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 21, 2019

SDG I.D.: GCD55773

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 487683 (Samples: CD55773, CD55774, CD55775, CD55776, CD55777, CD55791, CD55792, CD55793, CD55794, CD55795, CD55796, CD55797, CD55798, CD55799, CD55800): ----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 07/15/19-1

Jeff Bucko, Chemist 07/15/19

CD55798, CD55799

The initial calibration (ETPH715I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (715A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CD55798, CD55799

Preceding CC 715A061 - None.

Succeeding CC 715A070 - ETPH (C9-C36) 43%H (30%), Pentacosane 51%H (30%)

AU-FID11 07/15/19-1

Jeff Bucko, Chemist 07/15/19

CD55773, CD55774, CD55775, CD55776, CD55777, CD55791

The initial calibration (ETPH513I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (715A003A) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

AU-FID11 07/16/19-1

Jeff Bucko, Chemist 07/16/19

CD55792, CD55793

The initial calibration (ETPH513I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (715A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

AU-FID21 07/15/19-1

Jeff Bucko, Chemist 07/15/19

CD55794, CD55795, CD55796, CD55797, CD55800

The initial calibration (ETPH709I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (715A006_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

QC (Batch Specific):

Batch 487683 (CD56041)



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RCP Certification Report

July 21, 2019

SDG I.D.: GCD55773

ETPH Narration

CD55773, CD55774, CD55775, CD55776, CD55777, CD55791, CD55792, CD55793, CD55794, CD55795, CD55796, CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(52%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 07/16/19 07:59

Rick Schweitzer, Chemist 07/16/19

CD55796, CD55797, CD55798, CD55799, CD55800

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 487605 (CD56456)

CD55796, CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 07/16/19 08:04

Cindy Pearce, Chemist 07/16/19

CD55796, CD55797, CD55798, CD55799, CD55800

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.



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Certification Report

July 21, 2019

SDG I.D.: GCD55773

ICP Metals Narration

QC (Site Specific):

Batch 487674 (CD55796)

CD55796, CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 07/18/19-1

Saadia Chudary, Chemist 07/18/19

CD55796, CD55797, CD55798, CD55799, CD55800

The initial calibration (PC717AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC717BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

QC (Site Specific):

Batch 488121 (CD55796)

CD55796, CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 487488 (Samples: CD55796, CD55797, CD55798, CD55799, CD55800): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Aniline, Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Hexachlorocyclopentadiene)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. ((Pyridine, Benzidine)

Instrument:

CHEM19 07/15/19-2

Matt Richard, Chemist 07/15/19

CD55773, CD55795



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 21, 2019

SDG I.D.: GCD55773

SVOA Narration

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0610A):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0715_35-19_BN_0610A):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM28 07/14/19-1

Keith Aloisa, Chemist 07/14/19

CD55796, CD55797, CD55798, CD55799, CD55800

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SPLIT_0705):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Benzidine 31% (20%)

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.054 (0.1), Hexachlorobenzene 0.085 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0714_03-28_SPLIT_0705):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.077 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 487488 (CD55540)

CD55796, CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(<10%), Pyridine(25%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Aniline(28%), Benzidine(<10%),

Hexachlorocyclopentadiene(24%), Pyridine(28%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Hexachlorocyclopentadiene(34.5%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid



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VOA Narration

96% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 21% (20%), Methylene chloride 27% (20%)

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0714M11-VT-M071419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM31 07/14/19-1

Jane Li, Chemist 07/14/19

CD55773, CD55774, CD55775, CD55776, CD55777, CD55778, CD55779, CD55780, CD55782, CD55783, CD55784, CD55785, CD55786, CD55787, CD55788, CD55789, CD55790, CD55795, CD55796

Initial Calibration Evaluation (CHEM31/VT-L070219):

96% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 29% (20%), Chloroethane 29% (20%), Methylene chloride 24% (20%)

The following compounds did not meet recommended response factors: Bromoform 0.099 (0.1), Tetrachloroethene 0.141 (0.2), Trichloroethene 0.182 (0.2)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM31/0714_02-VT-L070219):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acetone 32%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 487856 (CD55799)

CD55797, CD55798, CD55799, CD55800

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 487906 (CD55484)

CD55781

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.



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RCP Certification Report

July 21, 2019

SDG I.D.: GCD55773

VOA Narration

QC (Site Specific):

Batch 487712 (CD55786)

CD55773, CD55774, CD55775, CD55776, CD55777, CD55778, CD55779, CD55780, CD55782, CD55783, CD55784, CD55785, CD55786, CD55787, CD55788, CD55789, CD55790, CD55795, CD55796

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(38%), Acetone(<10%), Methylene chloride(136%), Naphthalene(59%)

All MSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(43%), Acetone(<10%), Methylene chloride(151%), Naphthalene(66%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 5.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Coolant: Yes ☒ No ☐
 IPK: Yes ☒ No ☐
 Temp: 6.3 Pg. 1 of 1

Data Delivery/Contact Options:

Fax: ☐
 Phone: ☐
 Email: ☐

Customer: Combifan Project: 621 Bob's Post Rd
 Address: Route 1058 Southbury CT 06488 Report to: Dennis Mac Cosine
 Invoice to: QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample Information - Identification
 Date: 7/12/19
 Matrix Code: CS-1
 GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Water
 Be=Bulk L=Liquid X=X (Other)

PHOENIX LAB ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
55773	CS-1 9'	S	7/10/19	9:45 am	X
55774	CS-2 8'-9'			9:55 am	X
55775	CS-3 8'-9'			10:05 am	X
55776	CS-4 8'-9'			10:15 am	X
55777	CS-5 8'-9'			10:25 am	X
55778	CS-6 10'-11'			12:00 pm	X
55779	CS-7 11'			12:15 pm	X
55780	CS-8 11'			12:30 pm	X
55781	CS-9 10'-11'			12:45 pm	X
55782	CS-10 10'-11'		7/11/19	11:00 am	X
55783	CS-11 11'			11:10 am	X
55784	CS-12 11'			11:20 am	X

Relinquished by: [Signature] Date: 7/12/19 Time: 11:51
 Accepted by: [Signature] Date: 7/12/19 Time: 11:51

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES

APPENDIX B

Limitations On Work Product

LIMITATIONS ON WORK

1. The work performed for the preparation of this report was as described in the scope of services agreed to by the Client. Additional work was not performed without the previous approval of the Client.
2. All work performed for this investigation is warranted to conform with accepted industry practice, and where specified in the scope of work, with ASTM or other standards for such work current at the time the report was prepared.
3. Content of any previous investigations not performed by Cambrian Geological has not been independently verified, unless specifically stated. Content of such previous report has been accepted at face value, unless otherwise noted.
4. Screening of site soils and other materials, if performed, was done in accordance with accepted industry practice by experienced technicians. Screening results, if obtained, may not be used *in lieu* of laboratory results.
5. Testing of site building materials, soils, or groundwater was performed by an independent State-certified analytical laboratory, using methods approved by the Environmental Protection Agency or the State of Connecticut. Methods used are as stated in the report.
6. Unless otherwise noted, no attempt was made to determine the compliance of present or past owners or operators of the site with any Federal, State, or local laws or regulations. Cambrian Geological may comment on specific compliance issues, but has not attempted to determine compliance with all applicable regulations and makes no blanket statement concerning compliance with regulations.
7. Cambrian Geological has prepared this report for the exclusive use of Adelman's Service, Inc. The content and purpose of this report shall remain in strict confidence, and shall only be revealed to persons authorized by Adelman's Service, Inc, or as required by law.
8. Cambrian Geological's findings and conclusions are not scientific certainties, but rather are our professional opinion, based on field data gathered during the course of the investigation, and on laboratory results (if applicable). No other warranty, expressed or implied, is made.