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October 3, 2017
SJB Project No. BD-17-092

Village of Manchester
8 Clifton Street
PO Box 188
Manchester, New York 14504

Attention: Ms. Nancy Johnson, Mayor

Reference: Frederick Property Environmental Restoration Project
NYSDEC Site B00131-8
147 State Street
Manchester, New York

Dear Ms. Johnson:

As authorized by the Village of Manchester, SJB Services, Inc. (SJB) completed a subsurface investigation with analytical soil testing at the referenced property from August 30, 2017 to September 5, 2017. The work was completed in accordance with the 2017 Supplemental Work Plan; Frederick Property Environmental Restoration Project, 147 State Street, NYSDEC Site B00131-8; Manchester, New York, February 2017 (Revised May 2017); provided to SJB from the Village of Manchester.

TEST BORINGS

A Central Mine Equipment (CME) 550-X rotary drill rig was utilized at the site to advance 7 test borings. Soil sampling was performed in accordance with ASTM D-1586 "Standard Test Method for Penetration Test and Split Barrel Sampling of Soils". The locations of the borings were determined by others and are presented in the 2017 Supplemental Work Plan.

SUBSURFACE CONDITIONS

Test boring SB-4 was advanced to a depth of 10 feet below grade. Split spoon sampler refusal was encountered at borings SB-1, SB-2, SB-5, SB-6 and SB-7 at depths ranging from 5.9 feet grade to 9.9 feet below grade. At the request of the NYSDEC, the boring depth of SB-3 was extended beyond 10 feet due to the presence of petroleum impacts. This boring was completed at 12.1 feet with split spoon sampler refusal.

The recovered soils were classified by an Empire geologist who prepared subsurface test boring logs for each location. The logs are attached to this report.

The subsurface soils generally consisted of a sand fill overlying native sand deposits. The fill material was approximately 2 to 8 feet thick at locations SB-1 through SB-6. Deposits of native silty clays were encountered below the sand fills and above the native sand deposits at SB-5 and SB-6.

Free standing water was encountered at SB-3 approximately 10.5 feet below grade.

ENVIRONMENTAL SCREENING

The Empire geologist screened the recovered soils with a MiniRAE Lite photoionization detector (PID). The PID is capable of detecting volatile organic vapor concentrations at a practical threshold of 1.0 part per million (ppm). The geologist also inspected the soils for evidence of environmental degradation (i.e. discoloration, staining, odors, etc.). Elevated PID measurements and evidence of environmental degradation were observed on the soils recovered from borings SB-2 and SB-3, as summarized below.

Boring Location	PID Reading (ppm)	Depth Interval (Feet)	Observations
SB-2	Background	8 - 10	Very slight fuel-like odor, very slight staining
SB-3	60-70; peak 340	6 – 8	Gasoline-like odor
	70 – 120	8 - 10	Gasoline-like odor
	400 – 1,000	10 – 12	Gasoline-like odor
	500 – 1,000	12 – 12.1	Gasoline-like odor

Petroleum product collected on the surface of the observed groundwater in boring SB-3. The product thickness was estimated at 1/8 inch.

PID measurements are recorded on the subsurface logs.

SOIL SAMPLING

As specified in the Supplemental Work Plan, soil samples of the fill material were collected from one boring located in each of the following areas: former pump island excavation, hydraulic lift excavation, and dry well excavation. The fill was sampled from 0–2 inches below grade, 2–12 inches below grade, and 12–24 inches below grade, as specified in the Supplemental Work Plan. In addition, a “native soil/bottom of test boring sample” was collected from each soil boring.

For each sample collected for laboratory analysis, the recovered soils were placed into stainless steel bowls and homogenized before placing the soils into certified, pre-cleaned glass containers, labeled with the date, time, location of project, and stored in an iced cooler at approximately 4 degrees Celsius for transport to Alpha Analytical located in Westborough, Massachusetts. Alpha Analytical is a New York State Department of Health (NYSDOH) certified laboratory. Chain-of-custody documentation was maintained with the samples.

All sampling equipment and drilling rods were decontaminated between sampling intervals and locations to minimize the potential for cross contamination.

ANALYTICAL TESTING

As specified in the Supplemental Work Plan, the samples were analyzed for the following:

- Target Compound List Volatile Organic Compounds (Test Method 8260)
- Target Compound List Semi Volatile Organic Compounds (Test Method 8270)
- Pesticides/Polychlorinated Biphenyls (Test Method 8081/8082)
- Target Analyte List Metals (Test Method 6010/7471)

A blind field duplicate, SB-1A, was collected from SB-1 (12 to 24 inches) and MS/MSD samples were collected at SB-7 (2 to 12 inches) as required by the Supplemental Work Plan.

Sample SB-1B is the “native soil/bottom of the boring sample” for test boring SB-1. It was Empire’s understanding that the site was excavated to a depth of 9 feet. Therefore, Empire did not retain enough soil for analytical testing from a depth of 6 to 8 feet at SB-1. Split spoon refusal was encountered at 8 feet, when Empire attempted to advance the boring. Empire complete another boring approximate 4 feet south of SB-1 to collect the native sample.

The lab reports are attached.

CLOSING

This project and report have been completed for the Village of Manchester in accordance with generally accepted environmental practices. Empire appreciates the opportunity to provide these services. If you have any questions or we can provide further assistance, please contact our office at 716-649-8110.

Respectfully submitted,
EMPIRE GEOSERVICES, INC.



Stephen J. Bochenek
Environmental Geologist



David R. Steiner
Senior Engineering Geologist
Environmental Services Manager

Attachments: Subsurface Logs

Lab Reports

DATE START <u>9/1/2017</u> FINISH <u>9/1/2017</u> SHEET <u>1</u> OF <u>1</u>	SJB SERVICES, INC. SUBSURFACE LOG	 HOLE NO. <u>SB-2</u> SURF. ELEV. _____ G.W. DEPTH <u>See Notes</u>
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PROJECT: <u>BROWNFIELD PROJECT</u> PROJ. NO.: <u>BD-17-092</u>	LOCATION: <u>FREDERICK PROPERTY</u> <u>MANCHESTER, NY</u>
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DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
5	1	4	4				TOPSOIL Brown f-c SAND, tr.gravel, tr.silt (moist, FILL) Contains little f-c Gravel	Driller noted Topsoil at the ground surface Photoionization Detector (PID) measurements recorded in parts per million (ppm) BKG- Background
		7	7		11	BKG		
	2	5	6					
		4	7		10	BKG		
	3	2	2					
		2	4		4	BKG		
	4	3	4					
		2	4		6	BKG		
10	5	16	17				Brown-Gray f-c SAND, some f-c Gravel, little Silt (moist, compact, SM)	Sample No. 5- very slight fuel-oil like odor, very slight staining
		25	50/0.4		42	BKG		
15							Boring completed at 9.9 feet below grade with split spoon refusal Samples collected at the following interval for analytical purposes: 8 to 9.9 feet	No Free Standing Water encountered at Boring Completion
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW		CLASSIFIED BY: <u>Geologist</u>
DRILLER: <u>S. WOLKIEWICZ</u>	DRILL RIG TYPE: <u>CME-550X</u>	
METHOD OF INVESTIGATION <u>ASTM D-1586 USING HOLLOW STEM AUGERS</u>		

DATE START <u>8/31/2017</u> FINISH <u>8/31/2017</u> SHEET <u>1</u> OF <u>1</u>		SJB SERVICES, INC. SUBSURFACE LOG				HOLE NO. <u>SB-3</u> SURF. ELEV. _____ G.W. DEPTH <u>See Notes</u>	
PROJECT: <u>BROWNFIELD PROJECT</u> PROJ. NO.: <u>BD-17-092</u>				LOCATION: <u>FREDERICK PROPERTY</u> <u>MANCHESTER, NY</u>			

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
5	1	4	11				TOPSOIL Brown f-c SAND, little f-c Gravel, tr.silt (moist, FILL)	Driller noted Topsoil at the ground surface
		7	12		18	BKG		Sample No. 2- No recovery
	2	2	2					Photoionization Detector (PID) measurements recovered in parts per million (ppm)
		2	2		4	---	Contains little Silt	
	3	3	5					
		5	3		10	BKG		BKG- Background
	4	3	4				Brown f-c SAND, little f-c Gravel, little Silty Clay (moist, loose, SW / Possible Fill)	
		4	7		8	60-70		
	5	2	6				Gray f-c GRAVEL, little f-c Sand, tr.silt, tr.clay (moist, firm, GW)	
		13	14		19	70-120		
10	6	5	9				Contains some f-c Sand, little Silt	
		14	19		23	400-1000		REF = Sample Spoon Refusal
	7	50/0.1			REF	500-1000	Boring completed at 12.1 feet below grade with split spoon refusal	No Free Standing Water encountered at Boring Completion
15							Samples collected at the following interval for analytical purposes: 10 to 12 feet including TICs	
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW
 DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-550X
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

CLASSIFIED BY: Geologist

DATE START <u>9/1/2017</u> FINISH <u>9/1/2017</u> SHEET <u>1</u> OF <u>1</u>		SJB SERVICES, INC. SUBSURFACE LOG				HOLE NO. <u>SB-4</u> SURF. ELEV <u> </u> G.W. DEPTH <u>See Notes</u>	
PROJECT: <u>BROWNFIELD PROJECT</u>				LOCATION: <u>FREDERICK PROPERTY</u>			
PROJ. NO.: <u>BD-17-092</u>				<u>MANCHESTER, NY</u>			

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
5	1	2	3				TOPSOIL Brown f-c SAND, tr.gravel, tr.silt (moist, FILL)	Driller noted Topsoil at the ground surface Photoionization Detector (PID) measurements recorded in parts per million (ppm) BKG- Background
		4	5		7	BKG		
	2	5	5					
		6	5		11	BKG		
	3	9	7					
		4	3		11	BKG		
	4	3	4					
		5	7		9	BKG		
10	5	6	17				Contains tr.clay (firm)	
		12	18		29	BKG		
15	Boring Complete at 10.0 feet below grade						No Free Standing Water encountered at Boring Completion	
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW		CLASSIFIED BY: <u>Geologist</u>
DRILLER: <u>S. WOLKIEWICZ</u>	DRILL RIG TYPE: <u>CME-550X</u>	
METHOD OF INVESTIGATION <u>ASTM D-1586 USING HOLLOW STEM AUGERS</u>		

DATE START <u>9/5/2017</u> FINISH <u>9/5/2017</u> SHEET <u>1</u> OF <u>1</u>		SJB SERVICES, INC. SUBSURFACE LOG				HOLE NO. <u>SB-5</u> SURF. ELEV. _____ G.W. DEPTH <u>See Notes</u>	
PROJECT: <u>BROWNFIELD PROJECT</u>				LOCATION: <u>FREDERICK PROPERTY</u>			
PROJ. NO.: <u>BD-17-092</u>				<u>MANCHESTER, NY</u>			

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
5	1	1	2				TOPSOIL Brown f-c SAND, little f-c Gravel, tr.silt (moist, FILL)	Driller noted Topsoil at the ground surface Photoionization Detector (PID) measurements recorded in parts per million (ppm) BKG- Background
		4	5		6	BKG	Brown Silty CLAY, little f-c Sand (moist, stiff, CL)	
	2	2	4					
		5	6		9	BKG	Brown f-c SAND, some f-c Gravel, little Silt (moist, firm, SW-SM)	
	3	11	13					
		10	17		23	BKG	Gray f-c GRAVEL, tr.sand (moist, v.compact, GW)	
4	50/0.3			REF	BKG			
10							Boring completed at 6.3 feet below grade with split spoon refusal Samples collected at the following interval for analytical purposes: 4 to 6 feet	
15								
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW		CLASSIFIED BY: <u>Geologist</u>
DRILLER: <u>S. WOLKIEWICZ</u>	DRILL RIG TYPE: <u>CME-550X</u>	
METHOD OF INVESTIGATION <u>ASTM D-1586 USING HOLLOW STEM AUGERS</u>		

DATE START <u>9/5/2017</u> FINISH <u>9/5/2017</u> SHEET <u>1</u> OF <u>1</u>		SJB SERVICES, INC. SUBSURFACE LOG				HOLE NO. <u>SB-6</u> SURF. ELEV <u> </u> G.W. DEPTH <u>See Notes</u>	
PROJECT: <u>BROWNFIELD PROJECT</u> PROJ. NO.: <u>BD-17-092</u>				LOCATION: <u>FREDERICK PROPERTY</u> <u>MANCHESTER, NY</u>			

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
		0/6	6/12	12/18	N			
5	1	3	4				TOPSOIL Brown f-c SAND, little Silt, tr. gravel (moist, FILL)	Driller noted Topsoil at the ground surface
		6	9		10	1.8	Brown Clayey SILT, some f-c Sand, little f-c Gravel (moist, FILL)	Photoionization Detector (PID) measurements recorded in parts per million
	2	2	1				Brown Silty CLAY, little f-c Gravel, little f-c Sand, tr.cinders (moist, FILL)	
		1	2		2	1.1		
	3	7	3				Brown f-c SAND, little f-c Gravel, little Silt, occasional silty clay partings (moist, loose, SM)	BKG- Background
		6	50/0.4		9	1.7	Boring complete at 5.9 feet below grade with split spoon refusal	Sample No. 3- Coarse gravel present in sampling shoe
10							Samples collected at the following intervals for analytical purposes: 0 to 2 inches 2 to 12 inches 12 to 24 inches 4 to 6.9 feet	No Free Standing Water encountered at Boring Completion
15								
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist
 DRILLER: S. WOLKIEWICZ DRILL RIG TYPE: CME-550X
 METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE START <u>9/1/2017</u> FINISH <u>9/1/2017</u> SHEET <u>1</u> OF <u>1</u>		SJB SERVICES, INC. SUBSURFACE LOG				HOLE NO. <u>SB-7</u> SURF. ELEV <u> </u> G.W. DEPTH <u>See Notes</u>	
PROJECT: <u>BROWNFIELD PROJECT</u>				LOCATION: <u>FREDERICK PROPERTY</u>			
PROJ. NO.: <u>BD-17-092</u>				<u>MANCHESTER, NY</u>			

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER				PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES	
		0/6	6/12	12/18	N				
5	1	2	7				TOPSOIL Brown SILT, some f-c Sand, little f-c Gravel, tr.cinders (moist, FILL)	Driller noted Topsoil at the ground surface Photoionization Detector (PID) measurements recorded in parts per million Background- BKG Sample No. 2- Possible cobble fragments REF = Sample Spoon Refusal	
		10	10		17	BKG			
	2	6	6				Gray f-c GRAVEL, little silty Clay, tr.sand (moist, loose, GW/Possible Fill)		
		4	3		10	BKG			
	3	5	8				Contains some Silty Sand (firm)		
		9	7		17	BKG			
	4	9	12				Brown Silty SAND, some f-c Gravel (moist, compact, SM)		
		19	17		31	BKG			
	5	50/0.4			REF	BKG	Boring complete at 8.4 feet below grade with split spoon refusal Samples collected at the following intervals for analytical purposes: 0 to 2 inches 2 to 12 inches (includes MS/MSD) 12 to 24 inches 6 to 8 feet		No Free Standing Water encountered at Boring Completion
	10								
15									
20									

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW		CLASSIFIED BY: <u>Geologist</u>
DRILLER: <u>S. WOLKIEWICZ</u>	DRILL RIG TYPE: <u>CME-550X</u>	
METHOD OF INVESTIGATION <u>ASTM D-1586 USING HOLLOW STEM AUGERS</u>		



ANALYTICAL REPORT

Lab Number:	L1730972
Client:	SJB Services, Inc 5167 South Park Ave. Hamburg, NY 14705
ATTN:	Dave Steiner
Phone:	(716) 649-8110
Project Name:	FREDERICK PROPERTY
Project Number:	BD-17-092
Report Date:	09/11/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1730972-01	SB-1 (0-2 INCHES)	SOIL	MANCHESTER, NEW YORK	08/31/17 12:00	09/01/17
L1730972-02	SB-1 (2-12 INCHES)	SOIL	MANCHESTER, NEW YORK	08/31/17 12:15	09/01/17
L1730972-03	SB-1 (12-24 INCHES)	SOIL	MANCHESTER, NEW YORK	08/31/17 12:30	09/01/17
L1730972-04	SB-3	SOIL	MANCHESTER, NEW YORK	08/31/17 15:30	09/01/17
L1730972-05	SB-1A (12-24 INCHES)	SOIL	MANCHESTER, NEW YORK	08/31/17 09:00	09/01/17
L1730972-06	TRIP BLANK	WATER	MANCHESTER, NEW YORK	08/31/17 00:00	09/01/17

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

L1730972-04: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Total Metals

L1730972-01 through -05: The samples have elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kara Lindquist

Title: Technical Director/Representative

Date: 09/11/17

ORGANICS

VOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01
 Client ID: SB-1 (0-2 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 16:03
 Analyst: JC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.30	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01
 Client ID: SB-1 (0-2 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.39	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
Methyl Acetate	ND		ug/kg	22	0.51	1
Cyclohexane	ND		ug/kg	22	0.47	1
1,4-Dioxane	ND		ug/kg	44	16.	1
Freon-113	ND		ug/kg	22	0.56	1
Methyl cyclohexane	ND		ug/kg	4.4	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02
 Client ID: SB-1 (2-12 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 16:29
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	8.4	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.23	1
Chloroform	ND		ug/kg	1.2	0.31	1
Carbon tetrachloride	ND		ug/kg	0.84	0.29	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.84	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.84	0.25	1
Chlorobenzene	ND		ug/kg	0.84	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.29	1
Bromodichloromethane	ND		ug/kg	0.84	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.19	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.25	1
Benzene	ND		ug/kg	0.84	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.84	0.14	1
Chloromethane	ND		ug/kg	4.2	0.36	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.26	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
Trichloroethene	ND		ug/kg	0.84	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02
 Client ID: SB-1 (2-12 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:15
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.29	1
o-Xylene	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.29	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.42	1
Acetone	ND		ug/kg	8.4	1.9	1
Carbon disulfide	ND		ug/kg	8.4	0.92	1
2-Butanone	ND		ug/kg	8.4	0.58	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	0.20	1
2-Hexanone	ND		ug/kg	8.4	0.56	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Isopropylbenzene	ND		ug/kg	0.84	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
Methyl Acetate	ND		ug/kg	17	0.39	1
Cyclohexane	ND		ug/kg	17	0.36	1
1,4-Dioxane	ND		ug/kg	34	12.	1
Freon-113	ND		ug/kg	17	0.43	1
Methyl cyclohexane	ND		ug/kg	3.4	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	102		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03
 Client ID: SB-1 (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:30
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 16:55
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.24	1
Chloroform	ND		ug/kg	1.3	0.33	1
Carbon tetrachloride	ND		ug/kg	0.88	0.30	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.88	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.28	1
Tetrachloroethene	ND		ug/kg	0.88	0.27	1
Chlorobenzene	ND		ug/kg	0.88	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.31	1
Bromodichloromethane	ND		ug/kg	0.88	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.20	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.26	1
Benzene	ND		ug/kg	0.88	0.17	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.88	0.15	1
Chloromethane	ND		ug/kg	4.4	0.38	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.21	1
Trichloroethene	ND		ug/kg	0.88	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.16	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03
 Client ID: SB-1 (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:30
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.31	1
o-Xylene	ND		ug/kg	1.8	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.30	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.44	1
Acetone	ND		ug/kg	8.8	2.0	1
Carbon disulfide	ND		ug/kg	8.8	0.97	1
2-Butanone	ND		ug/kg	8.8	0.61	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	0.22	1
2-Hexanone	ND		ug/kg	8.8	0.59	1
Bromochloromethane	ND		ug/kg	4.4	0.32	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.35	1
Isopropylbenzene	ND		ug/kg	0.88	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.19	1
Methyl Acetate	ND		ug/kg	18	0.41	1
Cyclohexane	ND		ug/kg	18	0.38	1
1,4-Dioxane	ND		ug/kg	35	13.	1
Freon-113	ND		ug/kg	18	0.45	1
Methyl cyclohexane	ND		ug/kg	3.5	0.21	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	103		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04 D
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/10/17 14:44
 Analyst: MV
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10000	1700	20
1,1-Dichloroethane	ND		ug/kg	1600	280	20
Chloroform	ND		ug/kg	1600	390	20
Carbon tetrachloride	ND		ug/kg	1000	360	20
1,2-Dichloropropane	ND		ug/kg	3700	240	20
Dibromochloromethane	ND		ug/kg	1000	180	20
1,1,2-Trichloroethane	ND		ug/kg	1600	330	20
Tetrachloroethene	ND		ug/kg	1000	320	20
Chlorobenzene	ND		ug/kg	1000	370	20
Trichlorofluoromethane	ND		ug/kg	5300	440	20
1,2-Dichloroethane	ND		ug/kg	1000	260	20
1,1,1-Trichloroethane	ND		ug/kg	1000	370	20
Bromodichloromethane	ND		ug/kg	1000	320	20
trans-1,3-Dichloropropene	ND		ug/kg	1000	220	20
cis-1,3-Dichloropropene	ND		ug/kg	1000	240	20
Bromoform	ND		ug/kg	4200	250	20
1,1,2,2-Tetrachloroethane	ND		ug/kg	1000	310	20
Benzene	ND		ug/kg	1000	200	20
Toluene	650	J	ug/kg	1600	200	20
Ethylbenzene	17000		ug/kg	1000	180	20
Chloromethane	ND		ug/kg	5300	460	20
Bromomethane	ND		ug/kg	2100	360	20
Vinyl chloride	ND		ug/kg	2100	330	20
Chloroethane	ND		ug/kg	2100	330	20
1,1-Dichloroethene	ND		ug/kg	1000	390	20
trans-1,2-Dichloroethene	ND		ug/kg	1600	250	20
Trichloroethene	ND		ug/kg	1000	320	20
1,2-Dichlorobenzene	ND		ug/kg	5300	190	20
1,3-Dichlorobenzene	ND		ug/kg	5300	230	20
1,4-Dichlorobenzene	ND		ug/kg	5300	190	20

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04 D
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2100	160	20
p/m-Xylene	68000		ug/kg	2100	370	20
o-Xylene	6100		ug/kg	2100	360	20
cis-1,2-Dichloroethene	ND		ug/kg	1000	360	20
Styrene	ND		ug/kg	2100	420	20
Dichlorodifluoromethane	ND		ug/kg	10000	530	20
Acetone	ND		ug/kg	10000	2400	20
Carbon disulfide	2100	J	ug/kg	10000	1200	20
2-Butanone	ND		ug/kg	10000	730	20
4-Methyl-2-pentanone	ND		ug/kg	10000	260	20
2-Hexanone	ND		ug/kg	10000	700	20
Bromochloromethane	ND		ug/kg	5300	380	20
1,2-Dibromoethane	ND		ug/kg	4200	210	20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5300	420	20
Isopropylbenzene	2500		ug/kg	1000	200	20
1,2,3-Trichlorobenzene	ND		ug/kg	5300	260	20
1,2,4-Trichlorobenzene	ND		ug/kg	5300	230	20
Methyl Acetate	ND		ug/kg	21000	490	20
Cyclohexane	15000	J	ug/kg	21000	460	20
1,4-Dioxane	ND		ug/kg	42000	15000	20
Freon-113	ND		ug/kg	21000	540	20
Methyl cyclohexane	18000		ug/kg	4200	250	20

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04 D
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	306000	J	ug/kg	20
n-Hexane	28600	NJ	ug/kg	20
Unknown Benzene	25100	J	ug/kg	20
Hexane, 3-methyl-	25900	NJ	ug/kg	20
Pentane, 2-methyl-	48700	NJ	ug/kg	20
Cyclopentane, Methyl-	23200	NJ	ug/kg	20
Unknown	50500	J	ug/kg	20
Unknown Benzene	26400	J	ug/kg	20
Unknown Aromatic	27600	J	ug/kg	20
Unknown	23400	J	ug/kg	20
Octane	26700	NJ	ug/kg	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 11:51
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.3	0.46	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.19	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	0.42	J	ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.53	1
Acetone	ND		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	ND		ug/kg	10	0.73	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
Methyl Acetate	ND		ug/kg	21	0.49	1
Cyclohexane	ND		ug/kg	21	0.46	1
1,4-Dioxane	ND		ug/kg	42	15.	1
Freon-113	ND		ug/kg	21	0.54	1
Methyl cyclohexane	ND		ug/kg	4.2	0.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	108		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-06
 Client ID: TRIP BLANK
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 00:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 09/09/17 15:35
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS****Lab ID:** L1730972-06**Date Collected:** 08/31/17 00:00**Client ID:** TRIP BLANK**Date Received:** 09/01/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	90		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 11:25
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1040242-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 11:25
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1040242-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.19
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 09/09/17 11:25

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1040242-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 10:29
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1040284-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.1	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 10:29
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1040284-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.19
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 09/09/17 10:29

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1040284-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/10/17 12:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1040300-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/10/17 12:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1040300-5					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.
Methyl cyclohexane	ND		ug/kg	200	12.

Tentatively Identified Compounds

Total TIC Compounds	333	J	ug/kg
Unknown	205	J	ug/kg



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/10/17 12:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1040300-5					

Tentatively Identified Compounds

Unknown	128	J	ug/kg
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Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 13:42
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1040365-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/09/17 13:42
 Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1040365-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/09/17 13:42
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 06 Batch: WG1040365-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1040242-3 WG1040242-4								
Methylene chloride	87		82		70-130	6		30
1,1-Dichloroethane	90		81		70-130	11		30
Chloroform	88		93		70-130	6		30
Carbon tetrachloride	84		86		70-130	2		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	86		90		70-130	5		30
1,1,2-Trichloroethane	92		93		70-130	1		30
Tetrachloroethene	92		95		70-130	3		30
Chlorobenzene	89		93		70-130	4		30
Trichlorofluoromethane	90		90		70-139	0		30
1,2-Dichloroethane	83		84		70-130	1		30
1,1,1-Trichloroethane	90		91		70-130	1		30
Bromodichloromethane	82		85		70-130	4		30
trans-1,3-Dichloropropene	86		89		70-130	3		30
cis-1,3-Dichloropropene	80		82		70-130	2		30
Bromoform	86		89		70-130	3		30
1,1,2,2-Tetrachloroethane	91		91		70-130	0		30
Benzene	85		87		70-130	2		30
Toluene	92		95		70-130	3		30
Ethylbenzene	91		95		70-130	4		30
Chloromethane	77		83		52-130	8		30
Bromomethane	95		96		57-147	1		30
Vinyl chloride	74		77		67-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1040242-3 WG1040242-4								
Chloroethane	88		86		50-151	2		30
1,1-Dichloroethene	90		91		65-135	1		30
trans-1,2-Dichloroethene	90		86		70-130	5		30
Trichloroethene	85		87		70-130	2		30
1,2-Dichlorobenzene	92		95		70-130	3		30
1,3-Dichlorobenzene	94		95		70-130	1		30
1,4-Dichlorobenzene	92		93		70-130	1		30
Methyl tert butyl ether	89		84		66-130	6		30
p/m-Xylene	91		96		70-130	5		30
o-Xylene	91		95		70-130	4		30
cis-1,2-Dichloroethene	88		89		70-130	1		30
Styrene	90		91		70-130	1		30
Dichlorodifluoromethane	77		82		30-146	6		30
Acetone	81		68		54-140	17		30
Carbon disulfide	100		114		59-130	13		30
2-Butanone	84		78		70-130	7		30
4-Methyl-2-pentanone	77		76		70-130	1		30
2-Hexanone	70		71		70-130	1		30
Bromochloromethane	91		92		70-130	1		30
1,2-Dibromoethane	86		90		70-130	5		30
1,2-Dibromo-3-chloropropane	80		76		68-130	5		30
Isopropylbenzene	96		98		70-130	2		30
1,2,3-Trichlorobenzene	81		82		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1040242-3 WG1040242-4								
1,2,4-Trichlorobenzene	84		86		70-130	2		30
Methyl Acetate	87		81		51-146	7		30
Cyclohexane	81		82		59-142	1		30
1,4-Dioxane	56	Q	56	Q	65-136	0		30
Freon-113	89		90		50-139	1		30
Methyl cyclohexane	82		84		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	109		112		70-130
4-Bromofluorobenzene	105		102		70-130
Dibromofluoromethane	103		102		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1040284-3 WG1040284-4								
Methylene chloride	96		98		70-130	2		30
1,1-Dichloroethane	101		104		70-130	3		30
Chloroform	96		99		70-130	3		30
Carbon tetrachloride	83		87		70-130	5		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	90		92		70-130	2		30
1,1,2-Trichloroethane	110		111		70-130	1		30
Tetrachloroethene	87		88		70-130	1		30
Chlorobenzene	100		101		70-130	1		30
Trichlorofluoromethane	94		94		70-139	0		30
1,2-Dichloroethane	97		98		70-130	1		30
1,1,1-Trichloroethane	90		94		70-130	4		30
Bromodichloromethane	89		91		70-130	2		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	92		93		70-130	1		30
Bromoform	86		85		70-130	1		30
1,1,2,2-Tetrachloroethane	115		116		70-130	1		30
Benzene	96		98		70-130	2		30
Toluene	101		102		70-130	1		30
Ethylbenzene	100		102		70-130	2		30
Chloromethane	83		85		52-130	2		30
Bromomethane	84		90		57-147	7		30
Vinyl chloride	78		81		67-130	4		30

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1040284-3 WG1040284-4								
Chloroethane	99		100		50-151	1		30
1,1-Dichloroethene	87		90		65-135	3		30
trans-1,2-Dichloroethene	91		93		70-130	2		30
Trichloroethene	89		92		70-130	3		30
1,2-Dichlorobenzene	97		99		70-130	2		30
1,3-Dichlorobenzene	95		97		70-130	2		30
1,4-Dichlorobenzene	95		96		70-130	1		30
Methyl tert butyl ether	99		99		66-130	0		30
p/m-Xylene	98		100		70-130	2		30
o-Xylene	98		100		70-130	2		30
cis-1,2-Dichloroethene	92		96		70-130	4		30
Styrene	98		100		70-130	2		30
Dichlorodifluoromethane	52		53		30-146	2		30
Acetone	105		101		54-140	4		30
Carbon disulfide	106		129		59-130	20		30
2-Butanone	111		104		70-130	7		30
4-Methyl-2-pentanone	96		89		70-130	8		30
2-Hexanone	83		75		70-130	10		30
Bromochloromethane	94		96		70-130	2		30
1,2-Dibromoethane	102		102		70-130	0		30
1,2-Dibromo-3-chloropropane	83		84		68-130	1		30
Isopropylbenzene	100		102		70-130	2		30
1,2,3-Trichlorobenzene	90		91		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1040284-3 WG1040284-4								
1,2,4-Trichlorobenzene	86		88		70-130	2		30
Methyl Acetate	102		96		51-146	6		30
Cyclohexane	96		99		59-142	3		30
1,4-Dioxane	90		81		65-136	11		30
Freon-113	86		89		50-139	3		30
Methyl cyclohexane	89		92		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	116		116		70-130
4-Bromofluorobenzene	112		107		70-130
Dibromofluoromethane	102		103		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1040300-3 WG1040300-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	95		93		70-130	2		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	97		94		70-130	3		30
1,2-Dichloropropane	93		92		70-130	1		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	95		94		70-130	1		30
Tetrachloroethene	97		97		70-130	0		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	94		92		70-139	2		30
1,2-Dichloroethane	93		91		70-130	2		30
1,1,1-Trichloroethane	97		94		70-130	3		30
Bromodichloromethane	92		91		70-130	1		30
trans-1,3-Dichloropropene	94		96		70-130	2		30
cis-1,3-Dichloropropene	92		91		70-130	1		30
Bromoform	85		81		70-130	5		30
1,1,2,2-Tetrachloroethane	99		98		70-130	1		30
Benzene	93		88		70-130	6		30
Toluene	97		92		70-130	5		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	101		92		52-130	9		30
Bromomethane	96		93		57-147	3		30
Vinyl chloride	99		96		67-130	3		30

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1040300-3 WG1040300-4								
Chloroethane	91		86		50-151	6		30
1,1-Dichloroethene	96		90		65-135	6		30
trans-1,2-Dichloroethene	92		91		70-130	1		30
Trichloroethene	88		86		70-130	2		30
1,2-Dichlorobenzene	92		88		70-130	4		30
1,3-Dichlorobenzene	95		92		70-130	3		30
1,4-Dichlorobenzene	94		92		70-130	2		30
Methyl tert butyl ether	92		91		66-130	1		30
p/m-Xylene	88		87		70-130	1		30
o-Xylene	90		89		70-130	1		30
cis-1,2-Dichloroethene	92		90		70-130	2		30
Styrene	90		89		70-130	1		30
Dichlorodifluoromethane	101		96		30-146	5		30
Acetone	98		100		54-140	2		30
Carbon disulfide	94		94		59-130	0		30
2-Butanone	101		96		70-130	5		30
4-Methyl-2-pentanone	101		92		70-130	9		30
2-Hexanone	94		95		70-130	1		30
Bromochloromethane	90		89		70-130	1		30
1,2-Dibromoethane	97		93		70-130	4		30
1,2-Dibromo-3-chloropropane	94		86		68-130	9		30
Isopropylbenzene	98		92		70-130	6		30
1,2,3-Trichlorobenzene	92		90		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1040300-3 WG1040300-4								
1,2,4-Trichlorobenzene	96		92		70-130	4		30
Methyl Acetate	97		94		51-146	3		30
Cyclohexane	94		93		59-142	1		30
1,4-Dioxane	92		98		65-136	6		30
Freon-113	98		92		50-139	6		30
Methyl cyclohexane	91		90		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	108		103		70-130
Dibromofluoromethane	96		99		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1040365-3 WG1040365-4								
Methylene chloride	81		82		70-130	1		20
1,1-Dichloroethane	88		89		70-130	1		20
Chloroform	86		87		70-130	1		20
Carbon tetrachloride	81		82		63-132	1		20
1,2-Dichloropropane	93		93		70-130	0		20
Dibromochloromethane	95		94		63-130	1		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	88		87		70-130	1		20
Chlorobenzene	96		94		75-130	2		20
Trichlorofluoromethane	77		77		62-150	0		20
1,2-Dichloroethane	89		89		70-130	0		20
1,1,1-Trichloroethane	80		80		67-130	0		20
Bromodichloromethane	87		84		67-130	4		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	88		88		70-130	0		20
Bromoform	100		110		54-136	10		20
1,1,2,2-Tetrachloroethane	120		120		67-130	0		20
Benzene	84		85		70-130	1		20
Toluene	99		98		70-130	1		20
Ethylbenzene	99		98		70-130	1		20
Chloromethane	85		86		64-130	1		20
Bromomethane	47		50		39-139	6		20
Vinyl chloride	91		89		55-140	2		20

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1040365-3 WG1040365-4								
Chloroethane	88		86		55-138	2		20
1,1-Dichloroethene	74		74		61-145	0		20
trans-1,2-Dichloroethene	80		79		70-130	1		20
Trichloroethene	85		86		70-130	1		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	86		87		63-130	1		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	110		110		70-130	0		20
cis-1,2-Dichloroethene	83		82		70-130	1		20
Styrene	70		70		70-130	0		20
Dichlorodifluoromethane	92		93		36-147	1		20
Acetone	92		88		58-148	4		20
Carbon disulfide	78		78		51-130	0		20
2-Butanone	110		110		63-138	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	130		120		57-130	8		20
Bromochloromethane	80		82		70-130	2		20
1,2-Dibromoethane	97		94		70-130	3		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20
Isopropylbenzene	100		100		70-130	0		20
1,2,3-Trichlorobenzene	92		94		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 06 Batch: WG1040365-3 WG1040365-4								
1,2,4-Trichlorobenzene	93		95		70-130	2		20
Methyl Acetate	100		100		70-130	0		20
Cyclohexane	88		87		70-130	1		20
1,4-Dioxane	100		92		56-162	8		20
Freon-113	80		79		70-130	1		20
Methyl cyclohexane	84		84		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	89		89		70-130

SEMIVOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01
 Client ID: SB-1 (0-2 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:00
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:42

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 21:45
 Analyst: SZ
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	21	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-01

Date Collected: 08/31/17 12:00

Client ID: SB-1 (0-2 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	60	J	ug/kg	250	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01

Date Collected: 08/31/17 12:00

Client ID: SB-1 (0-2 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	85		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02
 Client ID: SB-1 (2-12 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:42

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 20:26
 Analyst: SZ
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-02

Date Collected: 08/31/17 12:15

Client ID: SB-1 (2-12 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02

Date Collected: 08/31/17 12:15

Client ID: SB-1 (2-12 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	72		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03
 Client ID: SB-1 (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:42

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 20:52
 Analyst: SZ
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-03

Date Collected: 08/31/17 12:30

Client ID: SB-1 (12-24 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	380	65.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	830	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03

Date Collected: 08/31/17 12:30

Client ID: SB-1 (12-24 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	78		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:42

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 02:40
 Analyst: SZ
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	1500		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-04

Date Collected: 08/31/17 15:30

Client ID: SB-3

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	1100		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS****Lab ID:** L1730972-04**Date Collected:** 08/31/17 15:30**Client ID:** SB-3**Date Received:** 09/01/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Tentatively Identified Compounds

Total TIC Compounds	54500	J	ug/kg	1
Unknown Benzene	4920	J	ug/kg	1
Unknown Alkane	1810	J	ug/kg	1
Unknown Benzene	2500	J	ug/kg	1
Indane	1660	NJ	ug/kg	1
Unknown Benzene	1740	J	ug/kg	1
Unknown Alkane	1820	J	ug/kg	1
Unknown Benzene	2690	J	ug/kg	1
Unknown Benzene	2210	J	ug/kg	1
Unknown Alkane	1650	J	ug/kg	1
Unknown Benzene	12600	J	ug/kg	1
Unknown Benzene	2720	J	ug/kg	1
Unknown Benzene	2940	J	ug/kg	1
Unknown Benzene	4530	J	ug/kg	1
Unknown Benzene	8880	J	ug/kg	1
Unknown Alkane	1860	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	99		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	90		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:42

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/08/17 19:33
 Analyst: SZ
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	230	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05

Date Collected: 08/31/17 09:00

Client ID: SB-1A (12-24 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	95		18-120

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 15:37
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1038307-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 15:37
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1038307-1					
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 15:37
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 02:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1038307-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1038307-2 WG1038307-3								
Acenaphthene	81		82		31-137	1		50
Hexachlorobenzene	86		86		40-140	0		50
Bis(2-chloroethyl)ether	80		80		40-140	0		50
2-Chloronaphthalene	74		76		40-140	3		50
3,3'-Dichlorobenzidine	66		65		40-140	2		50
2,4-Dinitrotoluene	101		99		40-132	2		50
2,6-Dinitrotoluene	87		89		40-140	2		50
Fluoranthene	82		83		40-140	1		50
4-Chlorophenyl phenyl ether	84		84		40-140	0		50
4-Bromophenyl phenyl ether	84		86		40-140	2		50
Bis(2-chloroisopropyl)ether	77		77		40-140	0		50
Bis(2-chloroethoxy)methane	82		83		40-117	1		50
Hexachlorobutadiene	75		75		40-140	0		50
Hexachlorocyclopentadiene	55		57		40-140	4		50
Hexachloroethane	77		79		40-140	3		50
Isophorone	74		74		40-140	0		50
Naphthalene	78		78		40-140	0		50
Nitrobenzene	83		82		40-140	1		50
NDPA/DPA	81		84		36-157	4		50
n-Nitrosodi-n-propylamine	72		74		32-121	3		50
Bis(2-ethylhexyl)phthalate	87		88		40-140	1		50
Butyl benzyl phthalate	88		89		40-140	1		50
Di-n-butylphthalate	88		89		40-140	1		50

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1038307-2 WG1038307-3								
Di-n-octylphthalate	90		91		40-140	1		50
Diethyl phthalate	86		86		40-140	0		50
Dimethyl phthalate	74		75		40-140	1		50
Benzo(a)anthracene	82		83		40-140	1		50
Benzo(a)pyrene	88		86		40-140	2		50
Benzo(b)fluoranthene	86		85		40-140	1		50
Benzo(k)fluoranthene	92		90		40-140	2		50
Chrysene	86		85		40-140	1		50
Acenaphthylene	75		76		40-140	1		50
Anthracene	82		82		40-140	0		50
Benzo(ghi)perylene	83		85		40-140	2		50
Fluorene	82		83		40-140	1		50
Phenanthrene	83		84		40-140	1		50
Dibenzo(a,h)anthracene	84		86		40-140	2		50
Indeno(1,2,3-cd)pyrene	82		83		40-140	1		50
Pyrene	83		83		35-142	0		50
Biphenyl	82		84		54-104	2		50
4-Chloroaniline	45		45		40-140	0		50
2-Nitroaniline	87		91		47-134	4		50
3-Nitroaniline	84		82		26-129	2		50
4-Nitroaniline	100		98		41-125	2		50
Dibenzofuran	82		81		40-140	1		50
2-Methylnaphthalene	74		74		40-140	0		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1038307-2 WG1038307-3								
1,2,4,5-Tetrachlorobenzene	81		84		40-117	4		50
Acetophenone	86		88		14-144	2		50
2,4,6-Trichlorophenol	76		77		30-130	1		50
p-Chloro-m-cresol	81		83		26-103	2		50
2-Chlorophenol	88		89		25-102	1		50
2,4-Dichlorophenol	84		83		30-130	1		50
2,4-Dimethylphenol	86		85		30-130	1		50
2-Nitrophenol	94		94		30-130	0		50
4-Nitrophenol	90		88		11-114	2		50
2,4-Dinitrophenol	54		58		4-130	7		50
4,6-Dinitro-o-cresol	95		97		10-130	2		50
Pentachlorophenol	74		74		17-109	0		50
Phenol	82		82		26-90	0		50
2-Methylphenol	85		86		30-130.	1		50
3-Methylphenol/4-Methylphenol	85		86		30-130	1		50
2,4,5-Trichlorophenol	80		80		30-130	0		50
Carbazole	83		83		54-128	0		50
Atrazine	82		82		40-140	0		50
Benzaldehyde	75		75		40-140	0		50
Caprolactam	80		84		15-130	5		50
2,3,4,6-Tetrachlorophenol	86		86		40-140	0		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1730972**Report Date:** 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1038307-2 WG1038307-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		86		25-120
Phenol-d6	81		82		10-120
Nitrobenzene-d5	82		82		23-120
2-Fluorobiphenyl	73		73		30-120
2,4,6-Tribromophenol	88		88		10-136
4-Terphenyl-d14	84		84		18-120

PCBS

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01
 Client ID: SB-1 (0-2 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/06/17 13:06
 Analyst: AF
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 09:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	4.09	1	A
Aroclor 1221	ND		ug/kg	36.1	5.49	1	A
Aroclor 1232	ND		ug/kg	36.1	3.55	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	4.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.94	1	A
Aroclor 1260	ND		ug/kg	36.1	3.77	1	A
Aroclor 1262	ND		ug/kg	36.1	2.97	1	A
Aroclor 1268	ND		ug/kg	36.1	2.56	1	A
PCBs, Total	ND		ug/kg	36.1	2.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02
 Client ID: SB-1 (2-12 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 09:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/06/17 13:21
 Analyst: AF
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.92	1	A
Aroclor 1221	ND		ug/kg	34.6	5.26	1	A
Aroclor 1232	ND		ug/kg	34.6	3.40	1	A
Aroclor 1242	ND		ug/kg	34.6	4.23	1	A
Aroclor 1248	ND		ug/kg	34.6	3.88	1	A
Aroclor 1254	ND		ug/kg	34.6	2.82	1	A
Aroclor 1260	ND		ug/kg	34.6	3.61	1	A
Aroclor 1262	ND		ug/kg	34.6	2.84	1	A
Aroclor 1268	ND		ug/kg	34.6	2.45	1	A
PCBs, Total	ND		ug/kg	34.6	2.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03
 Client ID: SB-1 (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 09:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/06/17 13:37
 Analyst: AF
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	3.87	1	A
Aroclor 1221	ND		ug/kg	34.1	5.19	1	A
Aroclor 1232	ND		ug/kg	34.1	3.36	1	A
Aroclor 1242	ND		ug/kg	34.1	4.17	1	A
Aroclor 1248	ND		ug/kg	34.1	3.83	1	A
Aroclor 1254	ND		ug/kg	34.1	2.78	1	A
Aroclor 1260	ND		ug/kg	34.1	3.56	1	A
Aroclor 1262	ND		ug/kg	34.1	2.80	1	A
Aroclor 1268	ND		ug/kg	34.1	2.41	1	A
PCBs, Total	ND		ug/kg	34.1	2.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 09:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/06/17 13:52
 Analyst: AF
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	4.05	1	A
Aroclor 1221	ND		ug/kg	35.7	5.43	1	A
Aroclor 1232	ND		ug/kg	35.7	3.51	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	4.00	1	A
Aroclor 1254	ND		ug/kg	35.7	2.91	1	A
Aroclor 1260	ND		ug/kg	35.7	3.73	1	A
Aroclor 1262	ND		ug/kg	35.7	2.93	1	A
Aroclor 1268	ND		ug/kg	35.7	2.53	1	A
PCBs, Total	ND		ug/kg	35.7	2.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	154	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	116		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/06/17 14:07
 Analyst: AF
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 09:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.86	1	A
Aroclor 1221	ND		ug/kg	34.0	5.18	1	A
Aroclor 1232	ND		ug/kg	34.0	3.35	1	A
Aroclor 1242	ND		ug/kg	34.0	4.17	1	A
Aroclor 1248	ND		ug/kg	34.0	3.82	1	A
Aroclor 1254	ND		ug/kg	34.0	2.78	1	A
Aroclor 1260	ND		ug/kg	34.0	3.55	1	A
Aroclor 1262	ND		ug/kg	34.0	2.80	1	A
Aroclor 1268	ND		ug/kg	34.0	2.41	1	A
PCBs, Total	ND		ug/kg	34.0	2.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/05/17 12:36
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 09/03/17 17:25
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/04/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-05 Batch: WG1038276-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.01	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1038276-2 WG1038276-3									
Aroclor 1016	72		73		40-140	1		50	A
Aroclor 1260	68		71		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	77		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		81		30-150	B
Decachlorobiphenyl	81		84		30-150	B

PESTICIDES

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-01
 Client ID: SB-1 (0-2 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:00
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 15:07
 Analyst: CD
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.988	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.768	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	0.626	J	ug/kg	1.76	0.406	1	B
4,4'-DDD	ND		ug/kg	1.76	0.626	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	B
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	ND		ug/kg	2.19	0.612	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.3	5.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	110		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-02
 Client ID: SB-1 (2-12 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:15
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 14:27
 Analyst: CD
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.317	1	A
Lindane	ND		ug/kg	0.674	0.302	1	A
Alpha-BHC	ND		ug/kg	0.674	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.614	1	A
Heptachlor	ND		ug/kg	0.810	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.570	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.911	1	A
Endrin	ND		ug/kg	0.674	0.276	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.708	1	A
Endrin ketone	ND		ug/kg	1.62	0.417	1	A
Dieldrin	ND		ug/kg	1.01	0.506	1	A
4,4'-DDE	ND		ug/kg	1.62	0.374	1	B
4,4'-DDD	ND		ug/kg	1.62	0.577	1	A
4,4'-DDT	ND		ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.382	1	A
Endosulfan II	ND		ug/kg	1.62	0.541	1	A
Endosulfan sulfate	ND		ug/kg	0.674	0.321	1	A
Methoxychlor	ND		ug/kg	3.04	0.944	1	A
Toxaphene	ND		ug/kg	30.4	8.50	1	A
cis-Chlordane	ND		ug/kg	2.02	0.564	1	A
trans-Chlordane	ND		ug/kg	2.02	0.534	1	A
Chlordane	ND		ug/kg	13.2	5.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	26	Q	30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-03
 Client ID: SB-1 (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 12:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 15:41
 Analyst: CD
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.827	0.371	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.724	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	B
4,4'-DDD	ND		ug/kg	1.65	0.590	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.391	1	A
Endosulfan II	ND		ug/kg	1.65	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.965	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.07	0.576	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-04
 Client ID: SB-3
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 15:30
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 15:54
 Analyst: CD
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	0.908	JPI	ug/kg	1.74	0.341	1	B
Lindane	ND		ug/kg	0.726	0.324	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.661	1	A
Heptachlor	ND		ug/kg	0.871	0.391	1	A
Aldrin	ND		ug/kg	1.74	0.614	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.980	1	A
Endrin	ND		ug/kg	0.726	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	ND		ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.15	1	A
cis-Chlordane	ND		ug/kg	2.18	0.607	1	A
trans-Chlordane	ND		ug/kg	2.18	0.575	1	A
Chlordane	ND		ug/kg	14.2	5.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	112		30-150	A
Decachlorobiphenyl	123		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**SAMPLE RESULTS**

Lab ID: L1730972-05
 Client ID: SB-1A (12-24 INCHES)
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 08/31/17 09:00
 Date Received: 09/01/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/08/17 16:14
 Analyst: CD
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.324	1	A
Lindane	ND		ug/kg	0.689	0.308	1	A
Alpha-BHC	ND		ug/kg	0.689	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.627	1	A
Heptachlor	ND		ug/kg	0.827	0.371	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.930	1	A
Endrin	ND		ug/kg	0.689	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.426	1	A
Dieldrin	ND		ug/kg	1.03	0.517	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.590	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.391	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.689	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.68	1	A
cis-Chlordane	ND		ug/kg	2.07	0.576	1	A
trans-Chlordane	0.957	J	ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	106		30-150	A
Decachlorobiphenyl	110		30-150	A

Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/11/17 14:40
 Analyst: CD

Extraction Method: EPA 3546
 Extraction Date: 09/04/17 10:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1038344-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	0.686	J	ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.876	A
Endrin	ND		ug/kg	0.649	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.542	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1730972**Project Number:** BD-17-092**Report Date:** 09/11/17**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8081B
Analytical Date: 09/11/17 14:40
Analyst: CDExtraction Method: EPA 3546
Extraction Date: 09/04/17 10:56
Cleanup Method: EPA 3620B
Cleanup Date: 09/04/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05 Batch: WG1038344-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	69		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1038344-2 WG1038344-3									
Delta-BHC	115		113		30-150	2		30	A
Lindane	109		108		30-150	1		30	A
Alpha-BHC	125		123		30-150	2		30	A
Beta-BHC	109		107		30-150	2		30	A
Heptachlor	110		110		30-150	0		30	A
Aldrin	121		118		30-150	3		30	A
Heptachlor epoxide	110		110		30-150	0		30	A
Endrin	111		111		30-150	0		30	A
Endrin aldehyde	82		80		30-150	2		30	A
Endrin ketone	99		97		30-150	2		30	A
Dieldrin	130		128		30-150	2		30	A
4,4'-DDE	124		121		30-150	2		30	A
4,4'-DDD	117		115		30-150	2		30	A
4,4'-DDT	112		111		30-150	1		30	A
Endosulfan I	117		116		30-150	1		30	A
Endosulfan II	115		113		30-150	2		30	A
Endosulfan sulfate	90		88		30-150	2		30	A
Methoxychlor	106		103		30-150	3		30	A
cis-Chlordane	105		103		30-150	2		30	A
trans-Chlordane	109		106		30-150	3		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05 Batch: WG1038344-2 WG1038344-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		91		30-150	B
Decachlorobiphenyl	103		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	112		110		30-150	A
Decachlorobiphenyl	116		116		30-150	A

METALS

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-01
Client ID: SB-1 (0-2 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 88%

Date Collected: 08/31/17 12:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6150		mg/kg	8.94	2.41	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Antimony, Total	0.411	J	mg/kg	4.47	0.340	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Arsenic, Total	2.88		mg/kg	0.894	0.186	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Barium, Total	45.9		mg/kg	0.894	0.156	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Beryllium, Total	0.286	J	mg/kg	0.447	0.030	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.894	0.088	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Calcium, Total	8930		mg/kg	8.94	3.13	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Chromium, Total	8.71		mg/kg	0.894	0.086	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Cobalt, Total	4.18		mg/kg	1.79	0.148	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Copper, Total	11.5		mg/kg	0.894	0.230	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Iron, Total	11300		mg/kg	4.47	0.807	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Lead, Total	9.12		mg/kg	4.47	0.240	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Magnesium, Total	4830		mg/kg	8.94	1.38	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Manganese, Total	464		mg/kg	0.894	0.142	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	09/06/17 08:30	09/06/17 17:42	EPA 7471B	1,7471B	EA
Nickel, Total	8.08		mg/kg	2.23	0.216	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Potassium, Total	542		mg/kg	223	12.9	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Selenium, Total	0.429	J	mg/kg	1.79	0.230	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.894	0.253	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Sodium, Total	29.4	J	mg/kg	179	2.82	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.79	0.282	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Vanadium, Total	13.4		mg/kg	0.894	0.181	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM
Zinc, Total	42.0		mg/kg	4.47	0.262	2	09/05/17 19:37	09/06/17 13:30	EPA 3050B	1,6010C	AM



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-02

Date Collected: 08/31/17 12:15

Client ID: SB-1 (2-12 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3760		mg/kg	8.14	2.20	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Antimony, Total	0.358	J	mg/kg	4.07	0.309	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Arsenic, Total	2.04		mg/kg	0.814	0.169	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Barium, Total	23.4		mg/kg	0.814	0.142	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Beryllium, Total	0.187	J	mg/kg	0.407	0.027	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.814	0.080	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Calcium, Total	26800		mg/kg	8.14	2.85	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Chromium, Total	5.68		mg/kg	0.814	0.078	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Cobalt, Total	2.81		mg/kg	1.63	0.135	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Copper, Total	10.0		mg/kg	0.814	0.210	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Iron, Total	7950		mg/kg	4.07	0.735	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Lead, Total	5.37		mg/kg	4.07	0.218	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Magnesium, Total	12300		mg/kg	8.14	1.25	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Manganese, Total	289		mg/kg	0.814	0.129	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Mercury, Total	0.02	J	mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 17:43	EPA 7471B	1,7471B	EA
Nickel, Total	5.90		mg/kg	2.03	0.197	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Potassium, Total	369		mg/kg	203	11.7	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Selenium, Total	0.220	J	mg/kg	1.63	0.210	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.814	0.230	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Sodium, Total	46.4	J	mg/kg	163	2.56	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.63	0.256	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Vanadium, Total	9.23		mg/kg	0.814	0.165	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM
Zinc, Total	29.7		mg/kg	4.07	0.238	2	09/05/17 19:37	09/06/17 14:49	EPA 3050B	1,6010C	AM



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-03

Date Collected: 08/31/17 12:30

Client ID: SB-1 (12-24 INCHES)

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2380		mg/kg	8.35	2.25	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.17	0.317	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Arsenic, Total	1.50		mg/kg	0.835	0.174	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Barium, Total	12.1		mg/kg	0.835	0.145	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Beryllium, Total	0.108	J	mg/kg	0.417	0.028	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.835	0.082	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Calcium, Total	26500		mg/kg	8.35	2.92	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Chromium, Total	4.10		mg/kg	0.835	0.080	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Cobalt, Total	2.09		mg/kg	1.67	0.138	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Copper, Total	9.39		mg/kg	0.835	0.215	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Iron, Total	6050		mg/kg	4.17	0.754	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Lead, Total	3.75	J	mg/kg	4.17	0.224	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Magnesium, Total	13400		mg/kg	8.35	1.28	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Manganese, Total	236		mg/kg	0.835	0.133	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 17:45	EPA 7471B	1,7471B	EA
Nickel, Total	4.25		mg/kg	2.09	0.202	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Potassium, Total	241		mg/kg	209	12.0	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Selenium, Total	0.234	J	mg/kg	1.67	0.215	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.835	0.236	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Sodium, Total	47.1	J	mg/kg	167	2.63	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.67	0.263	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Vanadium, Total	6.76		mg/kg	0.835	0.169	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM
Zinc, Total	23.4		mg/kg	4.17	0.244	2	09/05/17 19:37	09/06/17 14:54	EPA 3050B	1,6010C	AM



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-04

Date Collected: 08/31/17 15:30

Client ID: SB-3

Date Received: 09/01/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2860		mg/kg	8.56	2.31	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.28	0.325	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Arsenic, Total	1.82		mg/kg	0.856	0.178	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Barium, Total	46.3		mg/kg	0.856	0.149	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Beryllium, Total	0.137	J	mg/kg	0.428	0.028	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.856	0.084	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Calcium, Total	81800		mg/kg	85.6	30.0	20	09/05/17 19:37	09/06/17 16:01	EPA 3050B	1,6010C	AM
Chromium, Total	5.46		mg/kg	0.856	0.082	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Cobalt, Total	2.88		mg/kg	1.71	0.142	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Copper, Total	8.78		mg/kg	0.856	0.221	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Iron, Total	7110		mg/kg	4.28	0.773	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Lead, Total	6.97		mg/kg	4.28	0.229	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Magnesium, Total	34200		mg/kg	8.56	1.32	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Manganese, Total	281		mg/kg	0.856	0.136	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	09/06/17 08:30	09/06/17 17:47	EPA 7471B	1,7471B	EA
Nickel, Total	6.55		mg/kg	2.14	0.207	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Potassium, Total	440		mg/kg	214	12.3	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Selenium, Total	0.514	J	mg/kg	1.71	0.221	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.856	0.242	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Sodium, Total	116	J	mg/kg	171	2.70	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.71	0.270	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Vanadium, Total	8.06		mg/kg	0.856	0.174	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM
Zinc, Total	21.7		mg/kg	4.28	0.251	2	09/05/17 19:37	09/06/17 14:59	EPA 3050B	1,6010C	AM



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-05
Client ID: SB-1A (12-24 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 95%

Date Collected: 08/31/17 09:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2500		mg/kg	8.25	2.23	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Antimony, Total	ND		mg/kg	4.13	0.314	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Arsenic, Total	1.52		mg/kg	0.825	0.172	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Barium, Total	13.5		mg/kg	0.825	0.144	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Beryllium, Total	0.116	J	mg/kg	0.413	0.027	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.825	0.081	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Calcium, Total	30800		mg/kg	8.25	2.89	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Chromium, Total	3.94		mg/kg	0.825	0.079	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Cobalt, Total	2.11		mg/kg	1.65	0.137	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Copper, Total	10.4		mg/kg	0.825	0.213	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Iron, Total	6490		mg/kg	4.13	0.745	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Lead, Total	4.03	J	mg/kg	4.13	0.221	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Magnesium, Total	16300		mg/kg	8.25	1.27	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Manganese, Total	277		mg/kg	0.825	0.131	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Mercury, Total	ND		mg/kg	0.07	0.01	1	09/06/17 08:30	09/06/17 17:49	EPA 7471B	1,7471B	EA
Nickel, Total	4.32		mg/kg	2.06	0.200	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Potassium, Total	272		mg/kg	206	11.9	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Selenium, Total	0.330	J	mg/kg	1.65	0.213	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Silver, Total	ND		mg/kg	0.825	0.234	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Sodium, Total	50.0	J	mg/kg	165	2.60	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Thallium, Total	ND		mg/kg	1.65	0.260	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Vanadium, Total	6.97		mg/kg	0.825	0.168	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM
Zinc, Total	25.2		mg/kg	4.13	0.242	2	09/05/17 19:37	09/06/17 15:04	EPA 3050B	1,6010C	AM



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1038650-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Barium, Total	ND		mg/kg	0.400	0.070	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Copper, Total	0.108	J	mg/kg	0.400	0.103	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Iron, Total	ND		mg/kg	2.00	0.361	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Lead, Total	ND		mg/kg	2.00	0.107	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Potassium, Total	ND		mg/kg	100	5.76	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Silver, Total	ND		mg/kg	0.400	0.113	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Sodium, Total	1.59	J	mg/kg	80.0	1.26	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/05/17 19:37	09/06/17 09:38	1,6010C	AM

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1038746-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/06/17 08:30	09/06/17 12:18	1,7471B	MG



Project Name: FREDERICK PROPERTY

Lab Number: L1730972

Project Number: BD-17-092

Report Date: 09/11/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1038650-2 SRM Lot Number: D093-540								
Aluminum, Total	74		-		55-146	-		
Antimony, Total	179		-		2-204	-		
Arsenic, Total	99		-		70-130	-		
Barium, Total	92		-		83-117	-		
Beryllium, Total	98		-		83-117	-		
Cadmium, Total	95		-		83-117	-		
Calcium, Total	92		-		83-117	-		
Chromium, Total	95		-		80-120	-		
Cobalt, Total	96		-		84-116	-		
Copper, Total	101		-		82-118	-		
Iron, Total	96		-		47-153	-		
Lead, Total	96		-		82-117	-		
Magnesium, Total	85		-		77-124	-		
Manganese, Total	94		-		81-119	-		
Nickel, Total	95		-		83-117	-		
Potassium, Total	85		-		71-129	-		
Selenium, Total	104		-		78-122	-		
Silver, Total	101		-		76-124	-		
Sodium, Total	93		-		72-128	-		
Thallium, Total	97		-		79-121	-		
Vanadium, Total	96		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1038650-2 SRM Lot Number: D093-540					
Zinc, Total	96	-	83-117	-	
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1038746-2 SRM Lot Number: D093-540					
Mercury, Total	84	-	72-128	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1038650-3			QC Sample: L1730839-01			Client ID: MS Sample			
Aluminum, Total	8750	177	9300	310	Q	-	-		75-125	-		20
Antimony, Total	0.531J	44.4	38.4	86		-	-		75-125	-		20
Arsenic, Total	3.37	10.6	12.6	87		-	-		75-125	-		20
Barium, Total	37.2	177	184	83		-	-		75-125	-		20
Beryllium, Total	0.400	4.44	4.01	81		-	-		75-125	-		20
Cadmium, Total	ND	4.52	3.42	76		-	-		75-125	-		20
Calcium, Total	2620	887	8440	656	Q	-	-		75-125	-		20
Chromium, Total	10.9	17.7	25.8	84		-	-		75-125	-		20
Cobalt, Total	4.20	44.4	39.6	80		-	-		75-125	-		20
Copper, Total	11.0	22.2	34.3	105		-	-		75-125	-		20
Iron, Total	11400	88.7	10900	0	Q	-	-		75-125	-		20
Lead, Total	42.5	45.2	60.9	41	Q	-	-		75-125	-		20
Magnesium, Total	2070	887	2850	88		-	-		75-125	-		20
Manganese, Total	200.	44.4	238	86		-	-		75-125	-		20
Nickel, Total	6.85	44.4	41.8	79		-	-		75-125	-		20
Potassium, Total	446.	887	1260	92		-	-		75-125	-		20
Selenium, Total	0.238J	10.6	9.84	92		-	-		75-125	-		20
Silver, Total	ND	26.6	24.8	93		-	-		75-125	-		20
Sodium, Total	271.	887	1050	88		-	-		75-125	-		20
Thallium, Total	ND	10.6	8.39	79		-	-		75-125	-		20
Vanadium, Total	19.3	44.4	57.4	86		-	-		75-125	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1038650-3		QC Sample: L1730839-01		Client ID: MS Sample		
Zinc, Total	28.7	44.4	63.7	79	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-05			QC Batch ID: WG1038746-3		QC Sample: L1730839-01		Client ID: MS Sample		
Mercury, Total	0.070J	0.147	0.21	143	Q	-	80-120	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1730972

Report Date: 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1038650-4 QC Sample: L1730839-01 Client ID: DUP Sample						
Aluminum, Total	8750	8730	mg/kg	0		20
Antimony, Total	0.531J	0.677J	mg/kg	NC		20
Arsenic, Total	3.37	3.42	mg/kg	1		20
Barium, Total	37.2	37.6	mg/kg	1		20
Beryllium, Total	0.400	0.420	mg/kg	5		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	10.9	13.2	mg/kg	19		20
Cobalt, Total	4.20	4.43	mg/kg	5		20
Copper, Total	11.0	11.7	mg/kg	6		20
Lead, Total	42.5	23.7	mg/kg	57	Q	20
Manganese, Total	200.	229	mg/kg	14		20
Nickel, Total	6.85	8.28	mg/kg	19		20
Selenium, Total	0.238J	0.352J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	19.3	20.9	mg/kg	8		20
Zinc, Total	28.7	61.2	mg/kg	72	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1038746-4 QC Sample: L1730839-01 Client ID: DUP Sample						
Mercury, Total	0.070J	0.06J	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-01
Client ID: SB-1 (0-2 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 12:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	09/02/17 10:45	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-02
Client ID: SB-1 (2-12 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 12:15
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	09/02/17 10:45	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-03
Client ID: SB-1 (12-24 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 12:30
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	09/02/17 10:45	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-04
Client ID: SB-3
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 15:30
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	09/02/17 10:45	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

SAMPLE RESULTS

Lab ID: L1730972-05
Client ID: SB-1A (12-24 INCHES)
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 08/31/17 09:00
Date Received: 09/01/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	09/02/17 10:45	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control**Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1730972**Report Date:** 09/11/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1038095-1 QC Sample: L1730891-01 Client ID: DUP Sample						
Solids, Total	92.8	92.7	%	0		20

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No: 09111718:02
Lab Number: L1730972
Report Date: 09/11/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730972-01A	Vial Large Septa unpreserved (4oz)	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1730972-01C	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1730972-01X	Vial MeOH preserved split	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-01Y	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-01Z	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-02A	Vial Large Septa unpreserved (4oz)	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1730972-02C	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1730972-02X	Vial MeOH preserved split	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-02Y	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-02Z	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-03A	Vial Large Septa unpreserved (4oz)	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1730972-03C	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No: 09111718:02
Lab Number: L1730972
Report Date: 09/11/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1730972-03X	Vial MeOH preserved split	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-03Y	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-03Z	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-04A	Vial Large Septa unpreserved (4oz)	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730972-04C	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1730972-04X	Vial MeOH preserved split	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-04Y	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-04Z	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-05A	Vial Large Septa unpreserved (4oz)	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1730972-05C	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1730972-05X	Vial MeOH preserved split	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)
L1730972-05Y	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-05Z	Vial Water preserved split	A	NA		5.5	Y	Absent	06-SEP-17 11:59	NYTCL-8260-R2(14)
L1730972-06A	Vial HCl preserved	A	NA		5.5	Y	Absent		NYTCL-8260-R2(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1730972
Report Date: 09/11/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1731243
Client:	SJB Services, Inc 5167 South Park Ave. Hamburg, NY 14705
ATTN:	Stephen Bochenek
Phone:	(716) 649-8110
Project Name:	FREDERICK PROPERTY
Project Number:	BD-17-092
Report Date:	09/13/17

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1731243-01	SB-2	SOIL	MANCHESTER, NEW YORK	09/01/17 10:00	09/06/17
L1731243-02	SB-4	SOIL	MANCHESTER, NEW YORK	09/01/17 12:00	09/06/17
L1731243-03	SB-7 (0-2")	SOIL	MANCHESTER, NEW YORK	09/01/17 14:00	09/06/17
L1731243-04	SB-7 (2-12")	SOIL	MANCHESTER, NEW YORK	09/01/17 14:15	09/06/17
L1731243-05	SB-7 (12-24")	SOIL	MANCHESTER, NEW YORK	09/01/17 14:30	09/06/17
L1731243-06	SB-7	SOIL	MANCHESTER, NEW YORK	09/01/17 14:45	09/06/17

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L1731243-01 through -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1039482-3/-4 MS/MSD recoveries for aluminum (812%/776%), calcium (10%/67%), iron (2630%/1140%), magnesium (73%/30%), and manganese (144%/132%), performed on L1731243-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1039482-3/-4 MS/MSD recoveries, performed on L1731243-04, are outside the acceptance criteria for antimony (60%/64%) and lead (62%/147%). A post digestion spike was performed and yielded an unacceptable recovery for lead (76%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG1039482-3/-4 MS/MSD RPD, performed on L1731243-04, is above the acceptance criteria for lead (39%).

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/13/17

ORGANICS

VOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-01
 Client ID: SB-2
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 10:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 11:53
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	560	92.	1
1,1-Dichloroethane	ND		ug/kg	84	15.	1
Chloroform	ND		ug/kg	84	21.	1
Carbon tetrachloride	ND		ug/kg	56	19.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	56	9.9	1
1,1,2-Trichloroethane	ND		ug/kg	84	18.	1
Tetrachloroethene	ND		ug/kg	56	17.	1
Chlorobenzene	ND		ug/kg	56	20.	1
Trichlorofluoromethane	ND		ug/kg	280	23.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	56	20.	1
Bromodichloromethane	ND		ug/kg	56	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	56	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	56	13.	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	56	17.	1
Benzene	ND		ug/kg	56	11.	1
Toluene	ND		ug/kg	84	11.	1
Ethylbenzene	110		ug/kg	56	9.5	1
Chloromethane	ND		ug/kg	280	24.	1
Bromomethane	45	J	ug/kg	110	19.	1
Vinyl chloride	ND		ug/kg	110	18.	1
Chloroethane	ND		ug/kg	110	18.	1
1,1-Dichloroethene	ND		ug/kg	56	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	84	14.	1
Trichloroethene	ND		ug/kg	56	17.	1
1,2-Dichlorobenzene	ND		ug/kg	280	10.	1
1,3-Dichlorobenzene	ND		ug/kg	280	12.	1
1,4-Dichlorobenzene	ND		ug/kg	280	10.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-01**Date Collected:** 09/01/17 10:00**Client ID:** SB-2**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	8.6	1
p/m-Xylene	130		ug/kg	110	20.	1
o-Xylene	ND		ug/kg	110	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	19.	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	560	28.	1
Acetone	ND		ug/kg	560	130	1
Carbon disulfide	ND		ug/kg	560	62.	1
2-Butanone	ND		ug/kg	560	39.	1
4-Methyl-2-pentanone	ND		ug/kg	560	14.	1
2-Hexanone	ND		ug/kg	560	37.	1
Bromochloromethane	ND		ug/kg	280	20.	1
1,2-Dibromoethane	ND		ug/kg	220	11.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	22.	1
Isopropylbenzene	31	J	ug/kg	56	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	12.	1
Methyl Acetate	ND		ug/kg	1100	26.	1
Cyclohexane	ND		ug/kg	1100	24.	1
1,4-Dioxane	ND		ug/kg	2200	810	1
Freon-113	ND		ug/kg	1100	29.	1
Methyl cyclohexane	260		ug/kg	220	13.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-02
 Client ID: SB-4
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 12:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 11:17
 Analyst: CBN
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	2.0	J	ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.1	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1
Trichloroethene	0.70	J	ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.18	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-02**Date Collected:** 09/01/17 12:00**Client ID:** SB-4**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.16	1
p/m-Xylene	ND		ug/kg	2.0	0.36	1
o-Xylene	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
Styrene	ND		ug/kg	2.0	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.51	1
Acetone	ND		ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.70	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
2-Hexanone	ND		ug/kg	10	0.68	1
Bromochloromethane	ND		ug/kg	5.1	0.36	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.40	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.22	1
Methyl Acetate	ND		ug/kg	20	0.47	1
Cyclohexane	ND		ug/kg	20	0.44	1
1,4-Dioxane	ND		ug/kg	41	15.	1
Freon-113	ND		ug/kg	20	0.52	1
Methyl cyclohexane	ND		ug/kg	4.1	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-03
 Client ID: SB-7 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 11:44
 Analyst: CBN
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.28	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.32	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.25	1
Trichloroethene	0.79	J	ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-03**Date Collected:** 09/01/17 14:00**Client ID:** SB-7 (0-2")**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.36	1
o-Xylene	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
Styrene	ND		ug/kg	2.1	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	ND		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.71	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
Methyl Acetate	ND		ug/kg	21	0.48	1
Cyclohexane	ND		ug/kg	21	0.45	1
1,4-Dioxane	ND		ug/kg	41	15.	1
Freon-113	ND		ug/kg	21	0.53	1
Methyl cyclohexane	ND		ug/kg	4.1	0.25	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-04
 Client ID: SB-7 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:15
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 12:12
 Analyst: CBN
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1
Trichloroethene	0.84	J	ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-04**Date Collected:** 09/01/17 14:15**Client ID:** SB-7 (2-12")**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
Methyl Acetate	ND		ug/kg	22	0.50	1
Cyclohexane	ND		ug/kg	22	0.47	1
1,4-Dioxane	ND		ug/kg	43	16.	1
Freon-113	ND		ug/kg	22	0.55	1
Methyl cyclohexane	ND		ug/kg	4.3	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05
 Client ID: SB-7 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 13:34
 Analyst: JC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.98	0.30	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.34	1
Bromodichloromethane	ND		ug/kg	0.98	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.22	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.29	1
Benzene	ND		ug/kg	0.98	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	0.17	J	ug/kg	0.98	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1
Trichloroethene	0.61	J	ug/kg	0.98	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05
 Client ID: SB-7 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.33	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.49	1
Acetone	ND		ug/kg	9.8	2.2	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.67	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Isopropylbenzene	ND		ug/kg	0.98	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
Methyl Acetate	ND		ug/kg	20	0.45	1
Cyclohexane	ND		ug/kg	20	0.42	1
1,4-Dioxane	ND		ug/kg	39	14.	1
Freon-113	ND		ug/kg	20	0.50	1
Methyl cyclohexane	ND		ug/kg	3.9	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-06
 Client ID: SB-7
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:45
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 14:02
 Analyst: JC
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.4	J	ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	ND		ug/kg	0.85	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.85	0.14	1
Chloromethane	ND		ug/kg	4.2	0.37	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1
Trichloroethene	0.32	J	ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-06**Date Collected:** 09/01/17 14:45**Client ID:** SB-7**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.42	1
Acetone	ND		ug/kg	8.5	2.0	1
Carbon disulfide	ND		ug/kg	8.5	0.94	1
2-Butanone	ND		ug/kg	8.5	0.59	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	0.21	1
2-Hexanone	ND		ug/kg	8.5	0.57	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.34	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
Methyl Acetate	ND		ug/kg	17	0.39	1
Cyclohexane	ND		ug/kg	17	0.37	1
1,4-Dioxane	ND		ug/kg	34	12.	1
Freon-113	ND		ug/kg	17	0.44	1
Methyl cyclohexane	ND		ug/kg	3.4	0.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 08:26
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1040357-10					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 08:26
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1040357-10					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.
Methyl cyclohexane	ND		ug/kg	200	12.

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 08:26
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1040357-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 10:49
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-06 Batch: WG1041070-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 10:49
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-06 Batch: WG1041070-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.19
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 09/12/17 10:49

Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-06 Batch: WG1041070-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1040357-8 WG1040357-9								
Methylene chloride	114		115		70-130	1		30
1,1-Dichloroethane	118		118		70-130	0		30
Chloroform	110		110		70-130	0		30
Carbon tetrachloride	103		104		70-130	1		30
1,2-Dichloropropane	114		112		70-130	2		30
Dibromochloromethane	99		98		70-130	1		30
1,1,2-Trichloroethane	119		118		70-130	1		30
Tetrachloroethene	100		100		70-130	0		30
Chlorobenzene	108		110		70-130	2		30
Trichlorofluoromethane	122		122		70-139	0		30
1,2-Dichloroethane	110		107		70-130	3		30
1,1,1-Trichloroethane	110		110		70-130	0		30
Bromodichloromethane	100		98		70-130	2		30
trans-1,3-Dichloropropene	106		107		70-130	1		30
cis-1,3-Dichloropropene	101		102		70-130	1		30
Bromoform	91		90		70-130	1		30
1,1,2,2-Tetrachloroethane	122		121		70-130	1		30
Benzene	110		109		70-130	1		30
Toluene	113		113		70-130	0		30
Ethylbenzene	113		113		70-130	0		30
Chloromethane	110		108		52-130	2		30
Bromomethane	93		100		57-147	7		30
Vinyl chloride	101		103		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1040357-8 WG1040357-9								
Chloroethane	109		111		50-151	2		30
1,1-Dichloroethene	107		107		65-135	0		30
trans-1,2-Dichloroethene	105		105		70-130	0		30
Trichloroethene	106		105		70-130	1		30
1,2-Dichlorobenzene	105		105		70-130	0		30
1,3-Dichlorobenzene	104		106		70-130	2		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	107		106		66-130	1		30
p/m-Xylene	110		111		70-130	1		30
o-Xylene	109		110		70-130	1		30
cis-1,2-Dichloroethene	104		105		70-130	1		30
Styrene	108		108		70-130	0		30
Dichlorodifluoromethane	88		89		30-146	1		30
Acetone	105		101		54-140	4		30
Carbon disulfide	98		98		59-130	0		30
2-Butanone	109		105		70-130	4		30
4-Methyl-2-pentanone	94		91		70-130	3		30
2-Hexanone	84		80		70-130	5		30
Bromochloromethane	103		104		70-130	1		30
1,2-Dibromoethane	109		107		70-130	2		30
1,2-Dibromo-3-chloropropane	86		86		68-130	0		30
Isopropylbenzene	113		114		70-130	1		30
1,2,3-Trichlorobenzene	97		97		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1040357-8 WG1040357-9								
1,2,4-Trichlorobenzene	94		95		70-130	1		30
Methyl Acetate	106		103		51-146	3		30
Cyclohexane	122		121		59-142	1		30
1,4-Dioxane	96		91		65-136	5		30
Freon-113	109		110		50-139	1		30
Methyl cyclohexane	109		109		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		112		70-130
Toluene-d8	115		114		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 Batch: WG1041070-3 WG1041070-4								
Methylene chloride	89		93		70-130	4		30
1,1-Dichloroethane	79		84		70-130	6		30
Chloroform	82		83		70-130	1		30
Carbon tetrachloride	72		78		70-130	8		30
1,2-Dichloropropane	82		85		70-130	4		30
Dibromochloromethane	88		90		70-130	2		30
1,1,2-Trichloroethane	107		107		70-130	0		30
Tetrachloroethene	86		93		70-130	8		30
Chlorobenzene	96		99		70-130	3		30
Trichlorofluoromethane	90		95		70-139	5		30
1,2-Dichloroethane	81		82		70-130	1		30
1,1,1-Trichloroethane	78		83		70-130	6		30
Bromodichloromethane	80		84		70-130	5		30
trans-1,3-Dichloropropene	104		107		70-130	3		30
cis-1,3-Dichloropropene	86		90		70-130	5		30
Bromoform	98		97		70-130	1		30
1,1,2,2-Tetrachloroethane	111		113		70-130	2		30
Benzene	81		85		70-130	5		30
Toluene	99		104		70-130	5		30
Ethylbenzene	102		108		70-130	6		30
Chloromethane	73		77		52-130	5		30
Bromomethane	81		82		57-147	1		30
Vinyl chloride	75		79		67-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 Batch: WG1041070-3 WG1041070-4								
Chloroethane	85		85		50-151	0		30
1,1-Dichloroethene	84		89		65-135	6		30
trans-1,2-Dichloroethene	81		86		70-130	6		30
Trichloroethene	80		83		70-130	4		30
1,2-Dichlorobenzene	91		94		70-130	3		30
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	89		90		70-130	1		30
Methyl tert butyl ether	85		87		66-130	2		30
p/m-Xylene	94		98		70-130	4		30
o-Xylene	94		98		70-130	4		30
cis-1,2-Dichloroethene	82		86		70-130	5		30
Styrene	93		96		70-130	3		30
Dichlorodifluoromethane	64		68		30-146	6		30
Acetone	82		81		54-140	1		30
Carbon disulfide	72		82		59-130	13		30
2-Butanone	88		81		70-130	8		30
4-Methyl-2-pentanone	99		102		70-130	3		30
2-Hexanone	90		94		70-130	4		30
Bromochloromethane	75		76		70-130	1		30
1,2-Dibromoethane	101		103		70-130	2		30
1,2-Dibromo-3-chloropropane	97		94		68-130	3		30
Isopropylbenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	98		99		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 Batch: WG1041070-3 WG1041070-4								
1,2,4-Trichlorobenzene	98		100		70-130	2		30
Methyl Acetate	83		82		51-146	1		30
Cyclohexane	81		87		59-142	7		30
1,4-Dioxane	90		91		65-136	1		30
Freon-113	80		85		50-139	6		30
Methyl cyclohexane	83		88		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		108		70-130
Toluene-d8	123		122		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	102		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG1041070-6 WG1041070-7 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
Methylene chloride	ND	22	22	100		22	104		70-130	2		30
1,1-Dichloroethane	ND	22	21	94		20	98		70-130	1		30
Chloroform	ND	22	20	91		20	96		70-130	1		30
Carbon tetrachloride	ND	22	20	89		20	98		70-130	4		30
1,2-Dichloropropane	ND	22	20	89		19	93		70-130	1		30
Dibromochloromethane	ND	22	20	89		19	93		70-130	1		30
1,1,2-Trichloroethane	ND	22	24	107		24	114		70-130	1		30
Tetrachloroethene	ND	22	22	98		24	114		70-130	9		30
Chlorobenzene	ND	22	21	94		22	104		70-130	5		30
Trichlorofluoromethane	ND	22	26	119		27	129		70-139	3		30
1,2-Dichloroethane	ND	22	19	86		19	89		70-130	2		30
1,1,1-Trichloroethane	ND	22	21	97		21	103		70-130	0		30
Bromodichloromethane	ND	22	19	88		19	93		70-130	0		30
trans-1,3-Dichloropropene	ND	22	22	101		23	108		70-130	1		30
cis-1,3-Dichloropropene	ND	22	19	84		18	88		70-130	1		30
Bromoform	ND	22	20	91		20	95		70-130	2		30
1,1,2,2-Tetrachloroethane	ND	22	23	103		22	107		70-130	2		30
Benzene	ND	22	20	90		20	98		70-130	2		30
Toluene	ND	22	24	107		25	119		70-130	5		30
Ethylbenzene	ND	22	24	107		25	121		70-130	7		30
Chloromethane	ND	22	19	88		20	94		52-130	1		30
Bromomethane	ND	22	18	83		19	92		57-147	5		30
Vinyl chloride	ND	22	21	96		22	104		67-130	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG1041070-6 WG1041070-7 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
Chloroethane	ND	22	22	98		23	109		50-151	5		30
1,1-Dichloroethene	ND	22	23	104		23	113		65-135	3		30
trans-1,2-Dichloroethene	ND	22	21	96		22	104		70-130	2		30
Trichloroethene	0.84J	22	21	94		22	104		70-130	5		30
1,2-Dichlorobenzene	ND	22	16	71		15	74		70-130	1		30
1,3-Dichlorobenzene	ND	22	16	73		16	78		70-130	1		30
1,4-Dichlorobenzene	ND	22	16	71		16	75		70-130	1		30
Methyl tert butyl ether	ND	22	20	90		19	92		66-130	3		30
p/m-Xylene	ND	44	43	97		45	109		70-130	6		30
o-Xylene	ND	44	41	94		43	104		70-130	5		30
cis-1,2-Dichloroethene	ND	22	20	91		20	96		70-130	0		30
Styrene	ND	44	37	85		39	93		70-130	4		30
Dichlorodifluoromethane	ND	22	19	86		19	93		30-146	3		30
Acetone	ND	22	16	73		17	80		54-140	4		30
Carbon disulfide	ND	22	20	90		21	100		59-130	5		30
2-Butanone	ND	22	17	76		17	83		70-130	4		30
4-Methyl-2-pentanone	ND	22	20	90		21	102		70-130	7		30
2-Hexanone	ND	22	16	73		17	82		70-130	7		30
Bromochloromethane	ND	22	17	78		17	80		70-130	3		30
1,2-Dibromoethane	ND	22	21	97		22	104		70-130	1		30
1,2-Dibromo-3-chloropropane	ND	22	18	81		18	88		68-130	3		30
Isopropylbenzene	ND	22	22	98		24	114		70-130	9		30
1,2,3-Trichlorobenzene	ND	22	12	54	Q	11	55	Q	70-130	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG1041070-6 WG1041070-7 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
1,2,4-Trichlorobenzene	ND	22	12	55	Q	13	60	Q	70-130	4		30
Methyl Acetate	ND	22	20J	91		19.J	89		51-146	8		30
Cyclohexane	ND	22	21J	96		24	113		59-142	10		30
1,4-Dioxane	ND	1100	1100	104		1500	140	Q	65-136	25		30
Freon-113	ND	22	22J	98		23	108		50-139	4		30
Methyl cyclohexane	ND	22	19	87		24	116		70-130	22		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	102		101		70-130
Toluene-d8	123		124		70-130

SEMIVOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-01
 Client ID: SB-2
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 10:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/11/17 22:58
 Analyst: CB
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	45	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-01

Date Collected: 09/01/17 10:00

Client ID: SB-2

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	34	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-01

Date Collected: 09/01/17 10:00

Client ID: SB-2

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	69		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-02
 Client ID: SB-4
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 12:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/11/17 23:23
 Analyst: CB
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-02

Date Collected: 09/01/17 12:00

Client ID: SB-4

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	49.	1
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-02

Date Collected: 09/01/17 12:00

Client ID: SB-4

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	69		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-03
 Client ID: SB-7 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 04:24
 Analyst: CB
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	27	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	22	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	34	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-03

Date Collected: 09/01/17 14:00

Client ID: SB-7 (0-2")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	20	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	24	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	200	J	ug/kg	240	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-03

Date Collected: 09/01/17 14:00

Client ID: SB-7 (0-2")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	68		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-04
 Client ID: SB-7 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:15
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 03:59
 Analyst: CB
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	29	J	ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	33	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	490		ug/kg	110	21.	1
Benzo(a)pyrene	570		ug/kg	150	45.	1
Benzo(b)fluoranthene	730		ug/kg	110	31.	1
Benzo(k)fluoranthene	240		ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-04

Date Collected: 09/01/17 14:15

Client ID: SB-7 (2-12")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	430		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	71	J	ug/kg	110	36.	1
Benzo(ghi)perylene	280		ug/kg	150	22.	1
Fluorene	21	J	ug/kg	190	18.	1
Phenanthrene	240		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	80	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	340		ug/kg	150	26.	1
Pyrene	510		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	22	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	22	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	89	J	ug/kg	240	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-04

Date Collected: 09/01/17 14:15

Client ID: SB-7 (2-12")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	58		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05
 Client ID: SB-7 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:30
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 04:49
 Analyst: CB
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	110		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	85	J	ug/kg	110	21.	1
Benzo(a)pyrene	88	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	130		ug/kg	110	32.	1
Benzo(k)fluoranthene	43	J	ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-05

Date Collected: 09/01/17 14:30

Client ID: SB-7 (12-24")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	76	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	50	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	35	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	59	J	ug/kg	150	26.	1
Pyrene	93	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05

Date Collected: 09/01/17 14:30

Client ID: SB-7 (12-24")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	57		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-06
 Client ID: SB-7
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:45
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/11/17 23:48
 Analyst: CB
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	ND		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-06

Date Collected: 09/01/17 14:45

Client ID: SB-7

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	240	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-06

Date Collected: 09/01/17 14:45

Client ID: SB-7

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	73		18-120

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	64		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
Acenaphthene	65		66		31-137	2		50
Hexachlorobenzene	64		65		40-140	2		50
Bis(2-chloroethyl)ether	66		69		40-140	4		50
2-Chloronaphthalene	69		70		40-140	1		50
3,3'-Dichlorobenzidine	63		63		40-140	0		50
2,4-Dinitrotoluene	75		76		40-132	1		50
2,6-Dinitrotoluene	77		76		40-140	1		50
Fluoranthene	65		65		40-140	0		50
4-Chlorophenyl phenyl ether	65		65		40-140	0		50
4-Bromophenyl phenyl ether	65		66		40-140	2		50
Bis(2-chloroisopropyl)ether	75		78		40-140	4		50
Bis(2-chloroethoxy)methane	72		73		40-117	1		50
Hexachlorobutadiene	62		66		40-140	6		50
Hexachlorocyclopentadiene	65		67		40-140	3		50
Hexachloroethane	66		70		40-140	6		50
Isophorone	73		75		40-140	3		50
Naphthalene	64		67		40-140	5		50
Nitrobenzene	84		87		40-140	4		50
NDPA/DPA	67		68		36-157	1		50
n-Nitrosodi-n-propylamine	74		77		32-121	4		50
Bis(2-ethylhexyl)phthalate	85		85		40-140	0		50
Butyl benzyl phthalate	80		82		40-140	2		50
Di-n-butylphthalate	75		75		40-140	0		50

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
Di-n-octylphthalate	81		82		40-140	1		50
Diethyl phthalate	72		73		40-140	1		50
Dimethyl phthalate	74		74		40-140	0		50
Benzo(a)anthracene	68		68		40-140	0		50
Benzo(a)pyrene	68		70		40-140	3		50
Benzo(b)fluoranthene	66		67		40-140	2		50
Benzo(k)fluoranthene	66		67		40-140	2		50
Chrysene	64		65		40-140	2		50
Acenaphthylene	72		72		40-140	0		50
Anthracene	66		66		40-140	0		50
Benzo(ghi)perylene	64		66		40-140	3		50
Fluorene	66		67		40-140	2		50
Phenanthrene	63		64		40-140	2		50
Dibenzo(a,h)anthracene	63		65		40-140	3		50
Indeno(1,2,3-cd)pyrene	65		68		40-140	5		50
Pyrene	64		64		35-142	0		50
Biphenyl	72		72		54-104	0		50
4-Chloroaniline	75		75		40-140	0		50
2-Nitroaniline	89		89		47-134	0		50
3-Nitroaniline	74		74		26-129	0		50
4-Nitroaniline	79		79		41-125	0		50
Dibenzofuran	66		66		40-140	0		50
2-Methylnaphthalene	67		68		40-140	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
1,2,4,5-Tetrachlorobenzene	66		67		40-117	2		50
Acetophenone	71		74		14-144	4		50
2,4,6-Trichlorophenol	78		78		30-130	0		50
p-Chloro-m-cresol	81		80		26-103	1		50
2-Chlorophenol	70		74		25-102	6		50
2,4-Dichlorophenol	77		78		30-130	1		50
2,4-Dimethylphenol	88		87		30-130	1		50
2-Nitrophenol	85		88		30-130	3		50
4-Nitrophenol	98		98		11-114	0		50
2,4-Dinitrophenol	59		40		4-130	38		50
4,6-Dinitro-o-cresol	84		79		10-130	6		50
Pentachlorophenol	60		58		17-109	3		50
Phenol	68		69		26-90	1		50
2-Methylphenol	75		78		30-130.	4		50
3-Methylphenol/4-Methylphenol	76		77		30-130	1		50
2,4,5-Trichlorophenol	79		79		30-130	0		50
Carbazole	66		66		54-128	0		50
Atrazine	83		84		40-140	1		50
Benzaldehyde	57		61		40-140	7		50
Caprolactam	93		93		15-130	0		50
2,3,4,6-Tetrachlorophenol	73		72		40-140	1		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		74		25-120
Phenol-d6	74		75		10-120
Nitrobenzene-d5	84		87		23-120
2-Fluorobiphenyl	66		67		30-120
2,4,6-Tribromophenol	64		65		10-136
4-Terphenyl-d14	59		60		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039349-4 WG1039349-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
Acenaphthene	29.J	1520	840	55		890	60		31-137	6		50
Hexachlorobenzene	ND	1520	850	56		910	62		40-140	7		50
Bis(2-chloroethyl)ether	ND	1520	1000	66		1100	75		40-140	10		50
2-Chloronaphthalene	ND	1520	930	61		1000	68		40-140	7		50
3,3'-Dichlorobenzidine	ND	1520	280	18	Q	120J	8	Q	40-140	80	Q	50
2,4-Dinitrotoluene	ND	1520	970	64		1000	68		40-132	3		50
2,6-Dinitrotoluene	ND	1520	960	63		1000	68		40-140	4		50
Fluoranthene	600	1520	900	20	Q	1000	27	Q	40-140	11		50
4-Chlorophenyl phenyl ether	ND	1520	900	59		930	63		40-140	3		50
4-Bromophenyl phenyl ether	ND	1520	970	64		1000	68		40-140	3		50
Bis(2-chloroisopropyl)ether	ND	1520	930	61		990	67		40-140	6		50
Bis(2-chloroethoxy)methane	ND	1520	1000	66		1100	75		40-117	10		50
Hexachlorobutadiene	ND	1520	840	55		900	61		40-140	7		50
Hexachlorocyclopentadiene	ND	1520	500J	33	Q	530	36	Q	40-140	6		50
Hexachloroethane	ND	1520	840	55		900	61		40-140	7		50
Isophorone	ND	1520	920	61		1000	68		40-140	8		50
Naphthalene	33.J	1520	900	59		970	66		40-140	7		50
Nitrobenzene	ND	1520	1000	66		1100	75		40-140	10		50
NDPA/DPA	ND	1520	980	65		1000	68		36-157	2		50
n-Nitrosodi-n-propylamine	ND	1520	990	65		1100	75		32-121	11		50
Bis(2-ethylhexyl)phthalate	ND	1520	890	59		940	64		40-140	5		50
Butyl benzyl phthalate	ND	1520	880	58		920	62		40-140	4		50
Di-n-butylphthalate	ND	1520	900	59		970	66		40-140	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039349-4 WG1039349-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
Di-n-octylphthalate	ND	1520	960	63		1000	68		40-140	4		50
Diethyl phthalate	ND	1520	950	63		1000	68		40-140	5		50
Dimethyl phthalate	ND	1520	970	64		1100	75		40-140	13		50
Benzo(a)anthracene	490	1520	920	28	Q	1000	35	Q	40-140	8		50
Benzo(a)pyrene	570	1520	1000	28	Q	1100	36	Q	40-140	10		50
Benzo(b)fluoranthene	730	1520	1000	18	Q	1100	25	Q	40-140	10		50
Benzo(k)fluoranthene	240	1520	880	42		960	49		40-140	9		50
Chrysene	430	1520	830	26	Q	910	33	Q	40-140	9		50
Acenaphthylene	ND	1520	920	61		1000	68		40-140	8		50
Anthracene	71.J	1520	830	55		890	60		40-140	7		50
Benzo(ghi)perylene	280	1520	900	41		920	43		40-140	2		50
Fluorene	21.J	1520	890	59		930	63		40-140	4		50
Phenanthrene	240	1520	820	38	Q	900	45		40-140	9		50
Dibenzo(a,h)anthracene	80.J	1520	930	61		940	64		40-140	1		50
Indeno(1,2,3-cd)pyrene	340	1520	990	43		1000	45		40-140	1		50
Pyrene	510	1520	850	22	Q	940	29	Q	35-142	10		50
Biphenyl	ND	1520	940	62		1000	68		54-104	6		50
4-Chloroaniline	ND	1520	810	53		840	57		40-140	4		50
2-Nitroaniline	ND	1520	1100	72		1200	81		47-134	9		50
3-Nitroaniline	ND	1520	810	53		820	56		26-129	1		50
4-Nitroaniline	ND	1520	890	59		910	62		41-125	2		50
Dibenzofuran	ND	1520	900	59		940	64		40-140	4		50
2-Methylnaphthalene	22.J	1520	900	59		980	66		40-140	9		50

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039349-4 WG1039349-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
1,2,4,5-Tetrachlorobenzene	ND	1520	930	61		1000	68		40-117	7		50
Acetophenone	ND	1520	940	62		1000	68		14-144	6		50
2,4,6-Trichlorophenol	ND	1520	1000	66		1100	75		30-130	10		50
p-Chloro-m-cresol	ND	1520	1100	72		1200	81		26-103	9		50
2-Chlorophenol	ND	1520	1000	66		1100	75		25-102	10		50
2,4-Dichlorophenol	ND	1520	1100	72		1200	81		30-130	9		50
2,4-Dimethylphenol	ND	1520	740	49		830	56		30-130	11		50
2-Nitrophenol	ND	1520	1100	72		1200	81		30-130	9		50
4-Nitrophenol	ND	1520	1000	66		1100	75		11-114	10		50
2,4-Dinitrophenol	ND	1520	380J	25		300J	20		4-130	24		50
4,6-Dinitro-o-cresol	ND	1520	670	44		490	33		10-130	31		50
Pentachlorophenol	ND	1520	850	56		960	65		17-109	12		50
Phenol	ND	1520	920	61		990	67		26-90	7		50
2-Methylphenol	ND	1520	950	63		1000	68		30-130.	5		50
3-Methylphenol/4-Methylphenol	ND	1520	1000	66		1100	75		30-130	10		50
2,4,5-Trichlorophenol	ND	1520	1200	79		1300	88		30-130	8		50
Carbazole	22.J	1520	970	64		1000	68		54-128	3		50
Atrazine	ND	1520	1100	72		1200	81		40-140	9		50
Benzaldehyde	89.J	1520	920	61		1000	68		40-140	8		50
Caprolactam	ND	1520	1200	79		1300	88		15-130	8		50
2,3,4,6-Tetrachlorophenol	ND	1520	1000	66		1100	75		40-140	10		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731243**Report Date:** 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039349-4 WG1039349-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	65		71		10-136
2-Fluorobiphenyl	60		66		30-120
2-Fluorophenol	70		77		25-120
4-Terphenyl-d14	57		62		18-120
Nitrobenzene-d5	68		76		23-120
Phenol-d6	68		74		10-120

PCBS

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-01
 Client ID: SB-2
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 10:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 03:43
 Analyst: WR
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	4.00	1	A
Aroclor 1221	ND		ug/kg	35.2	5.36	1	A
Aroclor 1232	ND		ug/kg	35.2	3.47	1	A
Aroclor 1242	ND		ug/kg	35.2	4.32	1	A
Aroclor 1248	ND		ug/kg	35.2	3.96	1	A
Aroclor 1254	ND		ug/kg	35.2	2.88	1	A
Aroclor 1260	ND		ug/kg	35.2	3.68	1	A
Aroclor 1262	ND		ug/kg	35.2	2.90	1	A
Aroclor 1268	ND		ug/kg	35.2	2.50	1	A
PCBs, Total	ND		ug/kg	35.2	2.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-02
Client ID: SB-4
Sample Location: MANCHESTER, NEW YORK

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/08/17 03:58
Analyst: WR
Percent Solids: 91%

Date Collected: 09/01/17 12:00
Date Received: 09/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/07/17 11:29
Cleanup Method: EPA 3665A
Cleanup Date: 09/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	4.02	1	A
Aroclor 1221	ND		ug/kg	35.5	5.40	1	A
Aroclor 1232	ND		ug/kg	35.5	3.49	1	A
Aroclor 1242	ND		ug/kg	35.5	4.34	1	A
Aroclor 1248	ND		ug/kg	35.5	3.98	1	A
Aroclor 1254	ND		ug/kg	35.5	2.90	1	A
Aroclor 1260	ND		ug/kg	35.5	3.70	1	A
Aroclor 1262	ND		ug/kg	35.5	2.92	1	A
Aroclor 1268	ND		ug/kg	35.5	2.51	1	A
PCBs, Total	ND		ug/kg	35.5	2.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	136		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	121		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-03
 Client ID: SB-7 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 04:13
 Analyst: WR
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	4.23	1	A
Aroclor 1221	ND		ug/kg	37.3	5.67	1	A
Aroclor 1232	ND		ug/kg	37.3	3.67	1	A
Aroclor 1242	ND		ug/kg	37.3	4.56	1	A
Aroclor 1248	ND		ug/kg	37.3	4.18	1	A
Aroclor 1254	ND		ug/kg	37.3	3.04	1	A
Aroclor 1260	4.26	J	ug/kg	37.3	3.89	1	B
Aroclor 1262	ND		ug/kg	37.3	3.06	1	A
Aroclor 1268	ND		ug/kg	37.3	2.64	1	A
PCBs, Total	4.26	J	ug/kg	37.3	2.64	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-04
 Client ID: SB-7 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:15
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 02:58
 Analyst: WR
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	4.12	1	A
Aroclor 1221	ND		ug/kg	36.3	5.52	1	A
Aroclor 1232	ND		ug/kg	36.3	3.57	1	A
Aroclor 1242	ND		ug/kg	36.3	4.44	1	A
Aroclor 1248	ND		ug/kg	36.3	4.07	1	A
Aroclor 1254	ND		ug/kg	36.3	2.96	1	A
Aroclor 1260	6.39	J	ug/kg	36.3	3.79	1	B
Aroclor 1262	ND		ug/kg	36.3	2.98	1	A
Aroclor 1268	ND		ug/kg	36.3	2.57	1	A
PCBs, Total	6.39	J	ug/kg	36.3	2.57	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05
 Client ID: SB-7 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 04:28
 Analyst: WR
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	4.06	1	A
Aroclor 1221	ND		ug/kg	35.8	5.44	1	A
Aroclor 1232	ND		ug/kg	35.8	3.52	1	A
Aroclor 1242	ND		ug/kg	35.8	4.38	1	A
Aroclor 1248	ND		ug/kg	35.8	4.01	1	A
Aroclor 1254	ND		ug/kg	35.8	2.92	1	A
Aroclor 1260	10.8	J	ug/kg	35.8	3.73	1	A
Aroclor 1262	ND		ug/kg	35.8	2.94	1	A
Aroclor 1268	ND		ug/kg	35.8	2.53	1	A
PCBs, Total	10.8	J	ug/kg	35.8	2.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	108		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-06
 Client ID: SB-7
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:45
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:29
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 04:43
 Analyst: WR
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.91	1	A
Aroclor 1221	ND		ug/kg	34.4	5.24	1	A
Aroclor 1232	ND		ug/kg	34.4	3.39	1	A
Aroclor 1242	ND		ug/kg	34.4	4.22	1	A
Aroclor 1248	ND		ug/kg	34.4	3.86	1	A
Aroclor 1254	ND		ug/kg	34.4	2.81	1	A
Aroclor 1260	ND		ug/kg	34.4	3.60	1	A
Aroclor 1262	ND		ug/kg	34.4	2.83	1	A
Aroclor 1268	ND		ug/kg	34.4	2.44	1	A
PCBs, Total	ND		ug/kg	34.4	2.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	131		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	115		30-150	B

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/08/17 02:13
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039325-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.00	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039325-2 WG1039325-3									
Aroclor 1016	98		107		40-140	9		50	A
Aroclor 1260	113		128		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		97		30-150	A
Decachlorobiphenyl	99		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		96		30-150	B
Decachlorobiphenyl	93		105		30-150	B

Matrix Spike Analysis*Batch Quality Control***Project Name:** FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039325-4 WG1039325-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")													
Aroclor 1016	ND	235	217	92		233	99		40-140	7		50	A
Aroclor 1260	6.39J	235	207	88		228	97		40-140	10		50	B

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		91		30-150	A
Decachlorobiphenyl	86		100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		84		30-150	B
Decachlorobiphenyl	91		103		30-150	B

PESTICIDES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-01
 Client ID: SB-2
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 10:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 18:18
 Analyst: CD
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	13.8	5.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-02
 Client ID: SB-4
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 12:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 18:33
 Analyst: CD
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.955	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	ND		ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.337	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	13.8	5.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-03
 Client ID: SB-7 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 18:48
 Analyst: CD
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	0.644	J	ug/kg	1.10	0.552	1	A
4,4'-DDE	2.66		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.630	1	A
4,4'-DDT	2.05	J	ug/kg	3.31	1.42	1	B
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.582	1	A
Chlordane	ND		ug/kg	14.3	5.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-04
 Client ID: SB-7 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:15
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 19:04
 Analyst: CD
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	7.07		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	4.61		ug/kg	3.29	1.41	1	B
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.2	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	118		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-05
 Client ID: SB-7 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:30
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 19:49
 Analyst: CD
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.729	0.326	1	A
Alpha-BHC	ND		ug/kg	0.729	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.663	1	A
Heptachlor	ND		ug/kg	0.874	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.729	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.765	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	9.62		ug/kg	1.75	0.404	1	A
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	6.84		ug/kg	3.28	1.41	1	B
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.729	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.18	1	A
cis-Chlordane	ND		ug/kg	2.18	0.609	1	A
trans-Chlordane	ND		ug/kg	2.18	0.577	1	A
Chlordane	ND		ug/kg	14.2	5.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731243-06
 Client ID: SB-7
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/01/17 14:45
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 20:05
 Analyst: CD
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.679	0.304	1	A
Alpha-BHC	ND		ug/kg	0.679	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.618	1	A
Heptachlor	ND		ug/kg	0.815	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.574	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.917	1	A
Endrin	ND		ug/kg	0.679	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.713	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.377	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.545	1	A
Endosulfan sulfate	ND		ug/kg	0.679	0.323	1	A
Methoxychlor	ND		ug/kg	3.06	0.951	1	A
Toxaphene	ND		ug/kg	30.6	8.56	1	A
cis-Chlordane	ND		ug/kg	2.04	0.568	1	A
trans-Chlordane	ND		ug/kg	2.04	0.538	1	A
Chlordane	ND		ug/kg	13.2	5.40	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/10/17 21:13
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039327-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.95	0.884	A
Endrin	ND		ug/kg	0.655	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.655	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	12.8	5.21	A

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/10/17 21:13
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039327-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	126		30-150	B
Decachlorobiphenyl	128		30-150	B
2,4,5,6-Tetrachloro-m-xylene	142		30-150	A
Decachlorobiphenyl	142		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039327-2 WG1039327-3									
Delta-BHC	101		119		30-150	16		30	A
Lindane	96		115		30-150	18		30	A
Alpha-BHC	112		134		30-150	18		30	A
Beta-BHC	103		112		30-150	8		30	A
Heptachlor	95		113		30-150	17		30	A
Aldrin	105		127		30-150	19		30	A
Heptachlor epoxide	94		113		30-150	18		30	A
Endrin	97		117		30-150	19		30	A
Endrin aldehyde	78		91		30-150	15		30	A
Endrin ketone	89		106		30-150	17		30	A
Dieldrin	113		136		30-150	18		30	A
4,4'-DDE	109		132		30-150	19		30	A
4,4'-DDD	98		119		30-150	19		30	A
4,4'-DDT	98		118		30-150	19		30	A
Endosulfan I	101		121		30-150	18		30	A
Endosulfan II	98		116		30-150	17		30	A
Endosulfan sulfate	84		100		30-150	17		30	A
Methoxychlor	90		108		30-150	18		30	A
cis-Chlordane	88		112		30-150	24		30	A
trans-Chlordane	87		111		30-150	24		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039327-2 WG1039327-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		122		30-150	B
Decachlorobiphenyl	114		130		30-150	B
2,4,5,6-Tetrachloro-m-xylene	122		143		30-150	A
Decachlorobiphenyl	120		152	Q	30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab ID: SB-7 (2-12") Associated sample(s): 01-06 QC Batch ID: WG1039327-4 WG1039327-5 QC Sample: L1731243-04 Client													
Delta-BHC	ND	36.6	32.4	88		39.2	104		30-150	19		50	A
Lindane	ND	36.6	31.9	87		37.4	99		30-150	16		50	A
Alpha-BHC	ND	36.6	35.0	96		40.4	107		30-150	14		50	A
Beta-BHC	ND	36.6	30.2	82		35.5	94		30-150	16		50	A
Heptachlor	ND	36.6	29.9	82		35.4	94		30-150	17		50	A
Aldrin	ND	36.6	29.4	80		36.8	98		30-150	22		50	A
Heptachlor epoxide	ND	36.6	27.3	75		35.2	93		30-150	25		50	A
Endrin	ND	36.6	26.6	73		36.8	98		30-150	32		50	A
Endrin aldehyde	ND	36.6	17.5	48		25.4	67		30-150	37		50	A
Endrin ketone	ND	36.6	21.8	60		30.5	81		30-150	33		50	A
Dieldrin	ND	36.6	28.3	77		39.2	104		30-150	32		50	A
4,4'-DDE	7.07	36.6	32.4	69		44.4	99		30-150	31		50	A
4,4'-DDD	ND	36.6	25.2	69		36.2	96		30-150	36		50	A
4,4'-DDT	4.61	36.6	32.2	75		41.2	97		30-150	25		50	B
Endosulfan I	ND	36.6	26.5	72		35.7	95		30-150	30		50	A
Endosulfan II	ND	36.6	23.8	65		33.7	89		30-150	34		50	A
Endosulfan sulfate	ND	36.6	18.9	52		27.0	72		30-150	35		50	A
Methoxychlor	ND	36.6	21.1	58		29.9	79		30-150	35		50	A
cis-Chlordane	ND	36.6	25.2	69		34.5	92		30-150	31		50	A
trans-Chlordane	ND	36.6	27.9	76		37.2	99		30-150	29		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731243**Report Date:** 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039327-4 WG1039327-5 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	105		113		30-150	B
Decachlorobiphenyl	81		98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		112		30-150	A
Decachlorobiphenyl	69		89		30-150	A

METALS

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-01
Client ID: SB-2
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 91%

Date Collected: 09/01/17 10:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3410		mg/kg	8.33	2.25	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.16	0.316	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Arsenic, Total	2.72		mg/kg	0.833	0.173	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Barium, Total	51.8		mg/kg	0.833	0.145	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Beryllium, Total	0.183	J	mg/kg	0.416	0.028	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Cadmium, Total	0.225	J	mg/kg	0.833	0.082	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Calcium, Total	69600		mg/kg	8.33	2.92	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Chromium, Total	6.51		mg/kg	0.833	0.080	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Cobalt, Total	3.27		mg/kg	1.67	0.138	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Copper, Total	9.50		mg/kg	0.833	0.215	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Iron, Total	8020		mg/kg	4.16	0.752	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Lead, Total	4.88		mg/kg	4.16	0.223	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Magnesium, Total	30300		mg/kg	8.33	1.28	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Manganese, Total	313		mg/kg	0.833	0.132	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:05	EPA 7471B	1,7471B	EA
Nickel, Total	7.44		mg/kg	2.08	0.202	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Potassium, Total	528		mg/kg	208	12.0	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.67	0.215	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.833	0.236	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Sodium, Total	126	J	mg/kg	167	2.62	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Thallium, Total	0.275	J	mg/kg	1.67	0.262	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Vanadium, Total	9.58		mg/kg	0.833	0.169	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB
Zinc, Total	83.6		mg/kg	4.16	0.244	2	09/07/17 19:00	09/11/17 15:18	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-02

Date Collected: 09/01/17 12:00

Client ID: SB-4

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3510		mg/kg	8.55	2.31	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.28	0.325	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Arsenic, Total	2.68		mg/kg	0.855	0.178	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Barium, Total	41.3		mg/kg	0.855	0.149	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Beryllium, Total	0.154	J	mg/kg	0.428	0.028	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Cadmium, Total	0.231	J	mg/kg	0.855	0.084	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Calcium, Total	63800		mg/kg	8.55	2.99	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Chromium, Total	6.48		mg/kg	0.855	0.082	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Cobalt, Total	3.38		mg/kg	1.71	0.142	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Copper, Total	9.20		mg/kg	0.855	0.221	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Iron, Total	8140		mg/kg	4.28	0.772	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Lead, Total	4.58		mg/kg	4.28	0.229	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Magnesium, Total	23600		mg/kg	8.55	1.32	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Manganese, Total	293		mg/kg	0.855	0.136	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:07	EPA 7471B	1,7471B	EA
Nickel, Total	7.68		mg/kg	2.14	0.207	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Potassium, Total	522		mg/kg	214	12.3	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.71	0.221	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.855	0.242	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Sodium, Total	114	J	mg/kg	171	2.69	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.71	0.269	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Vanadium, Total	9.73		mg/kg	0.855	0.174	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB
Zinc, Total	24.5		mg/kg	4.28	0.250	2	09/07/17 19:00	09/11/17 15:22	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-03
Client ID: SB-7 (0-2")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 88%

Date Collected: 09/01/17 14:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5020		mg/kg	8.86	2.39	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.43	0.336	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Arsenic, Total	3.37		mg/kg	0.886	0.184	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Barium, Total	37.6		mg/kg	0.886	0.154	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Beryllium, Total	0.274	J	mg/kg	0.443	0.029	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Cadmium, Total	0.425	J	mg/kg	0.886	0.087	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Calcium, Total	7450		mg/kg	8.86	3.10	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Chromium, Total	6.55		mg/kg	0.886	0.085	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Cobalt, Total	3.41		mg/kg	1.77	0.147	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Copper, Total	9.63		mg/kg	0.886	0.228	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Iron, Total	8930		mg/kg	4.43	0.800	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Lead, Total	22.1		mg/kg	4.43	0.237	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Magnesium, Total	4340		mg/kg	8.86	1.36	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Manganese, Total	325		mg/kg	0.886	0.141	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:09	EPA 7471B	1,7471B	EA
Nickel, Total	6.56		mg/kg	2.21	0.214	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Potassium, Total	384		mg/kg	221	12.8	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.77	0.228	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.886	0.251	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Sodium, Total	35.7	J	mg/kg	177	2.79	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.279	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Vanadium, Total	11.1		mg/kg	0.886	0.180	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB
Zinc, Total	43.8		mg/kg	4.43	0.260	2	09/07/17 19:00	09/11/17 15:41	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-04
Client ID: SB-7 (2-12")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 88%

Date Collected: 09/01/17 14:15
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5560		mg/kg	8.98	2.42	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.49	0.341	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Arsenic, Total	5.01		mg/kg	0.898	0.187	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Barium, Total	54.4		mg/kg	0.898	0.156	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Beryllium, Total	0.296	J	mg/kg	0.449	0.030	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Cadmium, Total	0.521	J	mg/kg	0.898	0.088	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Calcium, Total	6990		mg/kg	8.98	3.14	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Chromium, Total	8.40		mg/kg	0.898	0.086	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Cobalt, Total	3.79		mg/kg	1.80	0.149	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Copper, Total	12.9		mg/kg	0.898	0.232	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Iron, Total	10100		mg/kg	4.49	0.811	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Lead, Total	52.3		mg/kg	4.49	0.241	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Magnesium, Total	4030		mg/kg	8.98	1.38	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Manganese, Total	357		mg/kg	0.898	0.143	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 17:54	EPA 7471B	1,7471B	EA
Nickel, Total	7.58		mg/kg	2.24	0.217	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Potassium, Total	357		mg/kg	224	12.9	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.80	0.232	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.898	0.254	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Sodium, Total	28.3	J	mg/kg	180	2.83	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.283	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Vanadium, Total	12.1		mg/kg	0.898	0.182	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB
Zinc, Total	67.0		mg/kg	4.49	0.263	2	09/07/17 19:00	09/11/17 14:55	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-05

Date Collected: 09/01/17 14:30

Client ID: SB-7 (12-24")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6840		mg/kg	8.84	2.39	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.42	0.336	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Arsenic, Total	5.09		mg/kg	0.884	0.184	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Barium, Total	54.4		mg/kg	0.884	0.154	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Beryllium, Total	0.354	J	mg/kg	0.442	0.029	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Cadmium, Total	0.522	J	mg/kg	0.884	0.087	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Calcium, Total	21100		mg/kg	8.84	3.10	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Chromium, Total	9.36		mg/kg	0.884	0.085	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Cobalt, Total	5.14		mg/kg	1.77	0.147	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Copper, Total	13.7		mg/kg	0.884	0.228	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Iron, Total	12500		mg/kg	4.42	0.799	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Lead, Total	31.3		mg/kg	4.42	0.237	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Magnesium, Total	11300		mg/kg	8.84	1.36	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Manganese, Total	353		mg/kg	0.884	0.141	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:11	EPA 7471B	1,7471B	EA
Nickel, Total	10.8		mg/kg	2.21	0.214	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Potassium, Total	586		mg/kg	221	12.7	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.77	0.228	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.884	0.250	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Sodium, Total	53.2	J	mg/kg	177	2.78	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.278	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Vanadium, Total	14.7		mg/kg	0.884	0.180	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB
Zinc, Total	56.7		mg/kg	4.42	0.259	2	09/07/17 19:00	09/11/17 15:50	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-06
Client ID: SB-7
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 93%

Date Collected: 09/01/17 14:45
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3340		mg/kg	8.55	2.31	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.27	0.325	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Arsenic, Total	3.32		mg/kg	0.855	0.178	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Barium, Total	44.3		mg/kg	0.855	0.149	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Beryllium, Total	0.188	J	mg/kg	0.427	0.028	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Cadmium, Total	0.214	J	mg/kg	0.855	0.084	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Calcium, Total	76300		mg/kg	8.55	2.99	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Chromium, Total	6.75		mg/kg	0.855	0.082	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Cobalt, Total	3.19		mg/kg	1.71	0.142	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Copper, Total	10.1		mg/kg	0.855	0.220	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Iron, Total	7950		mg/kg	4.27	0.772	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Lead, Total	7.10		mg/kg	4.27	0.229	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Magnesium, Total	34800		mg/kg	8.55	1.32	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Manganese, Total	301		mg/kg	0.855	0.136	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.01	1	09/08/17 08:30	09/08/17 18:13	EPA 7471B	1,7471B	EA
Nickel, Total	7.84		mg/kg	2.14	0.207	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Potassium, Total	595		mg/kg	214	12.3	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.71	0.220	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.855	0.242	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Sodium, Total	116	J	mg/kg	171	2.69	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.71	0.269	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Vanadium, Total	9.03		mg/kg	0.855	0.174	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB
Zinc, Total	20.5		mg/kg	4.27	0.250	2	09/07/17 19:00	09/11/17 15:55	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1039482-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Arsenic, Total	0.084	J	mg/kg	0.400	0.083	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1039575-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/08/17 08:30	09/08/17 17:51	1,7471B	EA



Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039482-2 SRM Lot Number: D093-540								
Aluminum, Total	70		-		55-146	-		
Antimony, Total	145		-		2-204	-		
Arsenic, Total	97		-		70-130	-		
Barium, Total	87		-		83-117	-		
Beryllium, Total	91		-		83-117	-		
Cadmium, Total	88		-		83-117	-		
Calcium, Total	93		-		83-117	-		
Chromium, Total	88		-		80-120	-		
Cobalt, Total	86		-		84-116	-		
Copper, Total	92		-		82-118	-		
Iron, Total	86		-		47-153	-		
Lead, Total	86		-		82-117	-		
Magnesium, Total	77		-		77-124	-		
Manganese, Total	83		-		81-119	-		
Nickel, Total	87		-		83-117	-		
Potassium, Total	79		-		71-129	-		
Selenium, Total	92		-		78-122	-		
Silver, Total	95		-		76-124	-		
Sodium, Total	89		-		72-128	-		
Thallium, Total	86		-		79-121	-		
Vanadium, Total	90		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039482-2 SRM Lot Number: D093-540					
Zinc, Total	88	-	83-117	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039575-2 SRM Lot Number: D093-540					
Mercury, Total	75	-	72-128	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731243

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039482-3 WG1039482-4 QC Sample: L1731243-04 Client ID: SB-7 (2-12")												
Aluminum, Total	5560	175	6980	812	Q	6920	776	Q	75-125	1		20
Antimony, Total	ND	43.7	26.1	60	Q	27.9	64	Q	75-125	7		20
Arsenic, Total	5.01	10.5	14.8	93		14.7	92		75-125	1		20
Barium, Total	54.4	175	204	86		207	87		75-125	1		20
Beryllium, Total	0.296J	4.37	4.31	98		4.40	100		75-125	2		20
Cadmium, Total	0.521J	4.46	4.48	100		4.63	104		75-125	3		20
Calcium, Total	6990	874	7080	10	Q	7580	67	Q	75-125	7		20
Chromium, Total	8.40	17.5	25.8	99		24.5	92		75-125	5		20
Cobalt, Total	3.79	43.7	39.3	81		40.8	84		75-125	4		20
Copper, Total	12.9	21.9	31.9	87		32.6	90		75-125	2		20
Iron, Total	10100	87.4	12400	2630	Q	11100	1140	Q	75-125	11		20
Lead, Total	52.3	44.6	79.8	62	Q	118	147	Q	75-125	39	Q	20
Magnesium, Total	4030	874	4670	73	Q	4290	30	Q	75-125	8		20
Manganese, Total	357.	43.7	420	144	Q	415	132	Q	75-125	1		20
Nickel, Total	7.58	43.7	44.3	84		45.9	87		75-125	4		20
Potassium, Total	357.	874	1210	98		1240	101		75-125	2		20
Selenium, Total	ND	10.5	8.91	85		9.24	88		75-125	4		20
Silver, Total	ND	26.2	25.1	96		26.0	99		75-125	4		20
Sodium, Total	28.3J	874	836	96		859	98		75-125	3		20
Thallium, Total	ND	10.5	8.51	81		8.69	83		75-125	2		20
Vanadium, Total	12.1	43.7	53.8	95		54.8	97		75-125	2		20

Matrix Spike Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Lab Number: L1731243

Project Number: BD-17-092

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039482-3 WG1039482-4 QC Sample: L1731243-04 Client ID: SB-7 (2-12")									
Zinc, Total	67.0	43.7	108	94	110	98	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039575-3 WG1039575-4 QC Sample: L1731243-04 Client ID: SB-7 (2-12")									
Mercury, Total	0.023	0.145	0.14	96	0.12	82	80-120	15	20

INORGANICS & MISCELLANEOUS

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-01
Client ID: SB-2
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/01/17 10:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-02
Client ID: SB-4
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/01/17 12:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Project Name: FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731243**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731243-03**Client ID:** SB-7 (0-2")**Sample Location:** MANCHESTER, NEW YORK**Matrix:** Soil**Date Collected:** 09/01/17 14:00**Date Received:** 09/06/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-04
Client ID: SB-7 (2-12")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/01/17 14:15
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-05
Client ID: SB-7 (12-24")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/01/17 14:30
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731243-06
Client ID: SB-7
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/01/17 14:45
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	09/07/17 12:02	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control**Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731243**Report Date:** 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039323-1 QC Sample: L1731243-04 Client ID: SB-7 (2-12")						
Solids, Total	87.5	87.3	%	0		20

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No: 09131717:00
Lab Number: L1731243
Report Date: 09/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731243-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-01C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-01X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-01Y	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-01Z	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-02A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-02C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-02X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-02Y	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-02Z	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-03A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-03C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)

Project Name: FREDERICK PROPERTY**Lab Number:** L1731243**Project Number:** BD-17-092**Report Date:** 09/13/17**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731243-03X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-03Y	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-03Z	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-04A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04A1	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04A2	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-04B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-04B2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-04C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-04C1	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-04C2	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-04X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04X1	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04X2	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04Y	Vial Water preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04Y1	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-04Y2	Vial Water preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04Z	Vial Water preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-04Z1	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No: 09131717:00
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731243-04Z2	Vial Water preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-05A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-05C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-05X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-05Y	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-05Z	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-06A	Vial Large Septa unpreserved (4oz)	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731243-06C	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731243-06X	Vial MeOH preserved split	A	NA		4.9	Y	Absent		NYTCL-8260-R2(14)
L1731243-06Y	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731243-06Z	Vial Water preserved split	A	NA		4.9	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
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Report Date: 09/13/17

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731243
Report Date: 09/13/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1731245
Client:	SJB Services, Inc 5167 South Park Ave. Hamburg, NY 14705
ATTN:	Stephen Bochenek
Phone:	(716) 649-8110
Project Name:	FREDERICK PROPERTY
Project Number:	BD-17-092
Report Date:	09/13/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1731245-01	SB-6 (0-2")	SOIL	MANCHESTER, NEW YORK	09/05/17 09:00	09/06/17
L1731245-02	SB-6 (2-12")	SOIL	MANCHESTER, NEW YORK	09/05/17 09:15	09/06/17
L1731245-03	SB-6 (12-24")	SOIL	MANCHESTER, NEW YORK	09/05/17 09:30	09/06/17
L1731245-04	SB-6	SOIL	MANCHESTER, NEW YORK	09/05/17 09:40	09/06/17
L1731245-05	SB-5	SOIL	MANCHESTER, NEW YORK	09/05/17 11:00	09/06/17
L1731245-06	SB-1B	SOIL	MANCHESTER, NEW YORK	09/05/17 13:00	09/06/17

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Total Metals

L1731245-01 through -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/13/17

ORGANICS

VOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-01
 Client ID: SB-6 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 14:29
 Analyst: JC
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1
Trichloroethene	0.42	J	ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-01**Date Collected:** 09/05/17 09:00**Client ID:** SB-6 (0-2")**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	ND		ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
Methyl Acetate	ND		ug/kg	20	0.46	1
Cyclohexane	ND		ug/kg	20	0.43	1
1,4-Dioxane	ND		ug/kg	40	14.	1
Freon-113	ND		ug/kg	20	0.51	1
Methyl cyclohexane	ND		ug/kg	4.0	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-02
 Client ID: SB-6 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:15
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 14:57
 Analyst: JC
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.28	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.1	0.45	1
Bromomethane	ND		ug/kg	2.0	0.35	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.25	1
Trichloroethene	0.36	J	ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.19	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-02**Date Collected:** 09/05/17 09:15**Client ID:** SB-6 (2-12")**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.0	0.16	1
p/m-Xylene	ND		ug/kg	2.0	0.36	1
o-Xylene	ND		ug/kg	2.0	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
Styrene	ND		ug/kg	2.0	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.51	1
Acetone	ND		ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.71	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
2-Hexanone	ND		ug/kg	10	0.68	1
Bromochloromethane	ND		ug/kg	5.1	0.36	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.40	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.22	1
Methyl Acetate	ND		ug/kg	20	0.47	1
Cyclohexane	ND		ug/kg	20	0.44	1
1,4-Dioxane	ND		ug/kg	41	15.	1
Freon-113	ND		ug/kg	20	0.53	1
Methyl cyclohexane	ND		ug/kg	4.1	0.24	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	107		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 15:24
 Analyst: JC
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.4	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.94	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.94	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.94	0.28	1
Chlorobenzene	ND		ug/kg	0.94	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.39	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.94	0.33	1
Bromodichloromethane	ND		ug/kg	0.94	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.94	0.22	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.94	0.28	1
Benzene	ND		ug/kg	0.94	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.94	0.16	1
Chloromethane	ND		ug/kg	4.7	0.41	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1
Trichloroethene	ND		ug/kg	0.94	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.17	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.14	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.32	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.47	1
Acetone	ND		ug/kg	9.4	2.1	1
Carbon disulfide	ND		ug/kg	9.4	1.0	1
2-Butanone	ND		ug/kg	9.4	0.65	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	0.23	1
2-Hexanone	ND		ug/kg	9.4	0.62	1
Bromochloromethane	ND		ug/kg	4.7	0.33	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.37	1
Isopropylbenzene	ND		ug/kg	0.94	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.20	1
Methyl Acetate	ND		ug/kg	19	0.43	1
Cyclohexane	ND		ug/kg	19	0.41	1
1,4-Dioxane	ND		ug/kg	38	14.	1
Freon-113	ND		ug/kg	19	0.48	1
Methyl cyclohexane	ND		ug/kg	3.8	0.22	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	123		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-04
 Client ID: SB-6
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:40
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 15:51
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	ND		ug/kg	1.4	0.36	1
Carbon tetrachloride	ND		ug/kg	0.97	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.97	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	ND		ug/kg	0.97	0.29	1
Chlorobenzene	ND		ug/kg	0.97	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.34	1
Bromodichloromethane	ND		ug/kg	0.97	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.22	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.29	1
Benzene	ND		ug/kg	0.97	0.19	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.97	0.16	1
Chloromethane	ND		ug/kg	4.8	0.42	1
Bromomethane	ND		ug/kg	1.9	0.33	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1
Trichloroethene	ND		ug/kg	0.97	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.18	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-04**Date Collected:** 09/05/17 09:40**Client ID:** SB-6**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	ND		ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.33	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.48	1
Acetone	ND		ug/kg	9.7	2.2	1
Carbon disulfide	ND		ug/kg	9.7	1.1	1
2-Butanone	ND		ug/kg	9.7	0.67	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	0.24	1
2-Hexanone	ND		ug/kg	9.7	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.34	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Isopropylbenzene	ND		ug/kg	0.97	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.21	1
Methyl Acetate	ND		ug/kg	19	0.45	1
Cyclohexane	ND		ug/kg	19	0.42	1
1,4-Dioxane	ND		ug/kg	39	14.	1
Freon-113	ND		ug/kg	19	0.50	1
Methyl cyclohexane	ND		ug/kg	3.9	0.23	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-05
 Client ID: SB-5
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 11:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 16:19
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1
Trichloroethene	0.41	J	ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-05**Date Collected:** 09/05/17 11:00**Client ID:** SB-5**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.40	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
Methyl Acetate	ND		ug/kg	22	0.51	1
Cyclohexane	ND		ug/kg	22	0.48	1
1,4-Dioxane	ND		ug/kg	44	16.	1
Freon-113	ND		ug/kg	22	0.57	1
Methyl cyclohexane	ND		ug/kg	4.4	0.26	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	110		70-130

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-06
 Client ID: SB-1B
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 13:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/12/17 16:46
 Analyst: JC
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	7.7	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.21	1
Chloroform	ND		ug/kg	1.2	0.28	1
Carbon tetrachloride	ND		ug/kg	0.77	0.26	1
1,2-Dichloropropane	ND		ug/kg	2.7	0.18	1
Dibromochloromethane	ND		ug/kg	0.77	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.24	1
Tetrachloroethene	ND		ug/kg	0.77	0.23	1
Chlorobenzene	ND		ug/kg	0.77	0.27	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.32	1
1,2-Dichloroethane	ND		ug/kg	0.77	0.19	1
1,1,1-Trichloroethane	ND		ug/kg	0.77	0.27	1
Bromodichloromethane	ND		ug/kg	0.77	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	0.77	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.77	0.18	1
Bromoform	ND		ug/kg	3.1	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.77	0.23	1
Benzene	ND		ug/kg	0.77	0.15	1
Toluene	ND		ug/kg	1.2	0.15	1
Ethylbenzene	ND		ug/kg	0.77	0.13	1
Chloromethane	ND		ug/kg	3.8	0.34	1
Bromomethane	ND		ug/kg	1.5	0.26	1
Vinyl chloride	ND		ug/kg	1.5	0.24	1
Chloroethane	ND		ug/kg	1.5	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.77	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.18	1
Trichloroethene	ND		ug/kg	0.77	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.14	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-06**Date Collected:** 09/05/17 13:00**Client ID:** SB-1B**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.5	0.12	1
p/m-Xylene	ND		ug/kg	1.5	0.27	1
o-Xylene	ND		ug/kg	1.5	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.77	0.26	1
Styrene	ND		ug/kg	1.5	0.31	1
Dichlorodifluoromethane	ND		ug/kg	7.7	0.38	1
Acetone	5.6	J	ug/kg	7.7	1.8	1
Carbon disulfide	ND		ug/kg	7.7	0.85	1
2-Butanone	ND		ug/kg	7.7	0.53	1
4-Methyl-2-pentanone	ND		ug/kg	7.7	0.19	1
2-Hexanone	ND		ug/kg	7.7	0.51	1
Bromochloromethane	ND		ug/kg	3.8	0.27	1
1,2-Dibromoethane	ND		ug/kg	3.1	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	0.30	1
Isopropylbenzene	ND		ug/kg	0.77	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.16	1
Methyl Acetate	ND		ug/kg	15	0.36	1
Cyclohexane	ND		ug/kg	15	0.33	1
1,4-Dioxane	ND		ug/kg	31	11.	1
Freon-113	ND		ug/kg	15	0.40	1
Methyl cyclohexane	ND		ug/kg	3.1	0.18	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 10:49
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1041070-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 10:49
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1041070-5					
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.19
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
Methyl Acetate	ND		ug/kg	20	0.46
Cyclohexane	ND		ug/kg	20	0.43
1,4-Dioxane	ND		ug/kg	40	14.
Freon-113	ND		ug/kg	20	0.51
Methyl cyclohexane	ND		ug/kg	4.0	0.24

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/17 10:49
 Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1041070-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	121		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1041070-3 WG1041070-4								
Methylene chloride	89		93		70-130	4		30
1,1-Dichloroethane	79		84		70-130	6		30
Chloroform	82		83		70-130	1		30
Carbon tetrachloride	72		78		70-130	8		30
1,2-Dichloropropane	82		85		70-130	4		30
Dibromochloromethane	88		90		70-130	2		30
1,1,2-Trichloroethane	107		107		70-130	0		30
Tetrachloroethene	86		93		70-130	8		30
Chlorobenzene	96		99		70-130	3		30
Trichlorofluoromethane	90		95		70-139	5		30
1,2-Dichloroethane	81		82		70-130	1		30
1,1,1-Trichloroethane	78		83		70-130	6		30
Bromodichloromethane	80		84		70-130	5		30
trans-1,3-Dichloropropene	104		107		70-130	3		30
cis-1,3-Dichloropropene	86		90		70-130	5		30
Bromoform	98		97		70-130	1		30
1,1,2,2-Tetrachloroethane	111		113		70-130	2		30
Benzene	81		85		70-130	5		30
Toluene	99		104		70-130	5		30
Ethylbenzene	102		108		70-130	6		30
Chloromethane	73		77		52-130	5		30
Bromomethane	81		82		57-147	1		30
Vinyl chloride	75		79		67-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1041070-3 WG1041070-4								
Chloroethane	85		85		50-151	0		30
1,1-Dichloroethene	84		89		65-135	6		30
trans-1,2-Dichloroethene	81		86		70-130	6		30
Trichloroethene	80		83		70-130	4		30
1,2-Dichlorobenzene	91		94		70-130	3		30
1,3-Dichlorobenzene	91		92		70-130	1		30
1,4-Dichlorobenzene	89		90		70-130	1		30
Methyl tert butyl ether	85		87		66-130	2		30
p/m-Xylene	94		98		70-130	4		30
o-Xylene	94		98		70-130	4		30
cis-1,2-Dichloroethene	82		86		70-130	5		30
Styrene	93		96		70-130	3		30
Dichlorodifluoromethane	64		68		30-146	6		30
Acetone	82		81		54-140	1		30
Carbon disulfide	72		82		59-130	13		30
2-Butanone	88		81		70-130	8		30
4-Methyl-2-pentanone	99		102		70-130	3		30
2-Hexanone	90		94		70-130	4		30
Bromochloromethane	75		76		70-130	1		30
1,2-Dibromoethane	101		103		70-130	2		30
1,2-Dibromo-3-chloropropane	97		94		68-130	3		30
Isopropylbenzene	99		102		70-130	3		30
1,2,3-Trichlorobenzene	98		99		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1041070-3 WG1041070-4								
1,2,4-Trichlorobenzene	98		100		70-130	2		30
Methyl Acetate	83		82		51-146	1		30
Cyclohexane	81		87		59-142	7		30
1,4-Dioxane	90		91		65-136	1		30
Freon-113	80		85		50-139	6		30
Methyl cyclohexane	83		88		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		108		70-130
Toluene-d8	123		122		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-01
 Client ID: SB-6 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:00

Date Received: 09/06/17

Field Prep: Not Specified

Extraction Method: EPA 3546

Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 05:15
 Analyst: CB
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	62	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	61	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-01

Date Collected: 09/05/17 09:00

Client ID: SB-6 (0-2")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	48	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	54	J	ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	240	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-01

Date Collected: 09/05/17 09:00

Client ID: SB-6 (0-2")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	70		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-02
 Client ID: SB-6 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:15
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 05:40
 Analyst: CB
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	24	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-02

Date Collected: 09/05/17 09:15

Client ID: SB-6 (2-12")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	22	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	64.	1
Benzaldehyde	ND		ug/kg	240	50.	1
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-02

Date Collected: 09/05/17 09:15

Client ID: SB-6 (2-12")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	65		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 06:05
 Analyst: CB
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	280	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03

Date Collected: 09/05/17 09:30

Client ID: SB-6 (12-24")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	58		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-04
 Client ID: SB-6
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:40
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 00:13
 Analyst: CB
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-04**Date Collected:** 09/05/17 09:40**Client ID:** SB-6**Date Received:** 09/06/17**Sample Location:** MANCHESTER, NEW YORK**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	960	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	96.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-04

Date Collected: 09/05/17 09:40

Client ID: SB-6

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	58		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-05
 Client ID: SB-5
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 11:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 01:03
 Analyst: CB
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-05

Date Collected: 09/05/17 11:00

Client ID: SB-5

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	64.	1
Benzaldehyde	ND		ug/kg	240	50.	1
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-05

Date Collected: 09/05/17 11:00

Client ID: SB-5

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	61		10-136
4-Terphenyl-d14	57		18-120

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-06
 Client ID: SB-1B
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 13:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/17 00:38
 Analyst: CB
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-06

Date Collected: 09/05/17 13:00

Client ID: SB-1B

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	250	50.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-06

Date Collected: 09/05/17 13:00

Client ID: SB-1B

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	60		18-120

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/08/17 07:25
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1039349-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	64		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
Acenaphthene	65		66		31-137	2		50
Hexachlorobenzene	64		65		40-140	2		50
Bis(2-chloroethyl)ether	66		69		40-140	4		50
2-Chloronaphthalene	69		70		40-140	1		50
3,3'-Dichlorobenzidine	63		63		40-140	0		50
2,4-Dinitrotoluene	75		76		40-132	1		50
2,6-Dinitrotoluene	77		76		40-140	1		50
Fluoranthene	65		65		40-140	0		50
4-Chlorophenyl phenyl ether	65		65		40-140	0		50
4-Bromophenyl phenyl ether	65		66		40-140	2		50
Bis(2-chloroisopropyl)ether	75		78		40-140	4		50
Bis(2-chloroethoxy)methane	72		73		40-117	1		50
Hexachlorobutadiene	62		66		40-140	6		50
Hexachlorocyclopentadiene	65		67		40-140	3		50
Hexachloroethane	66		70		40-140	6		50
Isophorone	73		75		40-140	3		50
Naphthalene	64		67		40-140	5		50
Nitrobenzene	84		87		40-140	4		50
NDPA/DPA	67		68		36-157	1		50
n-Nitrosodi-n-propylamine	74		77		32-121	4		50
Bis(2-ethylhexyl)phthalate	85		85		40-140	0		50
Butyl benzyl phthalate	80		82		40-140	2		50
Di-n-butylphthalate	75		75		40-140	0		50

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
Di-n-octylphthalate	81		82		40-140	1		50
Diethyl phthalate	72		73		40-140	1		50
Dimethyl phthalate	74		74		40-140	0		50
Benzo(a)anthracene	68		68		40-140	0		50
Benzo(a)pyrene	68		70		40-140	3		50
Benzo(b)fluoranthene	66		67		40-140	2		50
Benzo(k)fluoranthene	66		67		40-140	2		50
Chrysene	64		65		40-140	2		50
Acenaphthylene	72		72		40-140	0		50
Anthracene	66		66		40-140	0		50
Benzo(ghi)perylene	64		66		40-140	3		50
Fluorene	66		67		40-140	2		50
Phenanthrene	63		64		40-140	2		50
Dibenzo(a,h)anthracene	63		65		40-140	3		50
Indeno(1,2,3-cd)pyrene	65		68		40-140	5		50
Pyrene	64		64		35-142	0		50
Biphenyl	72		72		54-104	0		50
4-Chloroaniline	75		75		40-140	0		50
2-Nitroaniline	89		89		47-134	0		50
3-Nitroaniline	74		74		26-129	0		50
4-Nitroaniline	79		79		41-125	0		50
Dibenzofuran	66		66		40-140	0		50
2-Methylnaphthalene	67		68		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3								
1,2,4,5-Tetrachlorobenzene	66		67		40-117	2		50
Acetophenone	71		74		14-144	4		50
2,4,6-Trichlorophenol	78		78		30-130	0		50
p-Chloro-m-cresol	81		80		26-103	1		50
2-Chlorophenol	70		74		25-102	6		50
2,4-Dichlorophenol	77		78		30-130	1		50
2,4-Dimethylphenol	88		87		30-130	1		50
2-Nitrophenol	85		88		30-130	3		50
4-Nitrophenol	98		98		11-114	0		50
2,4-Dinitrophenol	59		40		4-130	38		50
4,6-Dinitro-o-cresol	84		79		10-130	6		50
Pentachlorophenol	60		58		17-109	3		50
Phenol	68		69		26-90	1		50
2-Methylphenol	75		78		30-130.	4		50
3-Methylphenol/4-Methylphenol	76		77		30-130	1		50
2,4,5-Trichlorophenol	79		79		30-130	0		50
Carbazole	66		66		54-128	0		50
Atrazine	83		84		40-140	1		50
Benzaldehyde	57		61		40-140	7		50
Caprolactam	93		93		15-130	0		50
2,3,4,6-Tetrachlorophenol	73		72		40-140	1		50

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1039349-2 WG1039349-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		74		25-120
Phenol-d6	74		75		10-120
Nitrobenzene-d5	84		87		23-120
2-Fluorobiphenyl	66		67		30-120
2,4,6-Tribromophenol	64		65		10-136
4-Terphenyl-d14	59		60		18-120

PCBS

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-01
 Client ID: SB-6 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 04:58
 Analyst: WR
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	4.24	1	A
Aroclor 1221	ND		ug/kg	37.4	5.69	1	A
Aroclor 1232	ND		ug/kg	37.4	3.68	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	4.20	1	A
Aroclor 1254	ND		ug/kg	37.4	3.05	1	A
Aroclor 1260	5.19	J	ug/kg	37.4	3.90	1	A
Aroclor 1262	ND		ug/kg	37.4	3.08	1	A
Aroclor 1268	ND		ug/kg	37.4	2.65	1	A
PCBs, Total	5.19	J	ug/kg	37.4	2.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-02
Client ID: SB-6 (2-12")
Sample Location: MANCHESTER, NEW YORK

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/08/17 05:13
Analyst: WR
Percent Solids: 89%

Date Collected: 09/05/17 09:15
Date Received: 09/06/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 09/07/17 11:02
Cleanup Method: EPA 3665A
Cleanup Date: 09/07/17
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.58	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	ND		ug/kg	36.7	2.99	1	A
Aroclor 1260	18.5	J	ug/kg	36.7	3.83	1	B
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	18.5	J	ug/kg	36.7	2.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	119		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	116		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 05:28
 Analyst: WR
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	4.36	1	A
Aroclor 1221	ND		ug/kg	38.4	5.85	1	A
Aroclor 1232	ND		ug/kg	38.4	3.78	1	A
Aroclor 1242	ND		ug/kg	38.4	4.71	1	A
Aroclor 1248	ND		ug/kg	38.4	4.31	1	A
Aroclor 1254	25.1	J	ug/kg	38.4	3.14	1	A
Aroclor 1260	21.1	J	ug/kg	38.4	4.01	1	A
Aroclor 1262	ND		ug/kg	38.4	3.16	1	A
Aroclor 1268	ND		ug/kg	38.4	2.72	1	A
PCBs, Total	46.2	J	ug/kg	38.4	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-04
 Client ID: SB-6
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:40
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 05:43
 Analyst: WR
 Percent Solids: 82%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.8	4.51	1	A
Aroclor 1221	ND		ug/kg	39.8	6.05	1	A
Aroclor 1232	ND		ug/kg	39.8	3.91	1	A
Aroclor 1242	ND		ug/kg	39.8	4.86	1	A
Aroclor 1248	ND		ug/kg	39.8	4.46	1	A
Aroclor 1254	ND		ug/kg	39.8	3.24	1	A
Aroclor 1260	12.1	J	ug/kg	39.8	4.15	1	B
Aroclor 1262	ND		ug/kg	39.8	3.27	1	A
Aroclor 1268	ND		ug/kg	39.8	2.81	1	A
PCBs, Total	12.1	J	ug/kg	39.8	2.81	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	111		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-05
 Client ID: SB-5
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 11:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 09:42
 Analyst: WR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	4.10	1	A
Aroclor 1221	ND		ug/kg	36.1	5.50	1	A
Aroclor 1232	ND		ug/kg	36.1	3.55	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	4.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.95	1	A
Aroclor 1260	ND		ug/kg	36.1	3.77	1	A
Aroclor 1262	ND		ug/kg	36.1	2.97	1	A
Aroclor 1268	ND		ug/kg	36.1	2.56	1	A
PCBs, Total	ND		ug/kg	36.1	2.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-06
 Client ID: SB-1B
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 13:00
 Date Received: 09/06/17
 Field Prep: Not Specified

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/08/17 09:57
 Analyst: WR
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	4.23	1	A
Aroclor 1221	ND		ug/kg	37.3	5.68	1	A
Aroclor 1232	ND		ug/kg	37.3	3.67	1	A
Aroclor 1242	ND		ug/kg	37.3	4.57	1	A
Aroclor 1248	ND		ug/kg	37.3	4.19	1	A
Aroclor 1254	ND		ug/kg	37.3	3.04	1	A
Aroclor 1260	ND		ug/kg	37.3	3.90	1	A
Aroclor 1262	ND		ug/kg	37.3	3.07	1	A
Aroclor 1268	ND		ug/kg	37.3	2.64	1	A
PCBs, Total	ND		ug/kg	37.3	2.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/08/17 02:13
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:02
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/07/17
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039325-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.00	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.42	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039325-2 WG1039325-3									
Aroclor 1016	98		107		40-140	9		50	A
Aroclor 1260	113		128		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		97		30-150	A
Decachlorobiphenyl	99		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		96		30-150	B
Decachlorobiphenyl	93		105		30-150	B

PESTICIDES

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-01
 Client ID: SB-6 (0-2")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 20:20
 Analyst: DM
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.749	0.335	1	A
Alpha-BHC	ND		ug/kg	0.749	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.633	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.749	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	ND		ug/kg	1.12	0.562	1	A
4,4'-DDE	0.445	J	ug/kg	1.80	0.416	1	A
4,4'-DDD	ND		ug/kg	1.80	0.641	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	B
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.749	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	ND		ug/kg	2.25	0.626	1	A
trans-Chlordane	ND		ug/kg	2.25	0.593	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	124		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	120		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-02
 Client ID: SB-6 (2-12")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:15
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 20:35
 Analyst: DM
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.985	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.766	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	0.702	J	ug/kg	1.09	0.547	1	A
4,4'-DDE	0.948	J	ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	3.72		ug/kg	3.28	1.41	1	B
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	0.942	JPI	ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.2	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	135		30-150	B
Decachlorobiphenyl	113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	132		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-03
 Client ID: SB-6 (12-24")
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:30
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 20:50
 Analyst: DM
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.83	0.358	1	A
Lindane	ND		ug/kg	0.761	0.340	1	A
Alpha-BHC	ND		ug/kg	0.761	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.693	1	A
Heptachlor	ND		ug/kg	0.913	0.409	1	A
Aldrin	ND		ug/kg	1.83	0.643	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.03	1	A
Endrin	0.591	J	ug/kg	0.761	0.312	1	B
Endrin aldehyde	ND		ug/kg	2.28	0.799	1	A
Endrin ketone	ND		ug/kg	1.83	0.470	1	A
Dieldrin	1.33	P	ug/kg	1.14	0.571	1	A
4,4'-DDE	1.14	J	ug/kg	1.83	0.422	1	A
4,4'-DDD	0.830	J	ug/kg	1.83	0.652	1	B
4,4'-DDT	3.75	P	ug/kg	3.42	1.47	1	B
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.610	1	A
Endosulfan sulfate	ND		ug/kg	0.761	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.59	1	A
cis-Chlordane	0.993	J	ug/kg	2.28	0.636	1	A
trans-Chlordane	1.22	JPI	ug/kg	2.28	0.603	1	A
Chlordane	ND		ug/kg	14.8	6.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-04
 Client ID: SB-6
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 09:40
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 21:06
 Analyst: DM
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.800	0.358	1	A
Alpha-BHC	ND		ug/kg	0.800	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.960	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.676	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.800	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.840	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	ND		ug/kg	1.92	0.444	1	A
4,4'-DDD	ND		ug/kg	1.92	0.685	1	B
4,4'-DDT	ND		ug/kg	3.60	1.54	1	B
Endosulfan I	ND		ug/kg	1.92	0.454	1	A
Endosulfan II	ND		ug/kg	1.92	0.642	1	A
Endosulfan sulfate	ND		ug/kg	0.800	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.669	1	A
trans-Chlordane	ND	PI	ug/kg	2.40	0.634	1	A
Chlordane	ND		ug/kg	15.6	6.36	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-05
 Client ID: SB-5
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 11:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 21:21
 Analyst: DM
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.712	0.318	1	A
Alpha-BHC	ND		ug/kg	0.712	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.648	1	A
Heptachlor	ND		ug/kg	0.854	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.961	1	A
Endrin	ND		ug/kg	0.712	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.747	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND		ug/kg	1.07	0.534	1	A
4,4'-DDE	ND		ug/kg	1.71	0.395	1	B
4,4'-DDD	ND		ug/kg	1.71	0.609	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.571	1	A
Endosulfan sulfate	ND		ug/kg	0.712	0.339	1	A
Methoxychlor	ND		ug/kg	3.20	0.996	1	A
Toxaphene	ND		ug/kg	32.0	8.97	1	A
cis-Chlordane	ND		ug/kg	2.14	0.595	1	A
trans-Chlordane	ND		ug/kg	2.14	0.564	1	A
Chlordane	ND		ug/kg	13.9	5.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	101		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: FREDERICK PROPERTY**Lab Number:** L1731245**Project Number:** BD-17-092**Report Date:** 09/13/17**SAMPLE RESULTS**

Lab ID: L1731245-06
 Client ID: SB-1B
 Sample Location: MANCHESTER, NEW YORK

Date Collected: 09/05/17 13:00
 Date Received: 09/06/17
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/11/17 21:36
 Analyst: DM
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.994	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.77	0.408	1	B
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.417	1	A
Endosulfan II	ND		ug/kg	1.77	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.4	5.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/10/17 21:13
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039327-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.655	0.293	A
Alpha-BHC	ND		ug/kg	0.655	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.786	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.95	0.884	A
Endrin	ND		ug/kg	0.655	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	2.95	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.655	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.917	A
Toxaphene	ND		ug/kg	29.5	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.519	A
Chlordane	ND		ug/kg	12.8	5.21	A

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/10/17 21:13
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 09/07/17 11:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/07/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1039327-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	126		30-150	B
Decachlorobiphenyl	128		30-150	B
2,4,5,6-Tetrachloro-m-xylene	142		30-150	A
Decachlorobiphenyl	142		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039327-2 WG1039327-3									
Delta-BHC	101		119		30-150	16		30	A
Lindane	96		115		30-150	18		30	A
Alpha-BHC	112		134		30-150	18		30	A
Beta-BHC	103		112		30-150	8		30	A
Heptachlor	95		113		30-150	17		30	A
Aldrin	105		127		30-150	19		30	A
Heptachlor epoxide	94		113		30-150	18		30	A
Endrin	97		117		30-150	19		30	A
Endrin aldehyde	78		91		30-150	15		30	A
Endrin ketone	89		106		30-150	17		30	A
Dieldrin	113		136		30-150	18		30	A
4,4'-DDE	109		132		30-150	19		30	A
4,4'-DDD	98		119		30-150	19		30	A
4,4'-DDT	98		118		30-150	19		30	A
Endosulfan I	101		121		30-150	18		30	A
Endosulfan II	98		116		30-150	17		30	A
Endosulfan sulfate	84		100		30-150	17		30	A
Methoxychlor	90		108		30-150	18		30	A
cis-Chlordane	88		112		30-150	24		30	A
trans-Chlordane	87		111		30-150	24		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1039327-2 WG1039327-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		122		30-150	B
Decachlorobiphenyl	114		130		30-150	B
2,4,5,6-Tetrachloro-m-xylene	122		143		30-150	A
Decachlorobiphenyl	120		152	Q	30-150	A

METALS

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-01

Date Collected: 09/05/17 09:00

Client ID: SB-6 (0-2")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3980		mg/kg	8.72	2.35	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.36	0.331	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Arsenic, Total	3.22		mg/kg	0.872	0.181	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Barium, Total	27.3		mg/kg	0.872	0.152	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Beryllium, Total	0.209	J	mg/kg	0.436	0.029	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Cadmium, Total	0.279	J	mg/kg	0.872	0.085	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Calcium, Total	27200		mg/kg	8.72	3.05	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Chromium, Total	5.53		mg/kg	0.872	0.084	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Cobalt, Total	3.02		mg/kg	1.74	0.145	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Copper, Total	12.5		mg/kg	0.872	0.225	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Iron, Total	8390		mg/kg	4.36	0.787	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Lead, Total	6.56		mg/kg	4.36	0.234	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Magnesium, Total	11000		mg/kg	8.72	1.34	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Manganese, Total	347		mg/kg	0.872	0.139	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:15	EPA 7471B	1,7471B	EA
Nickel, Total	6.82		mg/kg	2.18	0.211	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Potassium, Total	417		mg/kg	218	12.6	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.225	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Sodium, Total	50.1	J	mg/kg	174	2.75	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Thallium, Total	0.305	J	mg/kg	1.74	0.275	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Vanadium, Total	8.98		mg/kg	0.872	0.177	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB
Zinc, Total	32.3		mg/kg	4.36	0.255	2	09/07/17 19:00	09/11/17 15:59	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-02

Date Collected: 09/05/17 09:15

Client ID: SB-6 (2-12")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3970		mg/kg	8.66	2.34	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.33	0.329	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Arsenic, Total	3.54		mg/kg	0.866	0.180	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Barium, Total	41.5		mg/kg	0.866	0.151	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Beryllium, Total	0.199	J	mg/kg	0.433	0.029	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Cadmium, Total	0.338	J	mg/kg	0.866	0.085	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Calcium, Total	49400		mg/kg	8.66	3.03	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Chromium, Total	5.68		mg/kg	0.866	0.083	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Cobalt, Total	2.80		mg/kg	1.73	0.144	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Copper, Total	12.7		mg/kg	0.866	0.223	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Iron, Total	8160		mg/kg	4.33	0.782	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Lead, Total	14.9		mg/kg	4.33	0.232	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Magnesium, Total	12900		mg/kg	8.66	1.33	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Manganese, Total	350		mg/kg	0.866	0.138	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:17	EPA 7471B	1,7471B	EA
Nickel, Total	6.30		mg/kg	2.16	0.209	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Potassium, Total	421		mg/kg	216	12.5	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.73	0.223	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.866	0.245	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Sodium, Total	74.0	J	mg/kg	173	2.73	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.73	0.273	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Vanadium, Total	9.09		mg/kg	0.866	0.176	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB
Zinc, Total	43.1		mg/kg	4.33	0.254	2	09/07/17 19:00	09/11/17 16:04	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-03

Date Collected: 09/05/17 09:30

Client ID: SB-6 (12-24")

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9390		mg/kg	9.18	2.48	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.59	0.349	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Arsenic, Total	6.01		mg/kg	0.918	0.191	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Barium, Total	69.0		mg/kg	0.918	0.160	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.459		mg/kg	0.459	0.030	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Cadmium, Total	0.569	J	mg/kg	0.918	0.090	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Calcium, Total	18400		mg/kg	9.18	3.21	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Chromium, Total	12.1		mg/kg	0.918	0.088	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Cobalt, Total	6.46		mg/kg	1.84	0.152	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Copper, Total	19.6		mg/kg	0.918	0.237	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Iron, Total	15600		mg/kg	4.59	0.829	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Lead, Total	30.5		mg/kg	4.59	0.246	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Magnesium, Total	9280		mg/kg	9.18	1.41	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Manganese, Total	605		mg/kg	0.918	0.146	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:19	EPA 7471B	1,7471B	EA
Nickel, Total	14.0		mg/kg	2.30	0.222	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Potassium, Total	807		mg/kg	230	13.2	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.84	0.237	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.918	0.260	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Sodium, Total	126	J	mg/kg	184	2.89	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Thallium, Total	0.432	J	mg/kg	1.84	0.289	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Vanadium, Total	17.8		mg/kg	0.918	0.186	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB
Zinc, Total	54.5		mg/kg	4.59	0.269	2	09/07/17 19:00	09/11/17 16:08	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-04

Date Collected: 09/05/17 09:40

Client ID: SB-6

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8640		mg/kg	9.48	2.56	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.74	0.360	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Arsenic, Total	5.58		mg/kg	0.948	0.197	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Barium, Total	64.0		mg/kg	0.948	0.165	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Beryllium, Total	0.408	J	mg/kg	0.474	0.031	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Cadmium, Total	0.512	J	mg/kg	0.948	0.093	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Calcium, Total	25800		mg/kg	9.48	3.32	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Chromium, Total	11.6		mg/kg	0.948	0.091	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Cobalt, Total	5.62		mg/kg	1.90	0.157	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Copper, Total	14.8		mg/kg	0.948	0.244	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Iron, Total	14000		mg/kg	4.74	0.856	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Lead, Total	48.2		mg/kg	4.74	0.254	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Magnesium, Total	12100		mg/kg	9.48	1.46	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Manganese, Total	378		mg/kg	0.948	0.151	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Mercury, Total	0.02	J	mg/kg	0.08	0.02	1	09/08/17 08:30	09/08/17 18:20	EPA 7471B	1,7471B	EA
Nickel, Total	12.8		mg/kg	2.37	0.229	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Potassium, Total	771		mg/kg	237	13.6	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.90	0.244	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.948	0.268	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Sodium, Total	148	J	mg/kg	190	2.98	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.90	0.298	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Vanadium, Total	16.5		mg/kg	0.948	0.192	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB
Zinc, Total	48.7		mg/kg	4.74	0.278	2	09/07/17 19:00	09/11/17 16:13	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-05
Client ID: SB-5
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil
Percent Solids: 90%

Date Collected: 09/05/17 11:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7530		mg/kg	8.40	2.27	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.20	0.319	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Arsenic, Total	4.81		mg/kg	0.840	0.175	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Barium, Total	60.0		mg/kg	0.840	0.146	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.386	J	mg/kg	0.420	0.028	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Cadmium, Total	0.462	J	mg/kg	0.840	0.082	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Calcium, Total	42700		mg/kg	8.40	2.94	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Chromium, Total	11.6		mg/kg	0.840	0.081	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Cobalt, Total	4.81		mg/kg	1.68	0.139	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Copper, Total	12.4		mg/kg	0.840	0.217	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Iron, Total	13400		mg/kg	4.20	0.758	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Lead, Total	5.84		mg/kg	4.20	0.225	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Magnesium, Total	20200		mg/kg	8.40	1.29	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Manganese, Total	303		mg/kg	0.840	0.133	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:22	EPA 7471B	1,7471B	EA
Nickel, Total	11.7		mg/kg	2.10	0.203	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Potassium, Total	833		mg/kg	210	12.1	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.68	0.217	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.840	0.238	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Sodium, Total	105	J	mg/kg	168	2.64	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.68	0.264	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Vanadium, Total	15.3		mg/kg	0.840	0.170	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB
Zinc, Total	52.1		mg/kg	4.20	0.246	2	09/07/17 19:00	09/11/17 16:17	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-06

Date Collected: 09/05/17 13:00

Client ID: SB-1B

Date Received: 09/06/17

Sample Location: MANCHESTER, NEW YORK

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3820		mg/kg	9.01	2.43	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.51	0.342	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Arsenic, Total	3.12		mg/kg	0.901	0.187	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Barium, Total	24.3		mg/kg	0.901	0.157	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Beryllium, Total	0.180	J	mg/kg	0.451	0.030	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Cadmium, Total	0.288	J	mg/kg	0.901	0.088	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Calcium, Total	45100		mg/kg	9.01	3.16	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Chromium, Total	6.08		mg/kg	0.901	0.087	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Cobalt, Total	3.07		mg/kg	1.80	0.150	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Copper, Total	9.73		mg/kg	0.901	0.232	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Iron, Total	8050		mg/kg	4.51	0.814	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Lead, Total	6.55		mg/kg	4.51	0.242	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Magnesium, Total	13800		mg/kg	9.01	1.39	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Manganese, Total	305		mg/kg	0.901	0.143	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	09/08/17 08:30	09/08/17 18:28	EPA 7471B	1,7471B	EA
Nickel, Total	6.72		mg/kg	2.25	0.218	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Potassium, Total	400		mg/kg	225	13.0	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.80	0.232	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.901	0.255	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Sodium, Total	88.9	J	mg/kg	180	2.84	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.284	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Vanadium, Total	9.75		mg/kg	0.901	0.183	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB
Zinc, Total	32.8		mg/kg	4.51	0.264	2	09/07/17 19:00	09/11/17 16:40	EPA 3050B	1,6010C	AB



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1039482-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Arsenic, Total	0.084	J	mg/kg	0.400	0.083	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/07/17 19:00	09/11/17 14:46	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1039575-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	09/08/17 08:30	09/08/17 17:51	1,7471B	EA



Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039482-2 SRM Lot Number: D093-540								
Aluminum, Total	70		-		55-146	-		
Antimony, Total	145		-		2-204	-		
Arsenic, Total	97		-		70-130	-		
Barium, Total	87		-		83-117	-		
Beryllium, Total	91		-		83-117	-		
Cadmium, Total	88		-		83-117	-		
Calcium, Total	93		-		83-117	-		
Chromium, Total	88		-		80-120	-		
Cobalt, Total	86		-		84-116	-		
Copper, Total	92		-		82-118	-		
Iron, Total	86		-		47-153	-		
Lead, Total	86		-		82-117	-		
Magnesium, Total	77		-		77-124	-		
Manganese, Total	83		-		81-119	-		
Nickel, Total	87		-		83-117	-		
Potassium, Total	79		-		71-129	-		
Selenium, Total	92		-		78-122	-		
Silver, Total	95		-		76-124	-		
Sodium, Total	89		-		72-128	-		
Thallium, Total	86		-		79-121	-		
Vanadium, Total	90		-		78-122	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039482-2 SRM Lot Number: D093-540					
Zinc, Total	88	-	83-117	-	
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1039575-2 SRM Lot Number: D093-540					
Mercury, Total	75	-	72-128	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: FREDERICK PROPERTY

Project Number: BD-17-092

Lab Number: L1731245

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039482-3 WG1039482-4 QC Sample: L1731243-04 Client ID: MS Sample												
Aluminum, Total	5560	175	6980	812	Q	6920	776	Q	75-125	1		20
Antimony, Total	ND	43.7	26.1	60	Q	27.9	64	Q	75-125	7		20
Arsenic, Total	5.01	10.5	14.8	93		14.7	92		75-125	1		20
Barium, Total	54.4	175	204	86		207	87		75-125	1		20
Beryllium, Total	0.296J	4.37	4.31	98		4.40	100		75-125	2		20
Cadmium, Total	0.521J	4.46	4.48	100		4.63	104		75-125	3		20
Calcium, Total	6990	874	7080	10	Q	7580	67	Q	75-125	7		20
Chromium, Total	8.40	17.5	25.8	99		24.5	92		75-125	5		20
Cobalt, Total	3.79	43.7	39.3	81		40.8	84		75-125	4		20
Copper, Total	12.9	21.9	31.9	87		32.6	90		75-125	2		20
Iron, Total	10100	87.4	12400	2630	Q	11100	1140	Q	75-125	11		20
Lead, Total	52.3	44.6	79.8	62	Q	118	147	Q	75-125	39	Q	20
Magnesium, Total	4030	874	4670	73	Q	4290	30	Q	75-125	8		20
Manganese, Total	357.	43.7	420	144	Q	415	132	Q	75-125	1		20
Nickel, Total	7.58	43.7	44.3	84		45.9	87		75-125	4		20
Potassium, Total	357.	874	1210	98		1240	101		75-125	2		20
Selenium, Total	ND	10.5	8.91	85		9.24	88		75-125	4		20
Silver, Total	ND	26.2	25.1	96		26.0	99		75-125	4		20
Sodium, Total	28.3J	874	836	96		859	98		75-125	3		20
Thallium, Total	ND	10.5	8.51	81		8.69	83		75-125	2		20
Vanadium, Total	12.1	43.7	53.8	95		54.8	97		75-125	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: FREDERICK PROPERTY

Lab Number: L1731245

Project Number: BD-17-092

Report Date: 09/13/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039482-3 WG1039482-4 QC Sample: L1731243-04 Client ID: MS Sample									
Zinc, Total	67.0	43.7	108	94	110	98	75-125	2	20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1039575-3 WG1039575-4 QC Sample: L1731243-04 Client ID: MS Sample									
Mercury, Total	0.023	0.145	0.14	96	0.12	82	80-120	15	20

INORGANICS & MISCELLANEOUS

Project Name: FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731245**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-01**Client ID:** SB-6 (0-2")**Sample Location:** MANCHESTER, NEW YORK**Matrix:** Soil**Date Collected:** 09/05/17 09:00**Date Received:** 09/06/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-02
Client ID: SB-6 (2-12")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/05/17 09:15
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-03
Client ID: SB-6 (12-24")
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/05/17 09:30
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-04
Client ID: SB-6
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/05/17 09:40
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.1		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Project Name: FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731245**Report Date:** 09/13/17**SAMPLE RESULTS****Lab ID:** L1731245-05**Client ID:** SB-5**Sample Location:** MANCHESTER, NEW YORK**Matrix:** Soil**Date Collected:** 09/05/17 11:00**Date Received:** 09/06/17**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

SAMPLE RESULTS

Lab ID: L1731245-06
Client ID: SB-1B
Sample Location: MANCHESTER, NEW YORK
Matrix: Soil

Date Collected: 09/05/17 13:00
Date Received: 09/06/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	09/07/17 13:53	121,2540G	RI



Lab Duplicate Analysis
Batch Quality Control**Project Name:** FREDERICK PROPERTY**Project Number:** BD-17-092**Lab Number:** L1731245**Report Date:** 09/13/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1039380-1 QC Sample: L1731337-01 Client ID: DUP Sample						
Solids, Total	90.9	91.4	%	1		20

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No: 09131716:12
Lab Number: L1731245
Report Date: 09/13/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731245-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-01C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731245-01X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-01Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-01Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-02A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-02C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731245-02X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-02Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-02Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-03A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-03C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)

Project Name: FREDERICK PROPERTY
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731245-03X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-03Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-03Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-04A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-04C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731245-04X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-04Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-04Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-05A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-05C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731245-05X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-05Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-05Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)
L1731245-06A	Vial Large Septa unpreserved (4oz)	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1731245-06C	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L1731245-06X	Vial MeOH preserved split	A	NA		4.4	Y	Absent		NYTCL-8260-R2(14)
L1731245-06Y	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Serial_No:09131716:12
Lab Number: L1731245
Report Date: 09/13/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1731245-06Z	Vial Water preserved split	A	NA		4.4	Y	Absent	08-SEP-17 08:04	NYTCL-8260-R2(14)

Project Name: FREDERICK PROPERTY
Project Number: BD-17-092

Lab Number: L1731245
Report Date: 09/13/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: FREDERICK PROPERTY
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Lab Number: L1731245
Report Date: 09/13/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



DAY ENGINEERING, P.C.

ENVIRONMENTAL ENGINEERING CONSULTANTS
AN AFFILIATE OF DAY ENVIRONMENTAL, INC.

July 26, 2018

Ms. Danielle Miles, EIT
Division of Environmental Remediation, Region 8
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414-9519

RE: NYSDEC Site #B00131 (Frederick Property)
147 State Street, Manchester New York
Data Package for Supplementary Studies: June 2018

Dear Ms. Miles:

This letter, prepared by DAY Engineering, P.C. (DAY) on behalf of the Village of Manchester, summarizes the findings of supplementary studies completed at the above-referenced property (Site) between June 20, 2018 and July 2, 2018. These studies were completed in accordance with the provisions described in an Investigation Work Plan (IWP) dated April 2018, which was approved by the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) as outlined in a letter from the NYSDEC dated May 21, 2018. A project locus map is presented as Figure 1.

Test Borings and Monitoring Well Installation

On June 20, 2018, ten test borings designated TB-201 through TB-206, TB-206A, TB-207, TB-208, and MW-A were advanced at the Site in the approximate locations identified on Figure 2. The subsurface conditions observed at each location are documented on the test boring logs provided as Attachment A. Soil samples were retained for testing from select test borings as outlined on Table 1, titled *Analytical Laboratory Testing Program*. The soil samples were transported by a DAY representative to ALS Environmental Laboratory (ALS) in Rochester, NY for testing.

A 2-inch diameter monitoring well, designated MW-A, was installed adjacent to test boring MW-A on June 20, 2018. [Note: The drilling equipment encountered an object at the base of test boring MW-A which caused the auger stem to deflect away from the boring hole. Therefore, the augers were retracted and monitoring well MW-A was subsequently installed approximately 2.5 feet to the northwest of test boring MW-A.] A monitoring well construction diagram for MW-A is provided as Attachment B.

During the advancement of the test borings and well installation described above, CAMP monitoring was completed as described in the IWP. CAMP response/action levels were not exceeded at the downwind Site boundary or western Site boundary (i.e., in proximity to potentially exposed individuals or structures) during the intrusive work completed on June 20, 2018.

Development and Sampling of Monitoring Well MW-A

On June 26, 2018, monitoring well MW-A was evaluated for the presence of free petroleum product and developed for subsequent sampling. The data collected on June 26, 2018 is summarized on the well development log provided in Attachment C. [Note: Free petroleum product was not encountered in MW-A on June 26, 2018 (i.e., prior to, or during, the well development process.)]

On July 2, 2018, monitoring well MW-A was re-evaluated for the presence of free petroleum product and subsequently purged (to dry conditions) and allowed to recharge prior to sampling. Free petroleum product was not encountered in MW-A on July 2, 2018. Therefore subsequent to recovery, a groundwater sample was collected from monitoring well MW-A and subsequently transported by a DAY representative to ALS for testing. Data collected during the sampling of MW-A is summarized on the Well Sampling Log included in Attachment C.

Location and Elevation Survey

The locations of the existing monitoring wells (i.e., MW-1 through MW-6, RW-1 through RW-3 and P102), the test borings installed on June 20 2018, and MW-A were measured using a Trimble model Geo XH™ GPS receiver and an elevation survey of each inner well casing of the existing monitoring wells and MW-A was also completed using a Topcon™ laser level.

Groundwater Flow

Static water levels were measured within accessible groundwater monitoring wells at the Site on July 2, 2018. A groundwater contour map, based on static water levels measured on July 2, 2018, is presented as Figure 3.

Analytical Laboratory Results

Each soil and groundwater sample submitted to ALS was tested for USEPA Target Compound List (TCL) and NYSDEC Commissioner's Policy (CP)-51 List volatile organic compounds (VOCs) plus tentatively identified Compounds (TICs) and for USEPA TCL and NYSDEC CP-51 List semi-volatile organic compounds (SVOCs) plus TICs. The results of the testing completed by ALS are summarized on the following tables:

Table 2 – Summary of detected TCL/CP-51 List VOCs plus TICs: Soil Samples;

Table 3 – Summary of detected TCL/CP-51 List SVOCs plus TICs: Soil Samples;

Table 4 – Summary of detected TCL/CP-51 List VOCs plus TICs: Groundwater Samples; and

Table 5 – Summary of detected TCL/CP-51 List SVOCs plus TICs: Groundwater Samples.

The data summary packages provided by ALS are presented as Attachment D.

DAY will contact the NYSDEC to discuss options to address the results of these supplemental studies and the next steps required pursuant to obtaining a Certificate of Completion (COC) for this Site. In the interim, please contact this office if you have questions.

Very truly yours,
Day Engineering, P.C.

Ms. Danielle Miles
NYSDEC Region 8
July 26, 2018
Page 3



Raymond L. Kampff
Principal

Enclosure

Figures:

Figure 1 – Project Locus Map

Figure 2 – Site Plan

Figure 3 - Potentiometric Overburden and Bedrock Groundwater Contour Maps measured on July 2, 2018

Tables:

Table 1 – Analytical Laboratory Testing Program

Table 2 – Summary of detected TCL/CP-51 List VOCs plus TICs: Soil Samples

Table 3 – Summary of detected TCL/CP-51 List SVOCs plus TICs: Soil Samples

Table 4 – Summary of detected TCL/CP-51 List VOCs plus TICs: Groundwater Samples

Table 5 – Summary of detected TCL/CP-51 List SVOCs plus TICs: Groundwater Samples

Attachments:

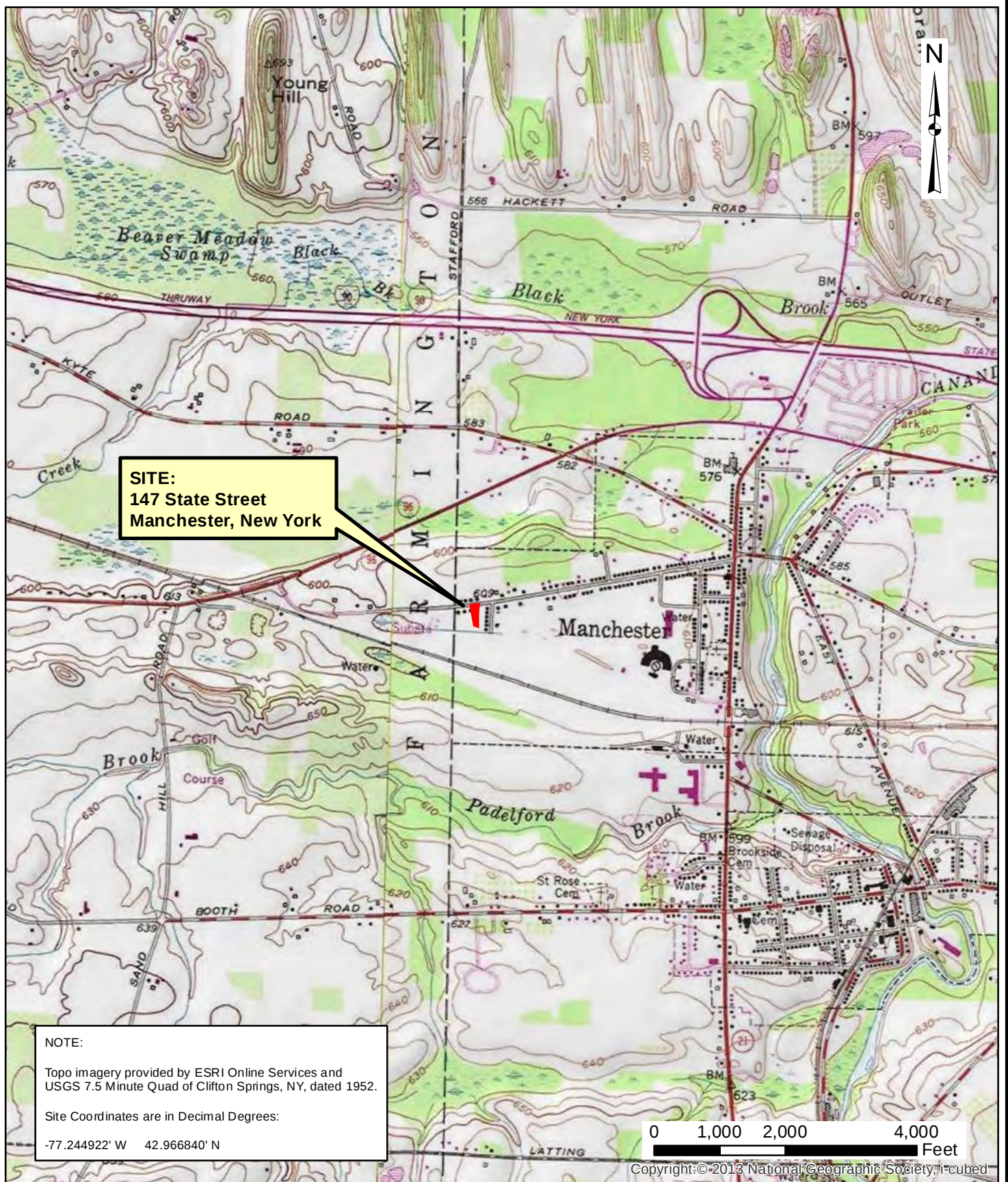
Attachment A- Test Boring Logs

Attachment B – Monitoring Well Construction Diagram for MW-A

Attachment C – Well Development and Well Sampling Log for MW-A

Attachment D – Analytical Laboratory Reports and Chain-of Custody Documentation

cc: Steven Berninger (NYSDOH)
Nancy W. Johnsen (Village of Manchester)
Rita Gurewitch (Village of Manchester)



Date
04-12-2018

Drawn By
CAH

Scale
AS NOTED

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
147 STATE STREET
MANCHESTER, NEW YORK
NYSDEC ERP SITE #B00131

Drawing Title
Project Locus Map

Project No.
5474S-18
FIGURE 1

Legend

-  Monitoring well installed June 20, 2018
-  Test boring advanced June 20, 2018
-  Soil boring advanced in August-September 2017
-  Existing bedrock monitoring well
-  Existing overburden monitoring well
-  Abandoned piezometer
-  Property Boundary



NOTES:

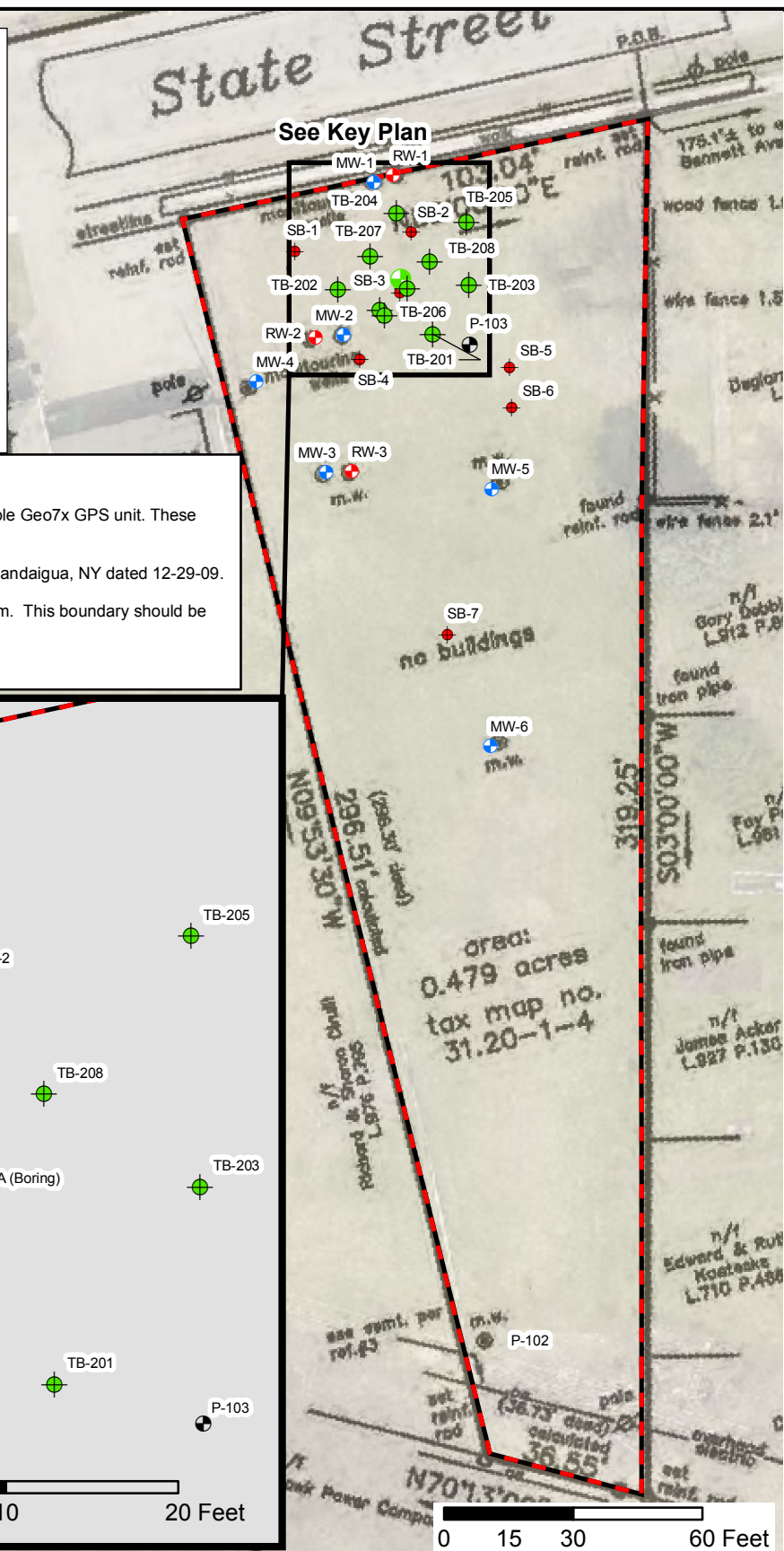
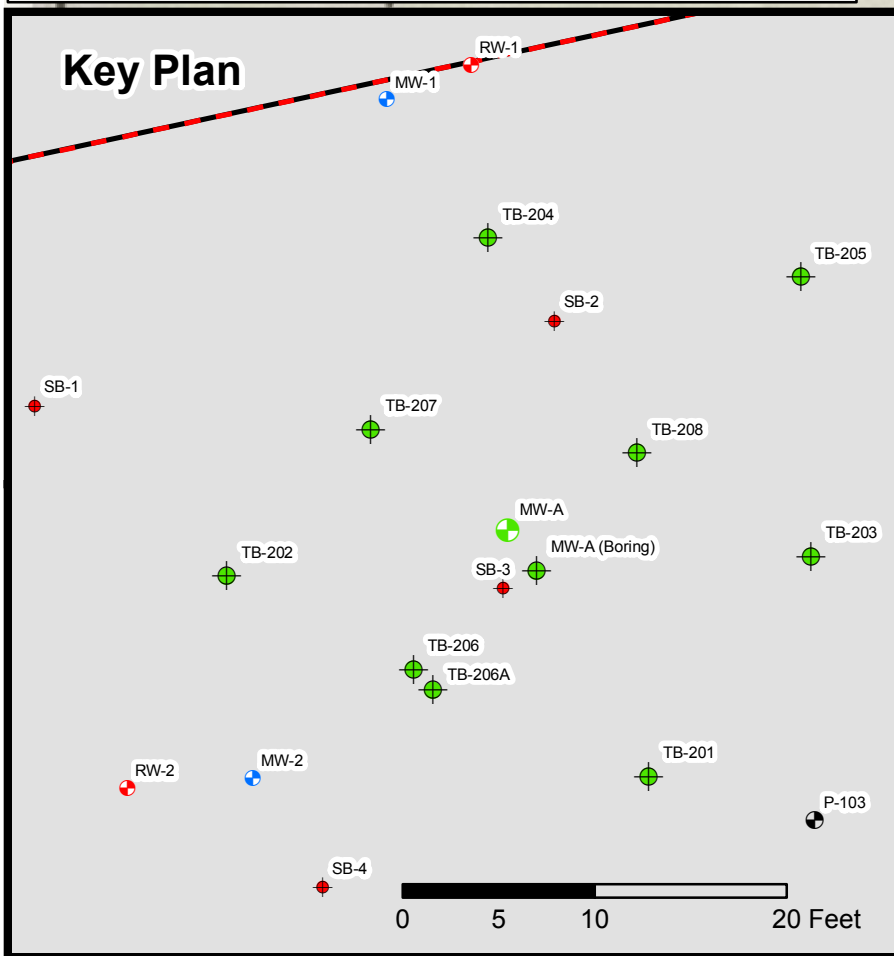
Overburden and Bedrock monitoring wells were located using a Trimble Geo7x GPS unit. These locations are to be considered approximate.

Site survey completed by Freeland-Perrinello Land Surveyors of Canandaigua, NY dated 12-29-09.

Property boundary provided by the Ontario County OnCor GIS system. This boundary should be considered approximate.

Aerial imagery provided by Pictometry, dated 2014.

Key Plan

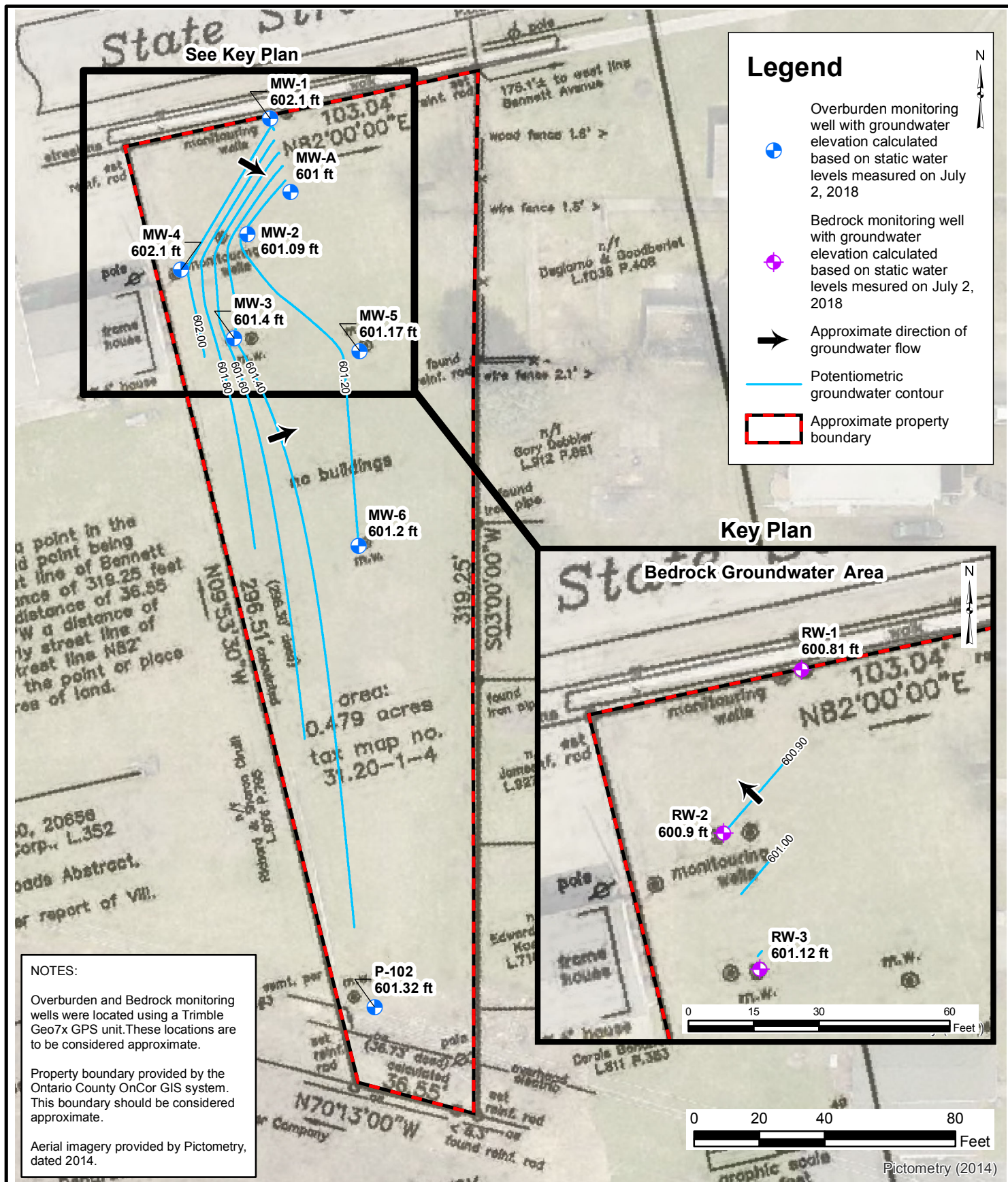


Date	07-16-2018
Drawn By	CPS/CAH
Scale	AS NOTED

day
DAY ENVIRONMENTAL, INC.
 Environmental Consultants
 Rochester, New York 14606
 New York, New York 10170

Project Title	147 STATE STREET MANCHESTER, NEW YORK NYSDEC ERP SITE NO. B00131
Drawing Title	SUPPLEMENTARY STUDIES Site Plan

Project No.	5474S-18
	FIGURE 2



Date	07-18-2018
Drawn By	CPS
Scale	AS NOTED

day
DAY ENVIRONMENTAL, INC.
 Environmental Consultants
 Rochester, New York 14606
 New York, New York 10170

Project Title	147 STATE STREET MANCHESTER, NEW YORK NYSDEC ERP SITE NO. B00131
Drawing Title	Potentiometric Overburden and Bedrock Groundwater Contour Maps measured on July 2, 2018
Project No.	5474S-18
	FIGURE 3

TABLE 1
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC ERP SITE # B00131
 SUPPLEMENTARY STUDIES: JUNE 2018
 ANALYTICAL LABORATORY TESTING PROGRAM

Sample Designation	Matrix	Date	Test Parameters
TB-202 (12')	Soil	6/20/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs
TB-204 (8'-9')	Soil	6/20/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs
TB-206A (10'-11')	Soil	6/20/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs
TB-207 (10'-11')	Soil	6/20/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs
TB-208 (9')	Soil	6/20/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs
MW-A	Groundwater	7/2/2018	TCL/CP-51 VOCs plus TICs, TCL/CP-51 SVOCs plus TICs

NOTES

TCL/CP-51 VOCs = USEPA Target Compound List and NYSDEC Commissioner Policy List Volatile Organic Compounds by USEPA Method 8260B

TCL/CP-51 List SVOCs = USEPA Target Compound List and NYSDEC Commissioner Policy List Semi-Volatile Organic Compounds by USEPA Method 8270C

TICs = Tentatively Identified Compounds

TABLE 2
FREDERICK PROPERTY
147 STATE STREET, MANCHESTER NEW YORK
NYSDEC ERP SITE # B00131
SUPPLEMENTARY STUDIES: JUNE 2018
SUMMARY OF DETECTED NYSDEC TCL/CP-51 LIST VOCs PLUS TICs: SOIL SAMPLES

Compound	CP-51 SCL ⁽¹⁾	Protection of Groundwater SCO ⁽²⁾	Restricted Commercial Use SCO ⁽³⁾	Sample Designation and Date				
				TB-202 (12') 06/20/18	TB-204 (8'-9') 06/20/18	TB-206A (10'-11') 06/20/18	TB-207 (10'-11') 06/20/18	TB-208 (9') 06/20/18
1,2,4-Trimethylbenzene	3.6	3.6	190	0.044	0.0095	1.90 D	45 D	0.0019 J
1,3,5-Trimethylbenzene	8.4	8.4	190	0.004	0.0057	0.093	14 D	0.003
4-Isopropyltoluene	10	10	NS	0.006	0.0036 J	0.0046	0.620 D	0.0009 J
Benzene	0.06	0.06	44	0.0013 J	ND (0.00022)	0.0038	ND (0.11)	0.00064 J
Cyclohexane	NS	NS	NS	0.091	0.360 D	0.110	30 D	0.036
Ethylbenzene	1	1	390	0.0011 J	0.0041	0.004	15 D	ND (0.00012)
Isopropylbenzene	2.3	2.3	NS	0.016	0.030	0.076	2 D	0.0017 J
Methylcyclohexane	NS	NS	NS	0.071	0.190	0.084	17 D	0.041
Toluene	0.7	0.7	500	0.0012 J	0.00081 J	0.0039	26 D	0.0024 J
m,p-Xylenes	0.26*	1.6*	500*	0.0065 J	0.017	0.750 D	26 D	0.0023 J
n-Butylbenzene	12	12	500	0.021	0.0044	0.0085	1.5 D	0.0051
n-Propylbenzene	3.9	3.9	500	0.056	0.096	0.430	6.9 D	0.007
o-Xylene	0.26*	1.6*	500*	0.00081 J	0.004	0.0095	ND (0.18)	0.00052 J
sec-Butylbenzene	11	11	500	0.014	0.018	0.01	0.85 D	0.0045
tert-Butylbenzene	5.9	5.9	500	0.0006 J	0.00011 J	0.010	ND (0.22)	0.00067 J
Total TICs	NS	NS	NS	ND	3.162	2.553	296.4	1.355

NOTES

Results, SCOs and SCLs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Level (SCL) as referenced in NYSDEC Commissioner Policy 51 dated 10/21/2010.

(2) = Soil Cleanup Objective (SCO) for Protection of Groundwater as referenced in 6 NYCRR Part 375 dated 12/14/06.

(3) = Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

VOCs = Volatile Organic Compounds

TICs = Tentatively Identified Compounds

ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory

NS = No Standard

J = Estimated Concentration

D = Concentration following sample dilution

*SCL and SCO for mixed xylenes, including the sum of m,p-xylenes and o-xylene

Highlighted value exceeds the SCL and/or Protection of Groundwater SCO

Highlighted value exceeds the Restricted Commercial Use SCO

TABLE 3
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC ERP SITE # B00131
 SUPPLEMENTARY STUDIES: JUNE 2018
 SUMMARY OF DETECTED NYSDEC TCL/CP-51 LIST SVOCs PLUS TICs: SOIL SAMPLES

Compound	CP-51 SCL ⁽¹⁾	Protection of Groundwater SCO ⁽²⁾	Restricted Commercial Use SCO ⁽³⁾	Sample Designation and Date				
				TB-202 (12') 06/20/18	TB-204 (8'-9') 06/20/18	TB-206A (10'-11') 06/20/18	TB-207 (10'-11') 06/20/18	TB-208 (9') 06/20/18
2-Methylnaphthalene	NS	36.4	NS	0.120 J	ND (0.083)	ND (0.083)	0.56	ND (0.083)
Naphthalene	12	12	500	ND (0.080)	ND (0.076)	ND (0.076)	0.56	ND (0.076)
Total TICs	NS	NS	NS	ND	ND	ND	ND	ND

NOTES

Results, SCOs and SCLs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Level (SCL) as referenced in NYSDEC Commissioner Policy 51 dated 10/21/2010.

(2) = Soil Cleanup Objective (SCO) for Protection of Groundwater as referenced in 6 NYCRR Part 375 dated 12/14/06.

(3) = Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

SVOCs = Semi Volatile Organic Compounds

TICs = Tentatively Identified Compounds

ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory

NS = No Standard

J = Estimated Concentration

Highlighted value exceeds the SCL and/or Protection of Groundwater SCO

Highlighted value exceeds the Restricted Commercial Use SCO

TABLE 4
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC ERP SITE # B00131
 SUPPLEMENTARY STUDIES: JUNE 2018
 SUMMARY OF DETECTED NYSDEC TCL/CP-51 LIST VOCs PLUS TICs: GROUNDWATER SAMPLE

Compound	NYSDEC Standard or Guidance Value ⁽¹⁾	Sample Designation and Date
		MW-A 07/02/17
1,2,4-Trimethylbenzene	5	2,400
1,3,5-Trimethylbenzene	5	670
2-Butanone (MEK)	50	30 J
4-Isopropyltoluene	5	14 J
Acetone	50	72 J
Benzene	1	35 J
Cyclohexane	NS	280
Ethylbenzene	5	1,600
Isopropylbenzene	5	99 J
Methylcyclohexane	NS	220 J
Toluene	5	490
m,p-Xylenes	5	6,300
n-Butylbenzene	5	29J
n-Propylbenzene	5	270
o-Xylene	5	1,200
sec-Butylbenzene	5	16 J
Total VOC TICs	NS	11,744

NOTES

Results and groundwater standards/guidance values are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

VOCs = Volatile Organic Compounds

TICs = Tentatively Identified Compounds

NS = No Standard/Guidance Value

J = Estimated Concentration

Highlighted value exceeds the groundwater standard or guidance value

TABLE 5
 FREDERICK PROPERTY
 147 STATE STREET, MANCHESTER NEW YORK
 NYSDEC ERP SITE # B00131
 SUPPLEMENTARY STUDIES: JUNE 2018
 SUMMARY OF DETECTED NYSDEC TCL/CP-51 LIST SVOCs PLUS TICS: GROUNDWATER SAMPLE

Compound	NYSDEC Guidance Value ⁽¹⁾	Sample Designation and Date
		MW-A 07/02/17
2-Methylnaphthalene	NS	230
Naphthalene	10	390
Total SVOC TICS	NS	2,414

NOTES

Results and groundwater standards/guidance values are in micrograms per liter (µg/l) or parts per billion (ppb)

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended in January 1999, April 2000, and June 2004.

VOCs = Volatile Organic Compounds

TICs = Tentatively Identified Compounds

NS = No Standard/Guidance Value

ND = Not Detected at a concentration greater than the detection limit reported by the analytical laboratory

Highlighted value exceeds the groundwater guidance value

Attachment A

Test Boring Logs



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 201

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 9.5' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	-	S-1	0-4	70	-		0.0	Tan, fine Sand, little Silt, little fine to medium Gravel, damp (FILL)	
3							0.0	...Brown, medium Sand	
4						0.0		Brown, Clayey SAND and GRAVEL, trace Cobbles, damp	
5							0.0		
6	-	S-2	4-8	20	-		0.0		
7						0.0	0.0		
8							0.0		
9	-	S-3	8-9.5	65	-	0.0	0.0	Gray/Tan, Clayey SAND and weathered ROCK, wet	
10								Fractured ROCK, wet	
11								Equipment Refusal @ 9.5'	
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 201

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 202

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 12.2' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	-	S-1	0-4	65	-		0.0	Tan, fine to medium Sand and fine to coarse Gravel, damp (FILL)	
3						0.0	0.0	Tan, fine Sand, damp (FILL)	
4							0.0	Red/Brown, fine to coarse Sand and fine to coarse Gravel, trace Cobbles, moist (FILL)	
5									
6	-	S-2	4-8	15	-	0.0	0.0		
7									
8								...wet	
9							0.0	Brown/Gray, Silty SAND and GRAVEL, wet	
10	-	S-3	8-12	33	-				
11						1.9	0.0		
12	-	S-4	12-12.2	100	-	3.1	0.5		
13								Equipment Refusal @ 12.2'	
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 202

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 203

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 9.1' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	Grass and Topsoil	
								Gray/Black, fine Sand and crushed Rock, damp (FILL)	
2	-	S-1	0-4	100	-	4.0	6.8	Dark Brown, SILT, little Sand, little fine Gravel, damp	
3							4.6	Red/Brown, CLAY, trace fine Gravel, moist	
4							2.1		
5							0.0		
6	-	S-2	4-8	90	-		0.0	Tan, Clayey medium SAND and fine to coarse GRAVEL, moist	
7						0.0	0.0	...fine Sand	
8							0.0	...wet	
9	-	S-3	8-9.1		-	0.0	0.0	Tan, Fractured BEDROCK, little medium to fine Sand, little Clay, wet	
10								Equipment Refusal @ 9.1'	
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 203

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 204

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 9.1' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
								Tan, fine Sand, little Silt, little fine to coarse Gravel, damp (FILL)	
2	-	S-1	0-4	85	-		0.0	Tan/Brown, fine to medium Sand, little fine to coarse Gravel, damp (FILL)	
							0.0		
3						0.0			
							0.0	Red/Brown, medium to coarse Sand, moist (FILL)	
4							0.3	...Sand and Gravel	
5						0.0			
							0.0		
6	-	S-2	4-8	60	-			...little Clay, wet	
							0.0		
7									
8									
								Gray, Silty SAND and GRAVEL, wet	
9	-	S-3	8-9.1	50	-	0.0	1.1	Fractured BEDROCK, little Clay,wet	
								Equipment Refusal @ 9.1'	
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 204

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 205

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 7.9' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	-	S-1	0-4	73	-	0.0	0.0	Tan, fine Sand, little Silt, little Gravel, damp (FILL) Tan, fine Sand, little fine to coarse Gravel (FILL)	
3							0.0	...medium to coarse Sand, moist	
4									
5							0.2		
6	-	S-2	4-7.7	58	-	0.0	0.0	Brown, Clayey SAND and GRAVEL, moist ...wet	
7							0.0	Tan, CLAY, trace fine Sand	
8	-	S-3	7.7-7.9	100	-	0.0	0.0	Fractured BEDROCK, wet	
9								Equipment Refusal @ 7.9'	
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 205

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 206

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 8.0' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1						0.0	3.6	Grass and Topsoil	
2	-	S-1	0-4	80	-		1.1	Tan, fine to medium Sand, little Silt, little fine to medium Gravel, damp (FILL)	
3							0.6		
4							0.3	Brown, medium Sand, little fine to coarse Gravel, moist (FILL)	
5							0.0		
6	-	S-2	4-8	40	-		0.0	Brown, clayey fine SAND, some fine to coarse Gravel, moist	
7						0.0	0.0	...some cobbles	
8								Equipment Refusal @ 8.0'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 206

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 206A

Ground Elevation: _____ Datum: _____ Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 11.5' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	-	S-1	0-4	70	-	0.0	0.0	Tan, fine Sand, some fine to medium Gravel, damp (FILL)	
3							0.0		
4							0.0	Brown, medium Sand, some fine to medium Gravel, moist (FILL)	
5							0.0		
6	-	S-2	4-8	35	-	0.0	0.0	Brown, Clayey SAND and GRAVEL, moist	
7							0.0		
8							0.0		
9							0.0		
10	-	S-3	8-11.5	38	-	4.7	3.3	Gray, Clayey SAND and weathered BEDROCK, wet	Faint petroleum-type odor ~ 9' - 11'
11							1.6		
12								Refusal @ 11.5'	
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 206A

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 207

Ground Elevation: NA Datum: NA
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 11.5' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	-	S-1	0-4	80	-		0.0	Tan, fine Sand, little Silt, littl fine to coarse Gravel, damp (FILL)	
3						0.0	0.0	Brown, medium Sand, little fine to coarse Gravel, damp (FILL)	
4							0.0	...little Silt	
5							0.0		
6	-	S-2	4-8	55	-	1.1	9.8	Brown/Gray, Clayey SAND and GRAVEL, Moist	
7						188.6	164.4		
8							154.8	Gray, CLAY and weathered BEDROCK, little Sand, wet	Petroleum-type odor ~ 7.0' - 11.5'
9							1,026		
10	-	S-3	8-11.5	70	-	702.3	31.1		Black staining ~ 10.0'
11						65.1	21.1		
12							17.2	Fractured BEDROCK, Wet	
13								Equipment Refusal @ 11.5'	
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 207

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 208

Ground Elevation: NA Datum: NA Page 1 of 1
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: 9.7' Borehole Diameter: 2.25
Completion Method: ☐ Well Installed ☒ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): NA

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	Grass and Topsoil	
2	-	S-1	0-4	70	-	0.0	0.3	Tan, fine Sand, little Silt, little fine to medium Gravel, damp (FILL)	
3							0.3	Brown, medium Sand, little fine to coarse Gravel, moist (FILL)	
4							0.2	...little Silt	
5							0.0		
6	-	S-2	4-8	60	-	0.0	0.1	Gray Clayey SAND and Gravel, little weathered Bedrock, moist	
7							0.6		
8							0.4		
9	-	S-3	8-9.7	50	-	7.1	0.5	...wet	
10							0.8		
11							6.4	Fractured BEDROCK, wet	
12								Refusal @ 9.7'	
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 208

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	5474S-18	Test Boring MW-A			
Project Address:	147 State Street				
	Manchester, New York	Page 1 of 1			
DAY Representative:	CAH/HM2	Ground Elevation:	NA	Datum:	NA
Drilling Contractor:	Nothnagle Drilling	Date Started:	6/20/2018	Date Ended:	6/20/2018
Sampling Method:	Direct Push/Macrocore	Borehole Depth:	11.0'	Borehole Diameter:	3.25
		Completion Method:	☐ Well Installed ☐ Backfilled with Grout ☒ Backfilled with Cuttings		
		Water Level (Date):	NA		

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	-	S-1	0-4	80	-	0.0	0.0	Grass and Topsoil	Petroleum-type odor ~ 9' - 11'
							Tan, fine Sand, little Silt, little fiine ro medium Gravel, damp (FILL)		
2							0.0		
3			0.0	Brown, medium Sand, little fine to medium Gravel, moist (FILL)					
4			0.0						
5				...little Cobbles					
6	-	S-2	4-8	20	-	0.0	0.0		
7							0.0		
8									
9	-	S-3	8-11	55	-	1347 1878	85.2	Gray/Brown, Clayey SAND and GRAVEL, wet	
10							1563		
11							2281 747	Weathered BEDROCK, little Clay, little Sand, wet	
12								Equipment Refusal @ 11.0'	
13									
14									
15									
16									

Notes:	1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
	2) Stratification lines represent approximate boundaries. Transitions may be gradual.
	3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
	4) NA = Not Available or Not Applicable
	5) Headspace PID readings may be influenced by moisture
Test Boring MW-A	

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Attachment B

Monitoring Well Construction Diagram for MW-A



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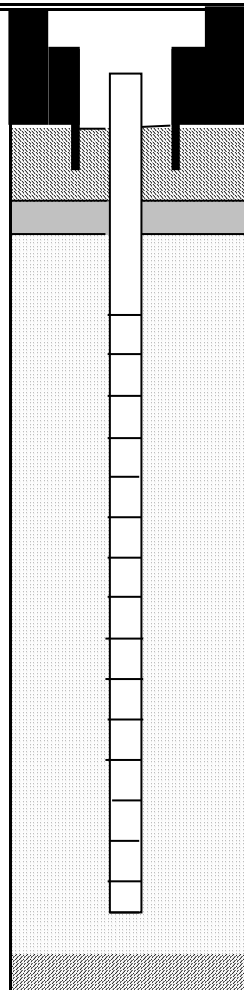
ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5474S-18		MONITORING WELL MW- A		
Project Address:	147 State Street				
DAY Representative:	CAH/HM2	Ground Elevation:	608.75'	Datum:	Mean Seal Level
Drilling Contractor:	Nothnagle Drilling	Date Started:	6/20/2018	Date Ended:	6/20/2018
		Groundwater Elevation (Date): 601.00' (7/2/18)			

Refer to Test Boring Log TB-MW-A for Soil Description



← Flush Mounted Roadbox
0.15 Depth to Top of Riser Pipe (ft)
0.5 Depth to Bottom of Concrete Surface Patch (ft)
Backfill Type Soil

1.75 Depth to Top of Bentonite Seal (ft)
2.75 Depth to Bottom of Bentonite Seal (ft)

3.75 Depth to Top of Well Screen (ft)

8 Diameter of Borehole (in)

Backfill Type Sand 001

2.0 Inside Diameter of Well (in)

Type of Pipe PVC
Screen slot size #10 Slot

10.25 Depth to Bottom of Well Screen (ft)
10.9 Depth to Bottom of Borehole/Top of Bedrock (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW- A

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

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Attachment C

Well Development and Well Sampling Log for MW-A

WELL DEVELOPMENT DATA
MW- A

SITE LOCATION: 147 State Street, Manchester, NY (NYSDEC ERP Site No. B00131)

JOB#: 5474S-18

DATE/ TIME	6-26-18/ 11:05	6-26-18/ 11:20	6-26-18/ 11:25	6-26-18/ 11:30	6-26-18/ 11:35	6-26-18/ 11:45	Well Recovery	6-26-18/ 11:50
EVACUATION METHOD	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump	Peristaltic Pump		N/A
PID/FID (PPM)	488.5	NC	NC	NC	NC	198.5		NC
DEPTH OF WELL (FT)	10.35	NC	NC	NC	NC	NC		NC
STATIC WATER LEVEL (SWL) FT	7.58	NC	NC	7.82	7.98	NC		7.72
VOLUME EVACUATED (GAL)	0	0.4	0.4	0.4	0.4.	0.4		N/A
TOTAL VOLUME EVACUATED (GAL)	0	0.4	0.8	1.2	1.6	2.0		N/A
TEMPERATURE (°C)	16.7	16.0	16.5	16.1	15.2	15.1		14.3
pH	7.28	7.16	7.11	7.04	7.05	7.06		7.02
ORP (mV)	177.5	181.5	174.8	160.5	136.1	128.8		118.4
CONDUCTIVITY (Ms/cm)	0.747	0.359	0.742	0.737	0.728	0.725		0.728
TURBIDITY (NTU)	732	263	163	73	26.7	39.9		NC
VISUAL OBSERVATION	Clear with petroleum- type odor	Clear/cloudy	Clear	Clear	Clear	Clear		Turbid with petroleum-type odor

LEGEND: NC = Not Collected
ND = Not Detected
N/A = Not Applicable

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

**DAY ENVIRONMENTAL, INC.
MONITORING WELL SAMPLING LOG**

WELL MW-A

SECTION 1 - SITE INFORMATION

SITE LOCATION: 147 State Street, Manchester, NY **JOB #:** 5474S-18
NYSDEC ERP Site No. B00131 **DATE :** July 2, 2018
SAMPLE COLLECTOR(S): C. Hampton
WEATHER CONDITIONS: Sunny, ~ 90°F **PID IN WELL (PPM):** 360.4 **LNAPL** ND **DNAPL** N/M

SECTION 2 - PURGE INFORMATION

DEPTH OF WELL [FT]: 10.39 (MEASURED FROM TOP OF CASING - T.O.C.)
STATIC WATER LEVEL (SWL) [FT]: 7.60 (MEASURED FROM T.O.C.)
T.O.C. TO GROUND SURFACE [FT]: -0.6
THICKNESS OF WATER COLUMN [FT]: 2.79 (DEPTH OF WELL - SWL)
CALCULATED VOL. OF H₂O PER WELL CASING [GAL]: 0.46 **CASING DIA.:** 2"
CALCULATIONS:

<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>	<u>CALCULATIONS</u>
¾" (0.0625)	0.023	VOL. OF H ₂ O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT
1" (0.0833)	0.041	
1¼" (0.1041)	0.063	
2" (0.1667)	0.1632	
3" (0.250)	0.380	
4" (0.3333)	0.6528	
4½" (0.375)	0.826	
6" (0.5000)	1.4688	
8" (0.666)	2.611	

CALCULATED PURGE VOLUME [GAL]: 1.36 (3 TIMES CASING VOLUME)
ACTUAL VOLUME PURGED [GAL]: 3.5 (Dry)
PURGE METHOD: Bailer **PURGE START:** 10:10 **END:** 10:25

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS

SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-A	7-2-18 / 11:35	Bailer	TCL/CP-51 VOC + TICS TCL/CP-51 SVOC + TICS

SECTION 4 - WATER QUALITY DATA

SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (uS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
7.69	18.05	7.02	330	N/M	N/M	3	Cloudy/muddy w/ petroleum-type odor

N/M = Not Measured

ND = Not Detected

Attachment D

Analytical Laboratory Reports and Chain-of Custody Documentation



July 03, 2018

Service Request No:R1805749

Mr. Charles Hampton
Day Environmental, Incorporated
1563 Lyell Avenue
Rochester, NY 14606

Laboratory Results for: Manche

Dear Mr.Hampton,

Enclosed are the results of the sample(s) submitted to our laboratory June 20, 2018
For your reference, these analyses have been assigned our service request number **R1805749**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

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Client: Day Environmental, Incorporated
Project: Manche
Sample Matrix: Soil, Water

Service Request: R1805749
Date Received: 06/20/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

Six soil, water samples were received for analysis at ALS Environmental on 06/20/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semivolatiles by GC/MS:

Method 8270D, 06/22/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 06/22/2018: The Relative Percent Difference control limits were exceeded for one or more analytes in Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD). The associated recoveries of target compounds were in control, indicating the analysis was in control. No further corrective action was appropriate.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 06/21/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/26/2018: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____

Date 07/03/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: TB-204 8-9			Lab ID: R1805749-001			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	89.8				Percent	ALS SOP
1,2,4-Trimethylbenzene	9.5		0.40	3.7	ug/Kg	8260C
1,3,5-Trimethylbenzene	5.7		0.59	3.7	ug/Kg	8260C
4-Isopropyltoluene	3.6	J	0.64	3.7	ug/Kg	8260C
Cyclohexane	490	E	1.1	3.7	ug/Kg	8260C
Ethylbenzene	4.1		0.17	3.7	ug/Kg	8260C
Isopropylbenzene (Cumene)	30		0.50	3.7	ug/Kg	8260C
Methylcyclohexane	340	E	0.89	3.7	ug/Kg	8260C
Toluene	0.81	J	0.74	3.7	ug/Kg	8260C
m,p-Xylenes	17		0.81	7.3	ug/Kg	8260C
n-Butylbenzene	44		0.73	3.7	ug/Kg	8260C
n-Propylbenzene	96		0.58	3.7	ug/Kg	8260C
o-Xylene	4.4		0.36	3.7	ug/Kg	8260C
sec-Butylbenzene	18		0.53	3.7	ug/Kg	8260C
tert-Butylbenzene	1.1	J	0.43	3.7	ug/Kg	8260C
1,2,4-Trimethylbenzene	79	DJ	41	370	ug/Kg	8260C
Cyclohexane	360	DJ	110	370	ug/Kg	8260C
Methylcyclohexane	190	DJ	90	370	ug/Kg	8260C
n-Propylbenzene	63	DJ	59	370	ug/Kg	8260C

CLIENT ID: TB-202 12			Lab ID: R1805749-002			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	84.7				Percent	ALS SOP
1,2,4-Trimethylbenzene	44		0.37	3.4	ug/Kg	8260C
1,3,5-Trimethylbenzene	4.0		0.54	3.4	ug/Kg	8260C
4-Isopropyltoluene	6.0		0.59	3.4	ug/Kg	8260C
Benzene	1.3	J	0.20	3.4	ug/Kg	8260C
Cyclohexane	91		0.93	3.4	ug/Kg	8260C
Ethylbenzene	1.1	J	0.16	3.4	ug/Kg	8260C
Isopropylbenzene (Cumene)	16		0.46	3.4	ug/Kg	8260C
Methylcyclohexane	71		0.81	3.4	ug/Kg	8260C
Toluene	1.2	J	0.68	3.4	ug/Kg	8260C
m,p-Xylenes	6.5	J	0.74	6.7	ug/Kg	8260C
n-Butylbenzene	21		0.66	3.4	ug/Kg	8260C
n-Propylbenzene	56		0.53	3.4	ug/Kg	8260C
o-Xylene	0.81	J	0.33	3.4	ug/Kg	8260C
sec-Butylbenzene	14		0.49	3.4	ug/Kg	8260C
tert-Butylbenzene	0.60	J	0.40	3.4	ug/Kg	8260C
2-Methylnaphthalene	120	J	87	390	ug/Kg	8270D



SAMPLE DETECTION SUMMARY

CLIENT ID: TB-207 10-11			Lab ID: R1805749-003			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	90.9				Percent	ALS SOP
1,2,4-Trimethylbenzene	45000	D	210	1900	ug/Kg	8260C
1,3,5-Trimethylbenzene	14000	D	300	1900	ug/Kg	8260C
4-Isopropyltoluene	620	DJ	330	1900	ug/Kg	8260C
Cyclohexane	30000	D	520	1900	ug/Kg	8260C
Ethylbenzene	15000	D	87	1900	ug/Kg	8260C
Isopropylbenzene (Cumene)	2000	D	260	1900	ug/Kg	8260C
Methylcyclohexane	17000	D	450	1900	ug/Kg	8260C
m,p-Xylenes	26000	D	410	3700	ug/Kg	8260C
n-Butylbenzene	1500	DJ	370	1900	ug/Kg	8260C
n-Propylbenzene	6900	D	300	1900	ug/Kg	8260C
sec-Butylbenzene	850	DJ	270	1900	ug/Kg	8260C
2-Methylnaphthalene	560		81	360	ug/Kg	8270D
Naphthalene	560		74	360	ug/Kg	8270D

CLIENT ID: TB-206A 10-11			Lab ID: R1805749-004			
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Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	89.3				Percent	ALS SOP
1,2,4-Trimethylbenzene	910	E	0.42	3.8	ug/Kg	8260C
1,3,5-Trimethylbenzene	93		0.61	3.8	ug/Kg	8260C
4-Isopropyltoluene	4.6		0.67	3.8	ug/Kg	8260C
Benzene	3.8		0.23	3.8	ug/Kg	8260C
Cyclohexane	110		1.1	3.8	ug/Kg	8260C
Ethylbenzene	4.0		0.18	3.8	ug/Kg	8260C
Isopropylbenzene (Cumene)	76		0.52	3.8	ug/Kg	8260C
Methylcyclohexane	84		0.92	3.8	ug/Kg	8260C
Toluene	3.9		0.77	3.8	ug/Kg	8260C
m,p-Xylenes	720	E	0.84	7.6	ug/Kg	8260C
n-Butylbenzene	8.5		0.75	3.8	ug/Kg	8260C
n-Propylbenzene	260	E	0.60	3.8	ug/Kg	8260C
o-Xylene	9.5		0.37	3.8	ug/Kg	8260C
sec-Butylbenzene	10		0.55	3.8	ug/Kg	8260C
1,2,4-Trimethylbenzene	1900	D	48	440	ug/Kg	8260C
1,3,5-Trimethylbenzene	160	DJ	70	440	ug/Kg	8260C
Cyclohexane	230	DJ	130	440	ug/Kg	8260C
Isopropylbenzene (Cumene)	120	DJ	60	440	ug/Kg	8260C
Methylcyclohexane	200	DJ	110	440	ug/Kg	8260C
m,p-Xylenes	750	DJ	97	880	ug/Kg	8260C
n-Propylbenzene	430	DJ	70	440	ug/Kg	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: TB-208 9

Lab ID: R1805749-005

Analyte	Results	Flag	MDL	MRL	Units	Method
Total Solids	87.8				Percent	ALS SOP
1,2,4-Trimethylbenzene	1.9	J	0.28	2.6	ug/Kg	8260C
1,3,5-Trimethylbenzene	3.0		0.41	2.6	ug/Kg	8260C
4-Isopropyltoluene	0.90	J	0.45	2.6	ug/Kg	8260C
Benzene	0.64	J	0.15	2.6	ug/Kg	8260C
Carbon Disulfide	0.76	J	0.64	2.6	ug/Kg	8260C
Cyclohexane	36		0.71	2.6	ug/Kg	8260C
Isopropylbenzene (Cumene)	1.7	J	0.35	2.6	ug/Kg	8260C
Methylcyclohexane	41		0.62	2.6	ug/Kg	8260C
Toluene	2.4	J	0.52	2.6	ug/Kg	8260C
m,p-Xylenes	2.3	J	0.56	5.1	ug/Kg	8260C
n-Butylbenzene	5.1		0.51	2.6	ug/Kg	8260C
n-Propylbenzene	7.0		0.40	2.6	ug/Kg	8260C
o-Xylene	0.52	J	0.25	2.6	ug/Kg	8260C
sec-Butylbenzene	4.5		0.37	2.6	ug/Kg	8260C
tert-Butylbenzene	0.67	J	0.30	2.6	ug/Kg	8260C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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Client: Day Environmental, Incorporated
Project: Manche/5474S-18

Service Request:R1805749

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1805749-001	TB-204 8-9	6/20/2018	0945
R1805749-002	TB-202 12	6/20/2018	1030
R1805749-003	TB-207 10-11	6/20/2018	1515
R1805749-004	TB-206A 10-11	6/20/2018	1445
R1805749-005	TB-208 9	6/20/2018	1540
R1805749-006	Trip Blank	6/20/2018	

[illegible]



Cooler Receipt and Preservation Check Form

R1805749

Day Environmental, Incorporated
Manche

5

Project/Client Day Environmental Folder Number _____Cooler received on 6/20/18 by dhCOURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒ N ☐
2	Custody papers properly completed (ink, signed)?	☒ Y ☐ N
3	Did all bottles arrive in good condition (unbroken)?	☒ Y ☐ N
4	Circle: Wet Ice Dry Ice Gel packs present?	☒ Y ☐ N

5a	Perchlorate samples have required headspace?	Y ☐ N ☒
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles ?	Y ☒ N ☐ NA
6	Where did the bottles originate?	<u>ACS/ROC</u> <u>CLIENT</u>
7	Soil VOA received as:	Bulk Encore <u>5035set</u> NA

8. Temperature Readings Date: 6/20/18 Time: 1716 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.3°</u>						
Correction Factor (°C)	<u>20.6°</u>						
Corrected Temp (°C)	<u>5.3°</u>						
Temp from: Type of bottle							
Within 0-6°C?	☒ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
If <0°C, were samples frozen?	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed (described below) _____ Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: R202 by dh on 6/20/18 at 1716
5035 samples placed in storage location: R-FOA by V on ✓ at ✓Cooler Breakdown/Preservation Check**: Date: 6/21/18 Time: 1125 by: Q

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
10. Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
11. Were correct containers used for the tests indicated? ☒ YES ☐ NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? ☒ YES ☐ NO
13. Air Samples: Cassettes / Tubes Intact with MS? ☒ YES ☐ NO Tedlar® Bags Inflated ☒ YES ☐ NO

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>4/1 7096</u>					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 5035, 8-039-004
Explain all Discrepancies/ Other Comments: _____

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

No jar used for 8270.
had to use solid jar for 8270

Labels secondary reviewed by: Q

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
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Client: Day Environmental, Incorporated
Project: Manche/5474S-18

Service Request: R1805749

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18

Service Request: R1805749

Sample Name: TB-204 8-9
Lab Code: R1805749-001
Sample Matrix: Soil

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C
8270D
ALS SOP

Extracted/Digested By

MPEDRO

Analyzed By
FNAEGLER
JMISIUREWICZ
KWONG

Sample Name: TB-202 12
Lab Code: R1805749-002
Sample Matrix: Soil

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C
8270D
ALS SOP

Extracted/Digested By

MPEDRO

Analyzed By
FNAEGLER
JMISIUREWICZ
KWONG

Sample Name: TB-207 10-11
Lab Code: R1805749-003
Sample Matrix: Soil

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C
8270D
ALS SOP

Extracted/Digested By

MPEDRO

Analyzed By
DLIPANI
JMISIUREWICZ
KWONG

Sample Name: TB-206A 10-11
Lab Code: R1805749-004
Sample Matrix: Soil

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C
8270D
ALS SOP

Extracted/Digested By

MPEDRO

Analyzed By
FNAEGLER
JMISIUREWICZ
KWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18

Service Request: R1805749

Sample Name: TB-208 9
Lab Code: R1805749-005
Sample Matrix: Soil

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C
8270D
ALS SOP

Extracted/Digested By

MPEDRO

Analyzed By
FNAEGLER
JMISIUREWICZ
KWONG

Sample Name: Trip Blank
Lab Code: R1805749-006
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
DLIPANI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.54 U	3.7	0.54	.66	06/21/18 17:52	
1,1,2,2-Tetrachloroethane	0.60 U	3.7	0.60	.66	06/21/18 17:52	
1,1,2-Trichloroethane	0.54 U	3.7	0.54	.66	06/21/18 17:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.92 U	3.7	0.92	.66	06/21/18 17:52	
1,1-Dichloroethane (1,1-DCA)	0.92 U	3.7	0.92	.66	06/21/18 17:52	
1,1-Dichloroethene (1,1-DCE)	0.95 U	3.7	0.95	.66	06/21/18 17:52	
1,2,3-Trichlorobenzene	0.46 U	3.7	0.46	.66	06/21/18 17:52	
1,2,4-Trichlorobenzene	0.44 U	3.7	0.44	.66	06/21/18 17:52	
1,2,4-Trimethylbenzene	9.5	3.7	0.40	.66	06/21/18 17:52	
1,2-Dibromo-3-chloropropane (DBCP)	1.4 U	3.7	1.4	.66	06/21/18 17:52	
1,2-Dibromoethane	0.89 U	3.7	0.89	.66	06/21/18 17:52	
1,2-Dichlorobenzene	0.45 U	3.7	0.45	.66	06/21/18 17:52	
1,2-Dichloroethane	0.45 U	3.7	0.45	.66	06/21/18 17:52	
1,2-Dichloropropane	0.72 U	3.7	0.72	.66	06/21/18 17:52	
1,3,5-Trimethylbenzene	5.7	3.7	0.59	.66	06/21/18 17:52	
1,3-Dichlorobenzene	0.47 U	3.7	0.47	.66	06/21/18 17:52	
1,4-Dichlorobenzene	0.42 U	3.7	0.42	.66	06/21/18 17:52	
1,4-Dioxane	15 U	73	15	.66	06/21/18 17:52	
2-Butanone (MEK)	1.7 U	3.7	1.7	.66	06/21/18 17:52	
2-Hexanone	0.89 U	3.7	0.89	.66	06/21/18 17:52	
4-Isopropyltoluene	3.6 J	3.7	0.64	.66	06/21/18 17:52	
4-Methyl-2-pentanone	0.73 U	3.7	0.73	.66	06/21/18 17:52	
Acetone	2.1 U	3.7	2.1	.66	06/21/18 17:52	
Benzene	0.22 U	3.7	0.22	.66	06/21/18 17:52	
Bromochloromethane	1.0 U	3.7	1.0	.66	06/21/18 17:52	
Bromodichloromethane	0.45 U	3.7	0.45	.66	06/21/18 17:52	
Bromoform	0.69 U	3.7	0.69	.66	06/21/18 17:52	
Bromomethane	1.1 U	3.7	1.1	.66	06/21/18 17:52	
Carbon Disulfide	0.92 U	3.7	0.92	.66	06/21/18 17:52	
Carbon Tetrachloride	0.68 U	3.7	0.68	.66	06/21/18 17:52	
Chlorobenzene	0.22 U	3.7	0.22	.66	06/21/18 17:52	
Chloroethane	2.2 U	3.7	2.2	.66	06/21/18 17:52	
Chloroform	0.93 U	3.7	0.93	.66	06/21/18 17:52	
Chloromethane	0.30 U	3.7	0.30	.66	06/21/18 17:52	
Cyclohexane	490 E	3.7	1.1	.66	06/21/18 17:52	
Dibromochloromethane	0.54 U	3.7	0.54	.66	06/21/18 17:52	
Dichlorodifluoromethane (CFC 12)	1.4 U	3.7	1.4	.66	06/21/18 17:52	
Dichloromethane	0.42 U	3.7	0.42	.66	06/21/18 17:52	
Ethylbenzene	4.1	3.7	0.17	.66	06/21/18 17:52	
Isopropylbenzene (Cumene)	30	3.7	0.50	.66	06/21/18 17:52	
Methyl Acetate	1.3 U	3.7	1.3	.66	06/21/18 17:52	
Methyl tert-Butyl Ether	0.70 U	3.7	0.70	.66	06/21/18 17:52	
Methylcyclohexane	340 E	3.7	0.89	.66	06/21/18 17:52	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.23 U	3.7	0.23	.66	06/21/18 17:52	
Tetrachloroethene (PCE)	0.65 U	3.7	0.65	.66	06/21/18 17:52	
Toluene	0.81 J	3.7	0.74	.66	06/21/18 17:52	
Trichloroethene (TCE)	0.75 U	3.7	0.75	.66	06/21/18 17:52	
Trichlorofluoromethane (CFC 11)	0.49 U	3.7	0.49	.66	06/21/18 17:52	
Vinyl Chloride	1.4 U	3.7	1.4	.66	06/21/18 17:52	
cis-1,2-Dichloroethene	0.70 U	3.7	0.70	.66	06/21/18 17:52	
cis-1,3-Dichloropropene	0.67 U	3.7	0.67	.66	06/21/18 17:52	
m,p-Xylenes	17	7.3	0.81	.66	06/21/18 17:52	
n-Butylbenzene	44	3.7	0.73	.66	06/21/18 17:52	
n-Propylbenzene	96	3.7	0.58	.66	06/21/18 17:52	
o-Xylene	4.4	3.7	0.36	.66	06/21/18 17:52	
sec-Butylbenzene	18	3.7	0.53	.66	06/21/18 17:52	
tert-Butylbenzene	1.1 J	3.7	0.43	.66	06/21/18 17:52	
trans-1,2-Dichloroethene	0.64 U	3.7	0.64	.66	06/21/18 17:52	
trans-1,3-Dichloropropene	0.15 U	3.7	0.15	.66	06/21/18 17:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	121	31 - 154	06/21/18 17:52	
Dibromofluoromethane	90	63 - 138	06/21/18 17:52	
Toluene-d8	109	66 - 138	06/21/18 17:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.80	330	J
005911-04-6	Nonane, 3-methyl-	10.89	220	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.31	95	JN
	unknown	11.67	170	J
013151-35-4	Decane, 5-methyl-	11.80	140	JN
	unknown	11.83	150	J
	unknown	11.87	250	J
	unknown	11.91	120	J
013151-34-3	Decane, 3-methyl-	11.94	97	JN
000535-77-3	Benzene, 1-methyl-3-(1-methylethyl	12.38	250	JN
	unknown	12.47	120	J
	unknown	12.67	110	J
000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.70	200	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.07	150	JN
017301-23-4	Undecane, 2,6-dimethyl-	13.20	100	JN
	unknown	5.45	170	J
000142-82-5	Heptane	5.81	120	JN

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Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000565-75-3	Pentane, 2,3,4-trimethyl-	7.22	110	JN
000592-27-8	Heptane, 2-methyl-	7.55	120	JN
000589-81-1	Heptane, 3-methyl-	7.73	140	JN

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Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	55 U	370	55	67	06/26/18 12:41	
1,1,2,2-Tetrachloroethane	61 U	370	61	67	06/26/18 12:41	
1,1,2-Trichloroethane	55 U	370	55	67	06/26/18 12:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	93 U	370	93	67	06/26/18 12:41	
1,1-Dichloroethane (1,1-DCA)	94 U	370	94	67	06/26/18 12:41	
1,1-Dichloroethene (1,1-DCE)	96 U	370	96	67	06/26/18 12:41	
1,2,3-Trichlorobenzene	47 U	370	47	67	06/26/18 12:41	
1,2,4-Trichlorobenzene	45 U	370	45	67	06/26/18 12:41	
1,2,4-Trimethylbenzene	79 DJ	370	41	67	06/26/18 12:41	
1,2-Dibromo-3-chloropropane (DBCP)	140 U	370	140	67	06/26/18 12:41	
1,2-Dibromoethane	91 U	370	91	67	06/26/18 12:41	
1,2-Dichlorobenzene	46 U	370	46	67	06/26/18 12:41	
1,2-Dichloroethane	46 U	370	46	67	06/26/18 12:41	
1,2-Dichloropropane	73 U	370	73	67	06/26/18 12:41	
1,3,5-Trimethylbenzene	59 U	370	59	67	06/26/18 12:41	
1,3-Dichlorobenzene	48 U	370	48	67	06/26/18 12:41	
1,4-Dichlorobenzene	42 U	370	42	67	06/26/18 12:41	
1,4-Dioxane	1500 U	7500	1500	67	06/26/18 12:41	
2-Butanone (MEK)	180 U	370	180	67	06/26/18 12:41	
2-Hexanone	91 U	370	91	67	06/26/18 12:41	
4-Isopropyltoluene	65 U	370	65	67	06/26/18 12:41	
4-Methyl-2-pentanone	74 U	370	74	67	06/26/18 12:41	
Acetone	210 U	370	210	67	06/26/18 12:41	
Benzene	22 U	370	22	67	06/26/18 12:41	
Bromochloromethane	110 U	370	110	67	06/26/18 12:41	
Bromodichloromethane	46 U	370	46	67	06/26/18 12:41	
Bromoform	70 U	370	70	67	06/26/18 12:41	
Bromomethane	110 U	370	110	67	06/26/18 12:41	
Carbon Disulfide	93 U	370	93	67	06/26/18 12:41	
Carbon Tetrachloride	69 U	370	69	67	06/26/18 12:41	
Chlorobenzene	22 U	370	22	67	06/26/18 12:41	
Chloroethane	220 U	370	220	67	06/26/18 12:41	
Chloroform	95 U	370	95	67	06/26/18 12:41	
Chloromethane	30 U	370	30	67	06/26/18 12:41	
Cyclohexane	360 DJ	370	110	67	06/26/18 12:41	
Dibromochloromethane	55 U	370	55	67	06/26/18 12:41	
Dichlorodifluoromethane (CFC 12)	150 U	370	150	67	06/26/18 12:41	
Dichloromethane	43 U	370	43	67	06/26/18 12:41	
Ethylbenzene	18 U	370	18	67	06/26/18 12:41	
Isopropylbenzene (Cumene)	50 U	370	50	67	06/26/18 12:41	
Methyl Acetate	140 U	370	140	67	06/26/18 12:41	
Methyl tert-Butyl Ether	71 U	370	71	67	06/26/18 12:41	
Methylcyclohexane	190 DJ	370	90	67	06/26/18 12:41	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	23 U	370	23	67	06/26/18 12:41	
Tetrachloroethene (PCE)	66 U	370	66	67	06/26/18 12:41	
Toluene	75 U	370	75	67	06/26/18 12:41	
Trichloroethene (TCE)	76 U	370	76	67	06/26/18 12:41	
Trichlorofluoromethane (CFC 11)	50 U	370	50	67	06/26/18 12:41	
Vinyl Chloride	140 U	370	140	67	06/26/18 12:41	
cis-1,2-Dichloroethene	71 U	370	71	67	06/26/18 12:41	
cis-1,3-Dichloropropene	68 U	370	68	67	06/26/18 12:41	
m,p-Xylenes	82 U	750	82	67	06/26/18 12:41	
n-Butylbenzene	74 U	370	74	67	06/26/18 12:41	
n-Propylbenzene	63 DJ	370	59	67	06/26/18 12:41	
o-Xylene	36 U	370	36	67	06/26/18 12:41	
sec-Butylbenzene	54 U	370	54	67	06/26/18 12:41	
tert-Butylbenzene	44 U	370	44	67	06/26/18 12:41	
trans-1,2-Dichloroethene	65 U	370	65	67	06/26/18 12:41	
trans-1,3-Dichloropropene	15 U	370	15	67	06/26/18 12:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	31 - 154	06/26/18 12:41	
Dibromofluoromethane	91	63 - 138	06/26/18 12:41	
Toluene-d8	103	66 - 138	06/26/18 12:41	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.57	550	J
	unknown	11.98	390	J
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	12.77	580	JN
000589-34-4	Hexane, 3-methyl-	5.65	500	JN
	unknown	6.04	490	J
000589-81-1	Heptane, 3-methyl-	8.07	390	JN
	unknown	9.20	470	J
	unknown	9.63	820	J
	unknown	9.75	720	J

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 10:30
Date Received: 06/20/18 17:15

Sample Name: TB-202 12
Lab Code: R1805749-002

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.50 U	3.4	0.50	.57	06/21/18 18:15	
1,1,2,2-Tetrachloroethane	0.55 U	3.4	0.55	.57	06/21/18 18:15	
1,1,2-Trichloroethane	0.50 U	3.4	0.50	.57	06/21/18 18:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.84 U	3.4	0.84	.57	06/21/18 18:15	
1,1-Dichloroethane (1,1-DCA)	0.85 U	3.4	0.85	.57	06/21/18 18:15	
1,1-Dichloroethene (1,1-DCE)	0.87 U	3.4	0.87	.57	06/21/18 18:15	
1,2,3-Trichlorobenzene	0.42 U	3.4	0.42	.57	06/21/18 18:15	
1,2,4-Trichlorobenzene	0.40 U	3.4	0.40	.57	06/21/18 18:15	
1,2,4-Trimethylbenzene	44	3.4	0.37	.57	06/21/18 18:15	
1,2-Dibromo-3-chloropropane (DBCP)	1.3 U	3.4	1.3	.57	06/21/18 18:15	
1,2-Dibromoethane	0.82 U	3.4	0.82	.57	06/21/18 18:15	
1,2-Dichlorobenzene	0.42 U	3.4	0.42	.57	06/21/18 18:15	
1,2-Dichloroethane	0.42 U	3.4	0.42	.57	06/21/18 18:15	
1,2-Dichloropropane	0.66 U	3.4	0.66	.57	06/21/18 18:15	
1,3,5-Trimethylbenzene	4.0	3.4	0.54	.57	06/21/18 18:15	
1,3-Dichlorobenzene	0.43 U	3.4	0.43	.57	06/21/18 18:15	
1,4-Dichlorobenzene	0.38 U	3.4	0.38	.57	06/21/18 18:15	
1,4-Dioxane	13 U	67	13	.57	06/21/18 18:15	
2-Butanone (MEK)	1.6 U	3.4	1.6	.57	06/21/18 18:15	
2-Hexanone	0.82 U	3.4	0.82	.57	06/21/18 18:15	
4-Isopropyltoluene	6.0	3.4	0.59	.57	06/21/18 18:15	
4-Methyl-2-pentanone	0.66 U	3.4	0.66	.57	06/21/18 18:15	
Acetone	1.9 U	3.4	1.9	.57	06/21/18 18:15	
Benzene	1.3 J	3.4	0.20	.57	06/21/18 18:15	
Bromochloromethane	0.92 U	3.4	0.92	.57	06/21/18 18:15	
Bromodichloromethane	0.42 U	3.4	0.42	.57	06/21/18 18:15	
Bromoform	0.63 U	3.4	0.63	.57	06/21/18 18:15	
Bromomethane	0.93 U	3.4	0.93	.57	06/21/18 18:15	
Carbon Disulfide	0.84 U	3.4	0.84	.57	06/21/18 18:15	
Carbon Tetrachloride	0.62 U	3.4	0.62	.57	06/21/18 18:15	
Chlorobenzene	0.20 U	3.4	0.20	.57	06/21/18 18:15	
Chloroethane	2.0 U	3.4	2.0	.57	06/21/18 18:15	
Chloroform	0.85 U	3.4	0.85	.57	06/21/18 18:15	
Chloromethane	0.27 U	3.4	0.27	.57	06/21/18 18:15	
Cyclohexane	91	3.4	0.93	.57	06/21/18 18:15	
Dibromochloromethane	0.50 U	3.4	0.50	.57	06/21/18 18:15	
Dichlorodifluoromethane (CFC 12)	1.3 U	3.4	1.3	.57	06/21/18 18:15	
Dichloromethane	0.39 U	3.4	0.39	.57	06/21/18 18:15	
Ethylbenzene	1.1 J	3.4	0.16	.57	06/21/18 18:15	
Isopropylbenzene (Cumene)	16	3.4	0.46	.57	06/21/18 18:15	
Methyl Acetate	1.2 U	3.4	1.2	.57	06/21/18 18:15	
Methyl tert-Butyl Ether	0.64 U	3.4	0.64	.57	06/21/18 18:15	
Methylcyclohexane	71	3.4	0.81	.57	06/21/18 18:15	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 10:30
Date Received: 06/20/18 17:15

Sample Name: TB-202 12
Lab Code: R1805749-002

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.21 U	3.4	0.21	.57	06/21/18 18:15	
Tetrachloroethene (PCE)	0.60 U	3.4	0.60	.57	06/21/18 18:15	
Toluene	1.2 J	3.4	0.68	.57	06/21/18 18:15	
Trichloroethene (TCE)	0.68 U	3.4	0.68	.57	06/21/18 18:15	
Trichlorofluoromethane (CFC 11)	0.45 U	3.4	0.45	.57	06/21/18 18:15	
Vinyl Chloride	1.3 U	3.4	1.3	.57	06/21/18 18:15	
cis-1,2-Dichloroethene	0.64 U	3.4	0.64	.57	06/21/18 18:15	
cis-1,3-Dichloropropene	0.61 U	3.4	0.61	.57	06/21/18 18:15	
m,p-Xylenes	6.5 J	6.7	0.74	.57	06/21/18 18:15	
n-Butylbenzene	21	3.4	0.66	.57	06/21/18 18:15	
n-Propylbenzene	56	3.4	0.53	.57	06/21/18 18:15	
o-Xylene	0.81 J	3.4	0.33	.57	06/21/18 18:15	
sec-Butylbenzene	14	3.4	0.49	.57	06/21/18 18:15	
tert-Butylbenzene	0.60 J	3.4	0.40	.57	06/21/18 18:15	
trans-1,2-Dichloroethene	0.58 U	3.4	0.58	.57	06/21/18 18:15	
trans-1,3-Dichloropropene	0.14 U	3.4	0.14	.57	06/21/18 18:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	06/21/18 18:15	
Dibromofluoromethane	90	63 - 138	06/21/18 18:15	
Toluene-d8	97	66 - 138	06/21/18 18:15	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	280 U	1900	280	340	06/26/18 15:51	
1,1,2,2-Tetrachloroethane	310 U	1900	310	340	06/26/18 15:51	
1,1,2-Trichloroethane	280 U	1900	280	340	06/26/18 15:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	470 U	1900	470	340	06/26/18 15:51	
1,1-Dichloroethane (1,1-DCA)	470 U	1900	470	340	06/26/18 15:51	
1,1-Dichloroethene (1,1-DCE)	480 U	1900	480	340	06/26/18 15:51	
1,2,3-Trichlorobenzene	240 U	1900	240	340	06/26/18 15:51	
1,2,4-Trichlorobenzene	230 U	1900	230	340	06/26/18 15:51	
1,2,4-Trimethylbenzene	45000 D	1900	210	340	06/26/18 15:51	
1,2-Dibromo-3-chloropropane (DBCP)	700 U	1900	700	340	06/26/18 15:51	
1,2-Dibromoethane	460 U	1900	460	340	06/26/18 15:51	
1,2-Dichlorobenzene	230 U	1900	230	340	06/26/18 15:51	
1,2-Dichloroethane	230 U	1900	230	340	06/26/18 15:51	
1,2-Dichloropropane	370 U	1900	370	340	06/26/18 15:51	
1,3,5-Trimethylbenzene	14000 D	1900	300	340	06/26/18 15:51	
1,3-Dichlorobenzene	240 U	1900	240	340	06/26/18 15:51	
1,4-Dichlorobenzene	210 U	1900	210	340	06/26/18 15:51	
1,4-Dioxane	7200 U	37000	7200	340	06/26/18 15:51	
2-Butanone (MEK)	860 U	1900	860	340	06/26/18 15:51	
2-Hexanone	460 U	1900	460	340	06/26/18 15:51	
4-Isopropyltoluene	620 DJ	1900	330	340	06/26/18 15:51	
4-Methyl-2-pentanone	370 U	1900	370	340	06/26/18 15:51	
Acetone	1100 U	1900	1100	340	06/26/18 15:51	
Benzene	110 U	1900	110	340	06/26/18 15:51	
Bromochloromethane	510 U	1900	510	340	06/26/18 15:51	
Bromodichloromethane	230 U	1900	230	340	06/26/18 15:51	
Bromoform	350 U	1900	350	340	06/26/18 15:51	
Bromomethane	520 U	1900	520	340	06/26/18 15:51	
Carbon Disulfide	470 U	1900	470	340	06/26/18 15:51	
Carbon Tetrachloride	350 U	1900	350	340	06/26/18 15:51	
Chlorobenzene	110 U	1900	110	340	06/26/18 15:51	
Chloroethane	1100 U	1900	1100	340	06/26/18 15:51	
Chloroform	480 U	1900	480	340	06/26/18 15:51	
Chloromethane	150 U	1900	150	340	06/26/18 15:51	
Cyclohexane	30000 D	1900	520	340	06/26/18 15:51	
Dibromochloromethane	280 U	1900	280	340	06/26/18 15:51	
Dichlorodifluoromethane (CFC 12)	710 U	1900	710	340	06/26/18 15:51	
Dichloromethane	220 U	1900	220	340	06/26/18 15:51	
Ethylbenzene	15000 D	1900	87	340	06/26/18 15:51	
Isopropylbenzene (Cumene)	2000 D	1900	260	340	06/26/18 15:51	
Methyl Acetate	660 U	1900	660	340	06/26/18 15:51	
Methyl tert-Butyl Ether	360 U	1900	360	340	06/26/18 15:51	
Methylcyclohexane	17000 D	1900	450	340	06/26/18 15:51	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	120 U	1900	120	340	06/26/18 15:51	
Tetrachloroethene (PCE)	330 U	1900	330	340	06/26/18 15:51	
Toluene	380 U	1900	380	340	06/26/18 15:51	
Trichloroethene (TCE)	380 U	1900	380	340	06/26/18 15:51	
Trichlorofluoromethane (CFC 11)	250 U	1900	250	340	06/26/18 15:51	
Vinyl Chloride	690 U	1900	690	340	06/26/18 15:51	
cis-1,2-Dichloroethene	360 U	1900	360	340	06/26/18 15:51	
cis-1,3-Dichloropropene	340 U	1900	340	340	06/26/18 15:51	
m,p-Xylenes	26000 D	3700	410	340	06/26/18 15:51	
n-Butylbenzene	1500 DJ	1900	370	340	06/26/18 15:51	
n-Propylbenzene	6900 D	1900	300	340	06/26/18 15:51	
o-Xylene	180 U	1900	180	340	06/26/18 15:51	
sec-Butylbenzene	850 DJ	1900	270	340	06/26/18 15:51	
tert-Butylbenzene	220 U	1900	220	340	06/26/18 15:51	
trans-1,2-Dichloroethene	330 U	1900	330	340	06/26/18 15:51	
trans-1,3-Dichloropropene	75 U	1900	75	340	06/26/18 15:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	06/26/18 15:51	
Dibromofluoromethane	90	63 - 138	06/26/18 15:51	
Toluene-d8	103	66 - 138	06/26/18 15:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000078-78-4	Butane, 2-methyl-	1.71	20000	JN
000109-66-0	Pentane	1.92	14000	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.19	35000	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.43	11000	JN
000637-50-3	Benzene, 1-propenyl-	12.08	11000	JN
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	12.46	10000	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.82	9200	JN
	unknown	13.15	10000	J
000107-83-5	Pentane, 2-methyl-	2.76	19000	JN
000096-14-0	Pentane, 3-methyl-	3.03	13000	JN
000110-54-3	Hexane	3.36	16000	JN
000096-37-7	Cyclopentane, methyl-	4.19	12000	JN
000589-34-4	Hexane, 3-methyl-	5.65	13000	JN
001192-18-3	Cyclopentane, 1,2-dimethyl-, cis-	5.96	11000	JN
	unknown	6.05	9200	J
000142-82-5	Heptane	6.35	31000	JN
000592-27-8	Heptane, 2-methyl-	7.91	14000	JN

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000589-81-1	Heptane, 3-methyl-	8.08	14000	JN
000111-65-9	Octane	8.58	14000	JN
	unknown	9.64	10000	J

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.56 U	3.8	0.56	.68	06/21/18 17:05	
1,1,2,2-Tetrachloroethane	0.62 U	3.8	0.62	.68	06/21/18 17:05	
1,1,2-Trichloroethane	0.56 U	3.8	0.56	.68	06/21/18 17:05	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.95 U	3.8	0.95	.68	06/21/18 17:05	
1,1-Dichloroethane (1,1-DCA)	0.96 U	3.8	0.96	.68	06/21/18 17:05	
1,1-Dichloroethene (1,1-DCE)	0.98 U	3.8	0.98	.68	06/21/18 17:05	
1,2,3-Trichlorobenzene	0.48 U	3.8	0.48	.68	06/21/18 17:05	
1,2,4-Trichlorobenzene	0.45 U	3.8	0.45	.68	06/21/18 17:05	
1,2,4-Trimethylbenzene	910 E	3.8	0.42	.68	06/21/18 17:05	
1,2-Dibromo-3-chloropropane (DBCP)	1.5 U	3.8	1.5	.68	06/21/18 17:05	
1,2-Dibromoethane	0.93 U	3.8	0.93	.68	06/21/18 17:05	
1,2-Dichlorobenzene	0.47 U	3.8	0.47	.68	06/21/18 17:05	
1,2-Dichloroethane	0.47 U	3.8	0.47	.68	06/21/18 17:05	
1,2-Dichloropropane	0.74 U	3.8	0.74	.68	06/21/18 17:05	
1,3,5-Trimethylbenzene	93	3.8	0.61	.68	06/21/18 17:05	
1,3-Dichlorobenzene	0.48 U	3.8	0.48	.68	06/21/18 17:05	
1,4-Dichlorobenzene	0.43 U	3.8	0.43	.68	06/21/18 17:05	
1,4-Dioxane	15 U	76	15	.68	06/21/18 17:05	
2-Butanone (MEK)	1.8 U	3.8	1.8	.68	06/21/18 17:05	
2-Hexanone	0.93 U	3.8	0.93	.68	06/21/18 17:05	
4-Isopropyltoluene	4.6	3.8	0.67	.68	06/21/18 17:05	
4-Methyl-2-pentanone	0.75 U	3.8	0.75	.68	06/21/18 17:05	
Acetone	2.2 U	3.8	2.2	.68	06/21/18 17:05	
Benzene	3.8	3.8	0.23	.68	06/21/18 17:05	
Bromochloromethane	1.1 U	3.8	1.1	.68	06/21/18 17:05	
Bromodichloromethane	0.47 U	3.8	0.47	.68	06/21/18 17:05	
Bromoform	0.71 U	3.8	0.71	.68	06/21/18 17:05	
Bromomethane	1.1 U	3.8	1.1	.68	06/21/18 17:05	
Carbon Disulfide	0.95 U	3.8	0.95	.68	06/21/18 17:05	
Carbon Tetrachloride	0.71 U	3.8	0.71	.68	06/21/18 17:05	
Chlorobenzene	0.23 U	3.8	0.23	.68	06/21/18 17:05	
Chloroethane	2.2 U	3.8	2.2	.68	06/21/18 17:05	
Chloroform	0.96 U	3.8	0.96	.68	06/21/18 17:05	
Chloromethane	0.31 U	3.8	0.31	.68	06/21/18 17:05	
Cyclohexane	110	3.8	1.1	.68	06/21/18 17:05	
Dibromochloromethane	0.56 U	3.8	0.56	.68	06/21/18 17:05	
Dichlorodifluoromethane (CFC 12)	1.5 U	3.8	1.5	.68	06/21/18 17:05	
Dichloromethane	0.44 U	3.8	0.44	.68	06/21/18 17:05	
Ethylbenzene	4.0	3.8	0.18	.68	06/21/18 17:05	
Isopropylbenzene (Cumene)	76	3.8	0.52	.68	06/21/18 17:05	
Methyl Acetate	1.4 U	3.8	1.4	.68	06/21/18 17:05	
Methyl tert-Butyl Ether	0.72 U	3.8	0.72	.68	06/21/18 17:05	
Methylcyclohexane	84	3.8	0.92	.68	06/21/18 17:05	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.23 U	3.8	0.23	.68	06/21/18 17:05	
Tetrachloroethene (PCE)	0.68 U	3.8	0.68	.68	06/21/18 17:05	
Toluene	3.9	3.8	0.77	.68	06/21/18 17:05	
Trichloroethene (TCE)	0.77 U	3.8	0.77	.68	06/21/18 17:05	
Trichlorofluoromethane (CFC 11)	0.51 U	3.8	0.51	.68	06/21/18 17:05	
Vinyl Chloride	1.5 U	3.8	1.5	.68	06/21/18 17:05	
cis-1,2-Dichloroethene	0.73 U	3.8	0.73	.68	06/21/18 17:05	
cis-1,3-Dichloropropene	0.69 U	3.8	0.69	.68	06/21/18 17:05	
m,p-Xylenes	720 E	7.6	0.84	.68	06/21/18 17:05	
n-Butylbenzene	8.5	3.8	0.75	.68	06/21/18 17:05	
n-Propylbenzene	260 E	3.8	0.60	.68	06/21/18 17:05	
o-Xylene	9.5	3.8	0.37	.68	06/21/18 17:05	
sec-Butylbenzene	10	3.8	0.55	.68	06/21/18 17:05	
tert-Butylbenzene	0.45 U	3.8	0.45	.68	06/21/18 17:05	
trans-1,2-Dichloroethene	0.66 U	3.8	0.66	.68	06/21/18 17:05	
trans-1,3-Dichloropropene	0.16 U	3.8	0.16	.68	06/21/18 17:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	31 - 154	06/21/18 17:05	
Dibromofluoromethane	94	63 - 138	06/21/18 17:05	
Toluene-d8	97	66 - 138	06/21/18 17:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000078-78-4	Butane, 2-methyl-	1.53	200	JN
000109-66-0	Pentane	1.70	74	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.09	250	JN
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.31	260	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.82	73	JN
000496-11-7	Indane	11.98	340	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	12.29	60	JN
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	12.38	100	JN
027133-93-3	2,3-Dihydro-1-methylindene	12.46	130	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.70	78	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	12.73	75	JN
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	12.94	82	JN
027133-93-3	2,3-Dihydro-1-methylindene	13.07	200	JN
000107-83-5	Pentane, 2-methyl-	2.43	81	JN
000096-14-0	Pentane, 3-methyl-	2.65	78	JN
000096-37-7	Cyclopentane, methyl-	3.65	140	JN
034462-28-7	Cyclopropane, trimethylmethylene-	6.04	79	JN

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	6.36	72	J
016491-15-9	Cyclopentene, 1,5-dimethyl-	7.39	120	JN
000591-49-1	Cyclohexene, 1-methyl-	7.79	61	JN

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	65 U	440	65	79	06/26/18 12:19	
1,1,2,2-Tetrachloroethane	72 U	440	72	79	06/26/18 12:19	
1,1,2-Trichloroethane	65 U	440	65	79	06/26/18 12:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	110 U	440	110	79	06/26/18 12:19	
1,1-Dichloroethane (1,1-DCA)	120 U	440	120	79	06/26/18 12:19	
1,1-Dichloroethene (1,1-DCE)	120 U	440	120	79	06/26/18 12:19	
1,2,3-Trichlorobenzene	55 U	440	55	79	06/26/18 12:19	
1,2,4-Trichlorobenzene	53 U	440	53	79	06/26/18 12:19	
1,2,4-Trimethylbenzene	1900 D	440	48	79	06/26/18 12:19	
1,2-Dibromo-3-chloropropane (DBCP)	170 U	440	170	79	06/26/18 12:19	
1,2-Dibromoethane	110 U	440	110	79	06/26/18 12:19	
1,2-Dichlorobenzene	54 U	440	54	79	06/26/18 12:19	
1,2-Dichloroethane	54 U	440	54	79	06/26/18 12:19	
1,2-Dichloropropane	86 U	440	86	79	06/26/18 12:19	
1,3,5-Trimethylbenzene	160 DJ	440	70	79	06/26/18 12:19	
1,3-Dichlorobenzene	56 U	440	56	79	06/26/18 12:19	
1,4-Dichlorobenzene	50 U	440	50	79	06/26/18 12:19	
1,4-Dioxane	1700 U	8800	1700	79	06/26/18 12:19	
2-Butanone (MEK)	210 U	440	210	79	06/26/18 12:19	
2-Hexanone	110 U	440	110	79	06/26/18 12:19	
4-Isopropyltoluene	77 U	440	77	79	06/26/18 12:19	
4-Methyl-2-pentanone	87 U	440	87	79	06/26/18 12:19	
Acetone	250 U	440	250	79	06/26/18 12:19	
Benzene	26 U	440	26	79	06/26/18 12:19	
Bromochloromethane	130 U	440	130	79	06/26/18 12:19	
Bromodichloromethane	54 U	440	54	79	06/26/18 12:19	
Bromoform	83 U	440	83	79	06/26/18 12:19	
Bromomethane	130 U	440	130	79	06/26/18 12:19	
Carbon Disulfide	110 U	440	110	79	06/26/18 12:19	
Carbon Tetrachloride	82 U	440	82	79	06/26/18 12:19	
Chlorobenzene	26 U	440	26	79	06/26/18 12:19	
Chloroethane	260 U	440	260	79	06/26/18 12:19	
Chloroform	120 U	440	120	79	06/26/18 12:19	
Chloromethane	36 U	440	36	79	06/26/18 12:19	
Cyclohexane	230 DJ	440	130	79	06/26/18 12:19	
Dibromochloromethane	65 U	440	65	79	06/26/18 12:19	
Dichlorodifluoromethane (CFC 12)	170 U	440	170	79	06/26/18 12:19	
Dichloromethane	51 U	440	51	79	06/26/18 12:19	
Ethylbenzene	21 U	440	21	79	06/26/18 12:19	
Isopropylbenzene (Cumene)	120 DJ	440	60	79	06/26/18 12:19	
Methyl Acetate	160 U	440	160	79	06/26/18 12:19	
Methyl tert-Butyl Ether	84 U	440	84	79	06/26/18 12:19	
Methylcyclohexane	200 DJ	440	110	79	06/26/18 12:19	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	27 U	440	27	79	06/26/18 12:19	
Tetrachloroethene (PCE)	78 U	440	78	79	06/26/18 12:19	
Toluene	89 U	440	89	79	06/26/18 12:19	
Trichloroethene (TCE)	90 U	440	90	79	06/26/18 12:19	
Trichlorofluoromethane (CFC 11)	59 U	440	59	79	06/26/18 12:19	
Vinyl Chloride	170 U	440	170	79	06/26/18 12:19	
cis-1,2-Dichloroethene	85 U	440	85	79	06/26/18 12:19	
cis-1,3-Dichloropropene	80 U	440	80	79	06/26/18 12:19	
m,p-Xylenes	750 DJ	880	97	79	06/26/18 12:19	
n-Butylbenzene	87 U	440	87	79	06/26/18 12:19	
n-Propylbenzene	430 DJ	440	70	79	06/26/18 12:19	
o-Xylene	43 U	440	43	79	06/26/18 12:19	
sec-Butylbenzene	64 U	440	64	79	06/26/18 12:19	
tert-Butylbenzene	52 U	440	52	79	06/26/18 12:19	
trans-1,2-Dichloroethene	77 U	440	77	79	06/26/18 12:19	
trans-1,3-Dichloropropene	18 U	440	18	79	06/26/18 12:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	06/26/18 12:19	
Dibromofluoromethane	92	63 - 138	06/26/18 12:19	
Toluene-d8	100	66 - 138	06/26/18 12:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.60	1500	J
000078-78-4	Butane, 2-methyl-	1.68	790	JN
	unknown	1.88	740	J
000622-96-8	Benzene, 1-ethyl-4-methyl-	11.21	560	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.43	490	JN
000496-11-7	Indane	12.08	640	JN
000767-58-8	Indan, 1-methyl-	13.15	560	JN
000096-37-7	Cyclopentane, methyl-	4.18	1200	JN

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Sample Name: TB-208 9
Lab Code: R1805749-005

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.38 U	2.6	0.38	.45	06/22/18 11:36	
1,1,2,2-Tetrachloroethane	0.42 U	2.6	0.42	.45	06/22/18 11:36	
1,1,2-Trichloroethane	0.38 U	2.6	0.38	.45	06/22/18 11:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64 U	2.6	0.64	.45	06/22/18 11:36	
1,1-Dichloroethane (1,1-DCA)	0.65 U	2.6	0.65	.45	06/22/18 11:36	
1,1-Dichloroethene (1,1-DCE)	0.66 U	2.6	0.66	.45	06/22/18 11:36	
1,2,3-Trichlorobenzene	0.32 U	2.6	0.32	.45	06/22/18 11:36	
1,2,4-Trichlorobenzene	0.31 U	2.6	0.31	.45	06/22/18 11:36	
1,2,4-Trimethylbenzene	1.9 J	2.6	0.28	.45	06/22/18 11:36	
1,2-Dibromo-3-chloropropane (DBCP)	0.96 U	2.6	0.96	.45	06/22/18 11:36	
1,2-Dibromoethane	0.63 U	2.6	0.63	.45	06/22/18 11:36	
1,2-Dichlorobenzene	0.32 U	2.6	0.32	.45	06/22/18 11:36	
1,2-Dichloroethane	0.32 U	2.6	0.32	.45	06/22/18 11:36	
1,2-Dichloropropane	0.50 U	2.6	0.50	.45	06/22/18 11:36	
1,3,5-Trimethylbenzene	3.0	2.6	0.41	.45	06/22/18 11:36	
1,3-Dichlorobenzene	0.33 U	2.6	0.33	.45	06/22/18 11:36	
1,4-Dichlorobenzene	0.29 U	2.6	0.29	.45	06/22/18 11:36	
1,4-Dioxane	9.9 U	51	9.9	.45	06/22/18 11:36	
2-Butanone (MEK)	1.2 U	2.6	1.2	.45	06/22/18 11:36	
2-Hexanone	0.63 U	2.6	0.63	.45	06/22/18 11:36	
4-Isopropyltoluene	0.90 J	2.6	0.45	.45	06/22/18 11:36	
4-Methyl-2-pentanone	0.51 U	2.6	0.51	.45	06/22/18 11:36	
Acetone	1.5 U	2.6	1.5	.45	06/22/18 11:36	
Benzene	0.64 J	2.6	0.15	.45	06/22/18 11:36	
Bromochloromethane	0.70 U	2.6	0.70	.45	06/22/18 11:36	
Bromodichloromethane	0.32 U	2.6	0.32	.45	06/22/18 11:36	
Bromoform	0.48 U	2.6	0.48	.45	06/22/18 11:36	
Bromomethane	0.71 U	2.6	0.71	.45	06/22/18 11:36	
Carbon Disulfide	0.76 J	2.6	0.64	.45	06/22/18 11:36	
Carbon Tetrachloride	0.48 U	2.6	0.48	.45	06/22/18 11:36	
Chlorobenzene	0.15 U	2.6	0.15	.45	06/22/18 11:36	
Chloroethane	1.5 U	2.6	1.5	.45	06/22/18 11:36	
Chloroform	0.65 U	2.6	0.65	.45	06/22/18 11:36	
Chloromethane	0.21 U	2.6	0.21	.45	06/22/18 11:36	
Cyclohexane	36	2.6	0.71	.45	06/22/18 11:36	
Dibromochloromethane	0.38 U	2.6	0.38	.45	06/22/18 11:36	
Dichlorodifluoromethane (CFC 12)	0.97 U	2.6	0.97	.45	06/22/18 11:36	
Dichloromethane	0.30 U	2.6	0.30	.45	06/22/18 11:36	
Ethylbenzene	0.12 U	2.6	0.12	.45	06/22/18 11:36	
Isopropylbenzene (Cumene)	1.7 J	2.6	0.35	.45	06/22/18 11:36	
Methyl Acetate	0.90 U	2.6	0.90	.45	06/22/18 11:36	
Methyl tert-Butyl Ether	0.49 U	2.6	0.49	.45	06/22/18 11:36	
Methylcyclohexane	41	2.6	0.62	.45	06/22/18 11:36	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Sample Name: TB-208 9
Lab Code: R1805749-005

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.16 U	2.6	0.16	.45	06/22/18 11:36	
Tetrachloroethene (PCE)	0.46 U	2.6	0.46	.45	06/22/18 11:36	
Toluene	2.4 J	2.6	0.52	.45	06/22/18 11:36	
Trichloroethene (TCE)	0.52 U	2.6	0.52	.45	06/22/18 11:36	
Trichlorofluoromethane (CFC 11)	0.34 U	2.6	0.34	.45	06/22/18 11:36	
Vinyl Chloride	0.95 U	2.6	0.95	.45	06/22/18 11:36	
cis-1,2-Dichloroethene	0.49 U	2.6	0.49	.45	06/22/18 11:36	
cis-1,3-Dichloropropene	0.47 U	2.6	0.47	.45	06/22/18 11:36	
m,p-Xylenes	2.3 J	5.1	0.56	.45	06/22/18 11:36	
n-Butylbenzene	5.1	2.6	0.51	.45	06/22/18 11:36	
n-Propylbenzene	7.0	2.6	0.40	.45	06/22/18 11:36	
o-Xylene	0.52 J	2.6	0.25	.45	06/22/18 11:36	
sec-Butylbenzene	4.5	2.6	0.37	.45	06/22/18 11:36	
tert-Butylbenzene	0.67 J	2.6	0.30	.45	06/22/18 11:36	
trans-1,2-Dichloroethene	0.45 U	2.6	0.45	.45	06/22/18 11:36	
trans-1,3-Dichloropropene	0.11 U	2.6	0.11	.45	06/22/18 11:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	31 - 154	06/22/18 11:36	
Dibromofluoromethane	92	63 - 138	06/22/18 11:36	
Toluene-d8	105	66 - 138	06/22/18 11:36	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	10.80	65	J
	unknown	10.88	52	J
	unknown	11.88	35	J
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	12.38	45	JN
007575-82-8	Tricyclo[3.3.1.1 ^{3,7}]decane, 1-nitr	12.56	92	JN
000702-79-4	Adamantane, 1,3-dimethyl-	12.68	65	JN
002958-76-1	Naphthalene, decahydro-2-methyl-	12.75	48	JN
	unknown	12.81	43	J
	unknown	13.38	44	J
	unknown	5.44	130	J
000592-13-2	Hexane, 2,5-dimethyl-	6.69	59	JN
000589-43-5	Hexane, 2,4-dimethyl-	6.76	97	JN
002815-58-9	Cyclopentane, 1,2,4-trimethyl-	6.99	87	JN
000565-75-3	Pentane, 2,3,4-trimethyl-	7.22	120	JN
	unknown	7.34	62	J
	unknown	7.44	47	J
000584-94-1	Hexane, 2,3-dimethyl-	7.58	100	JN

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Sample Name: TB-208 9
Lab Code: R1805749-005

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000583-48-2	Hexane, 3,4-dimethyl-	7.66	40	JN
000589-81-1	Heptane, 3-methyl-	7.72	84	JN
	unknown	8.96	40	J

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Collected: 06/20/18
Date Received: 06/20/18 17:15

Sample Name: Trip Blank
Lab Code: R1805749-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.25 U	5.0	0.25	1	06/27/18 13:16	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,1,2-Trichloroethane	0.25 U	5.0	0.25	1	06/27/18 13:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,1-Dichloroethene (1,1-DCE)	0.28 U	5.0	0.28	1	06/27/18 13:16	
1,2,3-Trichlorobenzene	0.69 U	5.0	0.69	1	06/27/18 13:16	
1,2,4-Trichlorobenzene	0.50 U	5.0	0.50	1	06/27/18 13:16	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/27/18 13:16	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,2-Dichloropropane	0.21 U	5.0	0.21	1	06/27/18 13:16	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
1,4-Dichlorobenzene	0.24 U	5.0	0.24	1	06/27/18 13:16	
1,4-Dioxane	5.1 U	100	5.1	1	06/27/18 13:16	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/27/18 13:16	
2-Hexanone	0.34 U	10	0.34	1	06/27/18 13:16	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	06/27/18 13:16	
4-Methyl-2-pentanone	0.29 U	10	0.29	1	06/27/18 13:16	
Acetone	2.1 U	10	2.1	1	06/27/18 13:16	
Benzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
Bromochloromethane	0.33 U	5.0	0.33	1	06/27/18 13:16	
Bromodichloromethane	0.31 U	5.0	0.31	1	06/27/18 13:16	
Bromoform	0.36 U	5.0	0.36	1	06/27/18 13:16	
Bromomethane	0.70 U	5.0	0.70	1	06/27/18 13:16	
Carbon Disulfide	0.31 U	10	0.31	1	06/27/18 13:16	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/27/18 13:16	
Chlorobenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
Chloroethane	0.23 U	5.0	0.23	1	06/27/18 13:16	
Chloroform	0.28 U	5.0	0.28	1	06/27/18 13:16	
Chloromethane	0.28 U	5.0	0.28	1	06/27/18 13:16	
Cyclohexane	0.31 U	10	0.31	1	06/27/18 13:16	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/27/18 13:16	
Dichlorodifluoromethane (CFC 12)	0.44 U	5.0	0.44	1	06/27/18 13:16	
Dichloromethane	0.47 U	5.0	0.47	1	06/27/18 13:16	
Ethylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	06/27/18 13:16	
Methyl Acetate	0.33 U	10	0.33	1	06/27/18 13:16	
Methyl tert-Butyl Ether	0.21 U	5.0	0.21	1	06/27/18 13:16	
Methylcyclohexane	0.35 U	10	0.35	1	06/27/18 13:16	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Collected: 06/20/18
Date Received: 06/20/18 17:15

Sample Name: Trip Blank
Lab Code: R1805749-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	06/27/18 13:16	
Tetrachloroethene (PCE)	0.28 U	5.0	0.28	1	06/27/18 13:16	
Toluene	0.20 U	5.0	0.20	1	06/27/18 13:16	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/27/18 13:16	
Trichlorofluoromethane (CFC 11)	0.27 U	5.0	0.27	1	06/27/18 13:16	
Vinyl Chloride	0.22 U	5.0	0.22	1	06/27/18 13:16	
cis-1,2-Dichloroethene	0.26 U	5.0	0.26	1	06/27/18 13:16	
cis-1,3-Dichloropropene	0.30 U	5.0	0.30	1	06/27/18 13:16	
m,p-Xylenes	0.21 U	5.0	0.21	1	06/27/18 13:16	
n-Butylbenzene	0.23 U	5.0	0.23	1	06/27/18 13:16	
n-Propylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
o-Xylene	0.20 U	5.0	0.20	1	06/27/18 13:16	
sec-Butylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
tert-Butylbenzene	0.20 U	5.0	0.20	1	06/27/18 13:16	
trans-1,2-Dichloroethene	0.26 U	5.0	0.26	1	06/27/18 13:16	
trans-1,3-Dichloropropene	0.30 U	5.0	0.30	1	06/27/18 13:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/27/18 13:16	
Dibromofluoromethane	98	89 - 119	06/27/18 13:16	
Toluene-d8	101	87 - 121	06/27/18 13:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	370	110	1	06/22/18 20:28	6/22/18	
2,3,4,6-Tetrachlorophenol	91 U	370	91	1	06/22/18 20:28	6/22/18	
2,4,5-Trichlorophenol	92 U	370	92	1	06/22/18 20:28	6/22/18	
2,4,6-Trichlorophenol	95 U	370	95	1	06/22/18 20:28	6/22/18	
2,4-Dichlorophenol	76 U	370	76	1	06/22/18 20:28	6/22/18	
2,4-Dimethylphenol	70 U	370	70	1	06/22/18 20:28	6/22/18	
2,4-Dinitrophenol	69 U	1900	69	1	06/22/18 20:28	6/22/18	
2,4-Dinitrotoluene	96 U	370	96	1	06/22/18 20:28	6/22/18	
2,6-Dinitrotoluene	130 U	370	130	1	06/22/18 20:28	6/22/18	
2-Chloronaphthalene	82 U	370	82	1	06/22/18 20:28	6/22/18	
2-Chlorophenol	90 U	370	90	1	06/22/18 20:28	6/22/18	
2-Methylnaphthalene	83 U	370	83	1	06/22/18 20:28	6/22/18	
2-Methylphenol	90 U	370	90	1	06/22/18 20:28	6/22/18	
2-Nitroaniline	110 U	1900	110	1	06/22/18 20:28	6/22/18	
2-Nitrophenol	84 U	370	84	1	06/22/18 20:28	6/22/18	
3,3'-Dichlorobenzidine	120 U	370	120	1	06/22/18 20:28	6/22/18	
3- and 4-Methylphenol Coelution	93 U	370	93	1	06/22/18 20:28	6/22/18	
3-Nitroaniline	80 U	1900	80	1	06/22/18 20:28	6/22/18	
4,6-Dinitro-2-methylphenol	80 U	1900	80	1	06/22/18 20:28	6/22/18	
4-Bromophenyl Phenyl Ether	110 U	370	110	1	06/22/18 20:28	6/22/18	
4-Chloro-3-methylphenol	84 U	370	84	1	06/22/18 20:28	6/22/18	
4-Chloroaniline	44 U	370	44	1	06/22/18 20:28	6/22/18	
4-Chlorophenyl Phenyl Ether	88 U	370	88	1	06/22/18 20:28	6/22/18	
4-Nitroaniline	81 U	1900	81	1	06/22/18 20:28	6/22/18	
4-Nitrophenol	220 U	1900	220	1	06/22/18 20:28	6/22/18	
Acenaphthene	82 U	370	82	1	06/22/18 20:28	6/22/18	
Acenaphthylene	75 U	370	75	1	06/22/18 20:28	6/22/18	
Acetophenone	86 U	370	86	1	06/22/18 20:28	6/22/18	
Anthracene	71 U	370	71	1	06/22/18 20:28	6/22/18	
Atrazine	100 U	370	100	1	06/22/18 20:28	6/22/18	
Benz(a)anthracene	65 U	370	65	1	06/22/18 20:28	6/22/18	
Benzaldehyde	88 U	1900	88	1	06/22/18 20:28	6/22/18	
Benzo(a)pyrene	74 U	370	74	1	06/22/18 20:28	6/22/18	
Benzo(b)fluoranthene	67 U	370	67	1	06/22/18 20:28	6/22/18	
Benzo(g,h,i)perylene	84 U	370	84	1	06/22/18 20:28	6/22/18	
Benzo(k)fluoranthene	83 U	370	83	1	06/22/18 20:28	6/22/18	
Biphenyl	86 U	370	86	1	06/22/18 20:28	6/22/18	
2,2'-Oxybis(1-chloropropane)	90 U	370	90	1	06/22/18 20:28	6/22/18	
Bis(2-chloroethoxy)methane	85 U	370	85	1	06/22/18 20:28	6/22/18	
Bis(2-chloroethyl) Ether	67 U	370	67	1	06/22/18 20:28	6/22/18	
Bis(2-ethylhexyl) Phthalate	520 U	560	520	1	06/22/18 20:28	6/22/18	
Butyl Benzyl Phthalate	71 U	370	71	1	06/22/18 20:28	6/22/18	
Caprolactam	82 U	370	82	1	06/22/18 20:28	6/22/18	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	91 U	370	91	1	06/22/18 20:28	6/22/18	
Chrysene	73 U	370	73	1	06/22/18 20:28	6/22/18	
Di-n-butyl Phthalate	130 U	370	130	1	06/22/18 20:28	6/22/18	
Di-n-octyl Phthalate	120 U	370	120	1	06/22/18 20:28	6/22/18	
Dibenz(a,h)anthracene	67 U	370	67	1	06/22/18 20:28	6/22/18	
Dibenzofuran	76 U	370	76	1	06/22/18 20:28	6/22/18	
Diethyl Phthalate	210 U	370	210	1	06/22/18 20:28	6/22/18	
Dimethyl Phthalate	110 U	370	110	1	06/22/18 20:28	6/22/18	
Fluoranthene	87 U	370	87	1	06/22/18 20:28	6/22/18	
Fluorene	93 U	370	93	1	06/22/18 20:28	6/22/18	
Hexachlorobenzene	86 U	370	86	1	06/22/18 20:28	6/22/18	
Hexachlorobutadiene	63 U	370	63	1	06/22/18 20:28	6/22/18	
Hexachlorocyclopentadiene	61 U	370	61	1	06/22/18 20:28	6/22/18	
Hexachloroethane	65 U	370	65	1	06/22/18 20:28	6/22/18	
Indeno(1,2,3-cd)pyrene	81 U	370	81	1	06/22/18 20:28	6/22/18	
Isophorone	80 U	370	80	1	06/22/18 20:28	6/22/18	
N-Nitrosodi-n-propylamine	67 U	370	67	1	06/22/18 20:28	6/22/18	
N-Nitrosodiphenylamine	170 U	370	170	1	06/22/18 20:28	6/22/18	
Naphthalene	76 U	370	76	1	06/22/18 20:28	6/22/18	
Nitrobenzene	76 U	370	76	1	06/22/18 20:28	6/22/18	
Pentachlorophenol (PCP)	130 U	1900	130	1	06/22/18 20:28	6/22/18	
Phenanthrene	77 U	370	77	1	06/22/18 20:28	6/22/18	
Phenol	81 U	370	81	1	06/22/18 20:28	6/22/18	
Pyrene	72 U	370	72	1	06/22/18 20:28	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	10 - 109	06/22/18 20:28	
2-Fluorobiphenyl	52	10 - 102	06/22/18 20:28	
2-Fluorophenol	50	10 - 88	06/22/18 20:28	
Nitrobenzene-d5	53	10 - 95	06/22/18 20:28	
Phenol-d6	56	10 - 145	06/22/18 20:28	
Terphenyl-d14	61	10 - 106	06/22/18 20:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 10:30
Date Received: 06/20/18 17:15

Sample Name: TB-202 12
Lab Code: R1805749-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	120 U	390	120	1	06/22/18 20:56	6/22/18	
2,3,4,6-Tetrachlorophenol	96 U	390	96	1	06/22/18 20:56	6/22/18	
2,4,5-Trichlorophenol	97 U	390	97	1	06/22/18 20:56	6/22/18	
2,4,6-Trichlorophenol	100 U	390	100	1	06/22/18 20:56	6/22/18	
2,4-Dichlorophenol	80 U	390	80	1	06/22/18 20:56	6/22/18	
2,4-Dimethylphenol	74 U	390	74	1	06/22/18 20:56	6/22/18	
2,4-Dinitrophenol	73 U	2000	73	1	06/22/18 20:56	6/22/18	
2,4-Dinitrotoluene	110 U	390	110	1	06/22/18 20:56	6/22/18	
2,6-Dinitrotoluene	140 U	390	140	1	06/22/18 20:56	6/22/18	
2-Chloronaphthalene	86 U	390	86	1	06/22/18 20:56	6/22/18	
2-Chlorophenol	94 U	390	94	1	06/22/18 20:56	6/22/18	
2-Methylnaphthalene	120 J	390	87	1	06/22/18 20:56	6/22/18	
2-Methylphenol	94 U	390	94	1	06/22/18 20:56	6/22/18	
2-Nitroaniline	120 U	2000	120	1	06/22/18 20:56	6/22/18	
2-Nitrophenol	88 U	390	88	1	06/22/18 20:56	6/22/18	
3,3'-Dichlorobenzidine	120 U	390	120	1	06/22/18 20:56	6/22/18	
3- and 4-Methylphenol Coelution	98 U	390	98	1	06/22/18 20:56	6/22/18	
3-Nitroaniline	84 U	2000	84	1	06/22/18 20:56	6/22/18	
4,6-Dinitro-2-methylphenol	84 U	2000	84	1	06/22/18 20:56	6/22/18	
4-Bromophenyl Phenyl Ether	110 U	390	110	1	06/22/18 20:56	6/22/18	
4-Chloro-3-methylphenol	88 U	390	88	1	06/22/18 20:56	6/22/18	
4-Chloroaniline	47 U	390	47	1	06/22/18 20:56	6/22/18	
4-Chlorophenyl Phenyl Ether	92 U	390	92	1	06/22/18 20:56	6/22/18	
4-Nitroaniline	86 U	2000	86	1	06/22/18 20:56	6/22/18	
4-Nitrophenol	230 U	2000	230	1	06/22/18 20:56	6/22/18	
Acenaphthene	86 U	390	86	1	06/22/18 20:56	6/22/18	
Acenaphthylene	79 U	390	79	1	06/22/18 20:56	6/22/18	
Acetophenone	91 U	390	91	1	06/22/18 20:56	6/22/18	
Anthracene	75 U	390	75	1	06/22/18 20:56	6/22/18	
Atrazine	110 U	390	110	1	06/22/18 20:56	6/22/18	
Benz(a)anthracene	68 U	390	68	1	06/22/18 20:56	6/22/18	
Benzaldehyde	92 U	2000	92	1	06/22/18 20:56	6/22/18	
Benzo(a)pyrene	78 U	390	78	1	06/22/18 20:56	6/22/18	
Benzo(b)fluoranthene	71 U	390	71	1	06/22/18 20:56	6/22/18	
Benzo(g,h,i)perylene	88 U	390	88	1	06/22/18 20:56	6/22/18	
Benzo(k)fluoranthene	87 U	390	87	1	06/22/18 20:56	6/22/18	
Biphenyl	91 U	390	91	1	06/22/18 20:56	6/22/18	
2,2'-Oxybis(1-chloropropane)	95 U	390	95	1	06/22/18 20:56	6/22/18	
Bis(2-chloroethoxy)methane	89 U	390	89	1	06/22/18 20:56	6/22/18	
Bis(2-chloroethyl) Ether	71 U	390	71	1	06/22/18 20:56	6/22/18	
Bis(2-ethylhexyl) Phthalate	540 U	590	540	1	06/22/18 20:56	6/22/18	
Butyl Benzyl Phthalate	74 U	390	74	1	06/22/18 20:56	6/22/18	
Caprolactam	86 U	390	86	1	06/22/18 20:56	6/22/18	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 10:30
Date Received: 06/20/18 17:15

Sample Name: TB-202 12
Lab Code: R1805749-002

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	96 U	390	96	1	06/22/18 20:56	6/22/18	
Chrysene	76 U	390	76	1	06/22/18 20:56	6/22/18	
Di-n-butyl Phthalate	130 U	390	130	1	06/22/18 20:56	6/22/18	
Di-n-octyl Phthalate	120 U	390	120	1	06/22/18 20:56	6/22/18	
Dibenz(a,h)anthracene	70 U	390	70	1	06/22/18 20:56	6/22/18	
Dibenzofuran	79 U	390	79	1	06/22/18 20:56	6/22/18	
Diethyl Phthalate	220 U	390	220	1	06/22/18 20:56	6/22/18	
Dimethyl Phthalate	110 U	390	110	1	06/22/18 20:56	6/22/18	
Fluoranthene	91 U	390	91	1	06/22/18 20:56	6/22/18	
Fluorene	97 U	390	97	1	06/22/18 20:56	6/22/18	
Hexachlorobenzene	90 U	390	90	1	06/22/18 20:56	6/22/18	
Hexachlorobutadiene	66 U	390	66	1	06/22/18 20:56	6/22/18	
Hexachlorocyclopentadiene	64 U	390	64	1	06/22/18 20:56	6/22/18	
Hexachloroethane	68 U	390	68	1	06/22/18 20:56	6/22/18	
Indeno(1,2,3-cd)pyrene	86 U	390	86	1	06/22/18 20:56	6/22/18	
Isophorone	84 U	390	84	1	06/22/18 20:56	6/22/18	
N-Nitrosodi-n-propylamine	71 U	390	71	1	06/22/18 20:56	6/22/18	
N-Nitrosodiphenylamine	180 U	390	180	1	06/22/18 20:56	6/22/18	
Naphthalene	80 U	390	80	1	06/22/18 20:56	6/22/18	
Nitrobenzene	80 U	390	80	1	06/22/18 20:56	6/22/18	
Pentachlorophenol (PCP)	130 U	2000	130	1	06/22/18 20:56	6/22/18	
Phenanthrene	81 U	390	81	1	06/22/18 20:56	6/22/18	
Phenol	85 U	390	85	1	06/22/18 20:56	6/22/18	
Pyrene	76 U	390	76	1	06/22/18 20:56	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	10 - 109	06/22/18 20:56	
2-Fluorobiphenyl	50	10 - 102	06/22/18 20:56	
2-Fluorophenol	46	10 - 88	06/22/18 20:56	
Nitrobenzene-d5	48	10 - 95	06/22/18 20:56	
Phenol-d6	50	10 - 145	06/22/18 20:56	
Terphenyl-d14	51	10 - 106	06/22/18 20:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	360	110	1	06/22/18 21:24	6/22/18	
2,3,4,6-Tetrachlorophenol	89 U	360	89	1	06/22/18 21:24	6/22/18	
2,4,5-Trichlorophenol	90 U	360	90	1	06/22/18 21:24	6/22/18	
2,4,6-Trichlorophenol	94 U	360	94	1	06/22/18 21:24	6/22/18	
2,4-Dichlorophenol	75 U	360	75	1	06/22/18 21:24	6/22/18	
2,4-Dimethylphenol	69 U	360	69	1	06/22/18 21:24	6/22/18	
2,4-Dinitrophenol	68 U	1900	68	1	06/22/18 21:24	6/22/18	
2,4-Dinitrotoluene	94 U	360	94	1	06/22/18 21:24	6/22/18	
2,6-Dinitrotoluene	130 U	360	130	1	06/22/18 21:24	6/22/18	
2-Chloronaphthalene	80 U	360	80	1	06/22/18 21:24	6/22/18	
2-Chlorophenol	88 U	360	88	1	06/22/18 21:24	6/22/18	
2-Methylnaphthalene	560	360	81	1	06/22/18 21:24	6/22/18	
2-Methylphenol	88 U	360	88	1	06/22/18 21:24	6/22/18	
2-Nitroaniline	110 U	1900	110	1	06/22/18 21:24	6/22/18	
2-Nitrophenol	82 U	360	82	1	06/22/18 21:24	6/22/18	
3,3'-Dichlorobenzidine	120 U	360	120	1	06/22/18 21:24	6/22/18	
3- and 4-Methylphenol Coelution	91 U	360	91	1	06/22/18 21:24	6/22/18	
3-Nitroaniline	78 U	1900	78	1	06/22/18 21:24	6/22/18	
4,6-Dinitro-2-methylphenol	78 U	1900	78	1	06/22/18 21:24	6/22/18	
4-Bromophenyl Phenyl Ether	110 U	360	110	1	06/22/18 21:24	6/22/18	
4-Chloro-3-methylphenol	83 U	360	83	1	06/22/18 21:24	6/22/18	
4-Chloroaniline	44 U	360	44	1	06/22/18 21:24	6/22/18	
4-Chlorophenyl Phenyl Ether	86 U	360	86	1	06/22/18 21:24	6/22/18	
4-Nitroaniline	80 U	1900	80	1	06/22/18 21:24	6/22/18	
4-Nitrophenol	210 U	1900	210	1	06/22/18 21:24	6/22/18	
Acenaphthene	80 U	360	80	1	06/22/18 21:24	6/22/18	
Acenaphthylene	74 U	360	74	1	06/22/18 21:24	6/22/18	
Acetophenone	85 U	360	85	1	06/22/18 21:24	6/22/18	
Anthracene	70 U	360	70	1	06/22/18 21:24	6/22/18	
Atrazine	98 U	360	98	1	06/22/18 21:24	6/22/18	
Benz(a)anthracene	63 U	360	63	1	06/22/18 21:24	6/22/18	
Benzaldehyde	86 U	1900	86	1	06/22/18 21:24	6/22/18	
Benzo(a)pyrene	73 U	360	73	1	06/22/18 21:24	6/22/18	
Benzo(b)fluoranthene	66 U	360	66	1	06/22/18 21:24	6/22/18	
Benzo(g,h,i)perylene	82 U	360	82	1	06/22/18 21:24	6/22/18	
Benzo(k)fluoranthene	81 U	360	81	1	06/22/18 21:24	6/22/18	
Biphenyl	85 U	360	85	1	06/22/18 21:24	6/22/18	
2,2'-Oxybis(1-chloropropane)	89 U	360	89	1	06/22/18 21:24	6/22/18	
Bis(2-chloroethoxy)methane	83 U	360	83	1	06/22/18 21:24	6/22/18	
Bis(2-chloroethyl) Ether	66 U	360	66	1	06/22/18 21:24	6/22/18	
Bis(2-ethylhexyl) Phthalate	510 U	550	510	1	06/22/18 21:24	6/22/18	
Butyl Benzyl Phthalate	69 U	360	69	1	06/22/18 21:24	6/22/18	
Caprolactam	80 U	360	80	1	06/22/18 21:24	6/22/18	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	90 U	360	90	1	06/22/18 21:24	6/22/18	
Chrysene	71 U	360	71	1	06/22/18 21:24	6/22/18	
Di-n-butyl Phthalate	130 U	360	130	1	06/22/18 21:24	6/22/18	
Di-n-octyl Phthalate	110 U	360	110	1	06/22/18 21:24	6/22/18	
Dibenz(a,h)anthracene	66 U	360	66	1	06/22/18 21:24	6/22/18	
Dibenzofuran	74 U	360	74	1	06/22/18 21:24	6/22/18	
Diethyl Phthalate	200 U	360	200	1	06/22/18 21:24	6/22/18	
Dimethyl Phthalate	100 U	360	100	1	06/22/18 21:24	6/22/18	
Fluoranthene	85 U	360	85	1	06/22/18 21:24	6/22/18	
Fluorene	91 U	360	91	1	06/22/18 21:24	6/22/18	
Hexachlorobenzene	84 U	360	84	1	06/22/18 21:24	6/22/18	
Hexachlorobutadiene	61 U	360	61	1	06/22/18 21:24	6/22/18	
Hexachlorocyclopentadiene	60 U	360	60	1	06/22/18 21:24	6/22/18	
Hexachloroethane	63 U	360	63	1	06/22/18 21:24	6/22/18	
Indeno(1,2,3-cd)pyrene	80 U	360	80	1	06/22/18 21:24	6/22/18	
Isophorone	78 U	360	78	1	06/22/18 21:24	6/22/18	
N-Nitrosodi-n-propylamine	66 U	360	66	1	06/22/18 21:24	6/22/18	
N-Nitrosodiphenylamine	170 U	360	170	1	06/22/18 21:24	6/22/18	
Naphthalene	560	360	74	1	06/22/18 21:24	6/22/18	
Nitrobenzene	74 U	360	74	1	06/22/18 21:24	6/22/18	
Pentachlorophenol (PCP)	120 U	1900	120	1	06/22/18 21:24	6/22/18	
Phenanthrene	75 U	360	75	1	06/22/18 21:24	6/22/18	
Phenol	79 U	360	79	1	06/22/18 21:24	6/22/18	
Pyrene	71 U	360	71	1	06/22/18 21:24	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	53	10 - 109	06/22/18 21:24	
2-Fluorobiphenyl	38	10 - 102	06/22/18 21:24	
2-Fluorophenol	35	10 - 88	06/22/18 21:24	
Nitrobenzene-d5	38	10 - 95	06/22/18 21:24	
Phenol-d6	39	10 - 145	06/22/18 21:24	
Terphenyl-d14	50	10 - 106	06/22/18 21:24	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	370	110	1	06/22/18 21:52	6/22/18	
2,3,4,6-Tetrachlorophenol	91 U	370	91	1	06/22/18 21:52	6/22/18	
2,4,5-Trichlorophenol	92 U	370	92	1	06/22/18 21:52	6/22/18	
2,4,6-Trichlorophenol	96 U	370	96	1	06/22/18 21:52	6/22/18	
2,4-Dichlorophenol	76 U	370	76	1	06/22/18 21:52	6/22/18	
2,4-Dimethylphenol	71 U	370	71	1	06/22/18 21:52	6/22/18	
2,4-Dinitrophenol	69 U	1900	69	1	06/22/18 21:52	6/22/18	
2,4-Dinitrotoluene	96 U	370	96	1	06/22/18 21:52	6/22/18	
2,6-Dinitrotoluene	130 U	370	130	1	06/22/18 21:52	6/22/18	
2-Chloronaphthalene	82 U	370	82	1	06/22/18 21:52	6/22/18	
2-Chlorophenol	90 U	370	90	1	06/22/18 21:52	6/22/18	
2-Methylnaphthalene	83 U	370	83	1	06/22/18 21:52	6/22/18	
2-Methylphenol	90 U	370	90	1	06/22/18 21:52	6/22/18	
2-Nitroaniline	110 U	1900	110	1	06/22/18 21:52	6/22/18	
2-Nitrophenol	84 U	370	84	1	06/22/18 21:52	6/22/18	
3,3'-Dichlorobenzidine	120 U	370	120	1	06/22/18 21:52	6/22/18	
3- and 4-Methylphenol Coelution	93 U	370	93	1	06/22/18 21:52	6/22/18	
3-Nitroaniline	80 U	1900	80	1	06/22/18 21:52	6/22/18	
4,6-Dinitro-2-methylphenol	80 U	1900	80	1	06/22/18 21:52	6/22/18	
4-Bromophenyl Phenyl Ether	110 U	370	110	1	06/22/18 21:52	6/22/18	
4-Chloro-3-methylphenol	84 U	370	84	1	06/22/18 21:52	6/22/18	
4-Chloroaniline	45 U	370	45	1	06/22/18 21:52	6/22/18	
4-Chlorophenyl Phenyl Ether	88 U	370	88	1	06/22/18 21:52	6/22/18	
4-Nitroaniline	82 U	1900	82	1	06/22/18 21:52	6/22/18	
4-Nitrophenol	220 U	1900	220	1	06/22/18 21:52	6/22/18	
Acenaphthene	82 U	370	82	1	06/22/18 21:52	6/22/18	
Acenaphthylene	76 U	370	76	1	06/22/18 21:52	6/22/18	
Acetophenone	86 U	370	86	1	06/22/18 21:52	6/22/18	
Anthracene	72 U	370	72	1	06/22/18 21:52	6/22/18	
Atrazine	100 U	370	100	1	06/22/18 21:52	6/22/18	
Benz(a)anthracene	65 U	370	65	1	06/22/18 21:52	6/22/18	
Benzaldehyde	88 U	1900	88	1	06/22/18 21:52	6/22/18	
Benzo(a)pyrene	75 U	370	75	1	06/22/18 21:52	6/22/18	
Benzo(b)fluoranthene	68 U	370	68	1	06/22/18 21:52	6/22/18	
Benzo(g,h,i)perylene	84 U	370	84	1	06/22/18 21:52	6/22/18	
Benzo(k)fluoranthene	83 U	370	83	1	06/22/18 21:52	6/22/18	
Biphenyl	87 U	370	87	1	06/22/18 21:52	6/22/18	
2,2'-Oxybis(1-chloropropane)	91 U	370	91	1	06/22/18 21:52	6/22/18	
Bis(2-chloroethoxy)methane	85 U	370	85	1	06/22/18 21:52	6/22/18	
Bis(2-chloroethyl) Ether	67 U	370	67	1	06/22/18 21:52	6/22/18	
Bis(2-ethylhexyl) Phthalate	520 U	560	520	1	06/22/18 21:52	6/22/18	
Butyl Benzyl Phthalate	71 U	370	71	1	06/22/18 21:52	6/22/18	
Caprolactam	82 U	370	82	1	06/22/18 21:52	6/22/18	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	92 U	370	92	1	06/22/18 21:52	6/22/18	
Chrysene	73 U	370	73	1	06/22/18 21:52	6/22/18	
Di-n-butyl Phthalate	130 U	370	130	1	06/22/18 21:52	6/22/18	
Di-n-octyl Phthalate	120 U	370	120	1	06/22/18 21:52	6/22/18	
Dibenz(a,h)anthracene	67 U	370	67	1	06/22/18 21:52	6/22/18	
Dibenzofuran	76 U	370	76	1	06/22/18 21:52	6/22/18	
Diethyl Phthalate	210 U	370	210	1	06/22/18 21:52	6/22/18	
Dimethyl Phthalate	110 U	370	110	1	06/22/18 21:52	6/22/18	
Fluoranthene	87 U	370	87	1	06/22/18 21:52	6/22/18	
Fluorene	93 U	370	93	1	06/22/18 21:52	6/22/18	
Hexachlorobenzene	86 U	370	86	1	06/22/18 21:52	6/22/18	
Hexachlorobutadiene	63 U	370	63	1	06/22/18 21:52	6/22/18	
Hexachlorocyclopentadiene	61 U	370	61	1	06/22/18 21:52	6/22/18	
Hexachloroethane	65 U	370	65	1	06/22/18 21:52	6/22/18	
Indeno(1,2,3-cd)pyrene	82 U	370	82	1	06/22/18 21:52	6/22/18	
Isophorone	80 U	370	80	1	06/22/18 21:52	6/22/18	
N-Nitrosodi-n-propylamine	67 U	370	67	1	06/22/18 21:52	6/22/18	
N-Nitrosodiphenylamine	170 U	370	170	1	06/22/18 21:52	6/22/18	
Naphthalene	76 U	370	76	1	06/22/18 21:52	6/22/18	
Nitrobenzene	76 U	370	76	1	06/22/18 21:52	6/22/18	
Pentachlorophenol (PCP)	130 U	1900	130	1	06/22/18 21:52	6/22/18	
Phenanthrene	77 U	370	77	1	06/22/18 21:52	6/22/18	
Phenol	81 U	370	81	1	06/22/18 21:52	6/22/18	
Pyrene	72 U	370	72	1	06/22/18 21:52	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	47	10 - 109	06/22/18 21:52	
2-Fluorobiphenyl	34	10 - 102	06/22/18 21:52	
2-Fluorophenol	32	10 - 88	06/22/18 21:52	
Nitrobenzene-d5	35	10 - 95	06/22/18 21:52	
Phenol-d6	34	10 - 145	06/22/18 21:52	
Terphenyl-d14	47	10 - 106	06/22/18 21:52	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Sample Name: TB-208 9
Lab Code: R1805749-005

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	370	110	1	06/22/18 22:20	6/22/18	
2,3,4,6-Tetrachlorophenol	92 U	370	92	1	06/22/18 22:20	6/22/18	
2,4,5-Trichlorophenol	93 U	370	93	1	06/22/18 22:20	6/22/18	
2,4,6-Trichlorophenol	96 U	370	96	1	06/22/18 22:20	6/22/18	
2,4-Dichlorophenol	76 U	370	76	1	06/22/18 22:20	6/22/18	
2,4-Dimethylphenol	71 U	370	71	1	06/22/18 22:20	6/22/18	
2,4-Dinitrophenol	70 U	1900	70	1	06/22/18 22:20	6/22/18	
2,4-Dinitrotoluene	97 U	370	97	1	06/22/18 22:20	6/22/18	
2,6-Dinitrotoluene	130 U	370	130	1	06/22/18 22:20	6/22/18	
2-Chloronaphthalene	82 U	370	82	1	06/22/18 22:20	6/22/18	
2-Chlorophenol	90 U	370	90	1	06/22/18 22:20	6/22/18	
2-Methylnaphthalene	83 U	370	83	1	06/22/18 22:20	6/22/18	
2-Methylphenol	90 U	370	90	1	06/22/18 22:20	6/22/18	
2-Nitroaniline	110 U	1900	110	1	06/22/18 22:20	6/22/18	
2-Nitrophenol	85 U	370	85	1	06/22/18 22:20	6/22/18	
3,3'-Dichlorobenzidine	120 U	370	120	1	06/22/18 22:20	6/22/18	
3- and 4-Methylphenol Coelution	94 U	370	94	1	06/22/18 22:20	6/22/18	
3-Nitroaniline	80 U	1900	80	1	06/22/18 22:20	6/22/18	
4,6-Dinitro-2-methylphenol	80 U	1900	80	1	06/22/18 22:20	6/22/18	
4-Bromophenyl Phenyl Ether	110 U	370	110	1	06/22/18 22:20	6/22/18	
4-Chloro-3-methylphenol	85 U	370	85	1	06/22/18 22:20	6/22/18	
4-Chloroaniline	45 U	370	45	1	06/22/18 22:20	6/22/18	
4-Chlorophenyl Phenyl Ether	89 U	370	89	1	06/22/18 22:20	6/22/18	
4-Nitroaniline	82 U	1900	82	1	06/22/18 22:20	6/22/18	
4-Nitrophenol	220 U	1900	220	1	06/22/18 22:20	6/22/18	
Acenaphthene	82 U	370	82	1	06/22/18 22:20	6/22/18	
Acenaphthylene	76 U	370	76	1	06/22/18 22:20	6/22/18	
Acetophenone	87 U	370	87	1	06/22/18 22:20	6/22/18	
Anthracene	72 U	370	72	1	06/22/18 22:20	6/22/18	
Atrazine	100 U	370	100	1	06/22/18 22:20	6/22/18	
Benz(a)anthracene	65 U	370	65	1	06/22/18 22:20	6/22/18	
Benzaldehyde	88 U	1900	88	1	06/22/18 22:20	6/22/18	
Benzo(a)pyrene	75 U	370	75	1	06/22/18 22:20	6/22/18	
Benzo(b)fluoranthene	68 U	370	68	1	06/22/18 22:20	6/22/18	
Benzo(g,h,i)perylene	85 U	370	85	1	06/22/18 22:20	6/22/18	
Benzo(k)fluoranthene	83 U	370	83	1	06/22/18 22:20	6/22/18	
Biphenyl	87 U	370	87	1	06/22/18 22:20	6/22/18	
2,2'-Oxybis(1-chloropropane)	91 U	370	91	1	06/22/18 22:20	6/22/18	
Bis(2-chloroethoxy)methane	85 U	370	85	1	06/22/18 22:20	6/22/18	
Bis(2-chloroethyl) Ether	68 U	370	68	1	06/22/18 22:20	6/22/18	
Bis(2-ethylhexyl) Phthalate	520 U	560	520	1	06/22/18 22:20	6/22/18	
Butyl Benzyl Phthalate	71 U	370	71	1	06/22/18 22:20	6/22/18	
Caprolactam	83 U	370	83	1	06/22/18 22:20	6/22/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Sample Name: TB-208 9
Lab Code: R1805749-005

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	92 U	370	92	1	06/22/18 22:20	6/22/18	
Chrysene	73 U	370	73	1	06/22/18 22:20	6/22/18	
Di-n-butyl Phthalate	130 U	370	130	1	06/22/18 22:20	6/22/18	
Di-n-octyl Phthalate	120 U	370	120	1	06/22/18 22:20	6/22/18	
Dibenz(a,h)anthracene	67 U	370	67	1	06/22/18 22:20	6/22/18	
Dibenzofuran	76 U	370	76	1	06/22/18 22:20	6/22/18	
Diethyl Phthalate	210 U	370	210	1	06/22/18 22:20	6/22/18	
Dimethyl Phthalate	110 U	370	110	1	06/22/18 22:20	6/22/18	
Fluoranthene	87 U	370	87	1	06/22/18 22:20	6/22/18	
Fluorene	93 U	370	93	1	06/22/18 22:20	6/22/18	
Hexachlorobenzene	87 U	370	87	1	06/22/18 22:20	6/22/18	
Hexachlorobutadiene	63 U	370	63	1	06/22/18 22:20	6/22/18	
Hexachlorocyclopentadiene	62 U	370	62	1	06/22/18 22:20	6/22/18	
Hexachloroethane	65 U	370	65	1	06/22/18 22:20	6/22/18	
Indeno(1,2,3-cd)pyrene	82 U	370	82	1	06/22/18 22:20	6/22/18	
Isophorone	80 U	370	80	1	06/22/18 22:20	6/22/18	
N-Nitrosodi-n-propylamine	68 U	370	68	1	06/22/18 22:20	6/22/18	
N-Nitrosodiphenylamine	170 U	370	170	1	06/22/18 22:20	6/22/18	
Naphthalene	76 U	370	76	1	06/22/18 22:20	6/22/18	
Nitrobenzene	76 U	370	76	1	06/22/18 22:20	6/22/18	
Pentachlorophenol (PCP)	130 U	1900	130	1	06/22/18 22:20	6/22/18	
Phenanthrene	77 U	370	77	1	06/22/18 22:20	6/22/18	
Phenol	81 U	370	81	1	06/22/18 22:20	6/22/18	
Pyrene	72 U	370	72	1	06/22/18 22:20	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	10 - 109	06/22/18 22:20	
2-Fluorobiphenyl	44	10 - 102	06/22/18 22:20	
2-Fluorophenol	39	10 - 88	06/22/18 22:20	
Nitrobenzene-d5	41	10 - 95	06/22/18 22:20	
Phenol-d6	47	10 - 145	06/22/18 22:20	
Terphenyl-d14	55	10 - 106	06/22/18 22:20	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			



General Chemistry

ALS Environmental—Rochester Laboratory

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Sample Name: TB-204 8-9
Lab Code: R1805749-001

Service Request: R1805749
Date Collected: 06/20/18 09:45
Date Received: 06/20/18 17:15

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	89.8	Percent	-	-	1	06/25/18 15:30	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Sample Name: TB-202 12
Lab Code: R1805749-002

Service Request: R1805749
Date Collected: 06/20/18 10:30
Date Received: 06/20/18 17:15

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	84.7	Percent	-	-	1	06/25/18 15:30	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Sample Name: TB-207 10-11
Lab Code: R1805749-003

Service Request: R1805749
Date Collected: 06/20/18 15:15
Date Received: 06/20/18 17:15

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	90.9	Percent	-	-	1	06/25/18 15:30	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Sample Name: TB-206A 10-11
Lab Code: R1805749-004

Service Request: R1805749
Date Collected: 06/20/18 14:45
Date Received: 06/20/18 17:15

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	89.3	Percent	-	-	1	06/25/18 15:30	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Sample Name: TB-208 9
Lab Code: R1805749-005

Service Request: R1805749
Date Collected: 06/20/18 15:40
Date Received: 06/20/18 17:15

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	87.8	Percent	-	-	1	06/25/18 15:30	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		31-154	63-138	66-138
TB-204 8-9	R1805749-001	121	90	109
TB-202 12	R1805749-002	89	90	97
TB-206A 10-11	R1805749-004	87	94	97
TB-208 9	R1805749-005	115	92	105
Method Blank	RQ1806155-04	89	93	95
Method Blank	RQ1806234-04	89	91	94
Lab Control Sample	RQ1806155-03	92	99	95
Lab Control Sample	RQ1806234-03	90	97	96
TB-204 8-9 DL	R1805749-001	96	91	103
TB-207 10-11	R1805749-003	99	90	103
TB-206A 10-11 DL	R1805749-004	93	92	100
Method Blank	RQ1806438-04	95	95	103
Lab Control Sample	RQ1806438-03	100	99	102

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806155-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.73 U	5.0	0.73	1	06/21/18 10:44	
1,1,2,2-Tetrachloroethane	0.81 U	5.0	0.81	1	06/21/18 10:44	
1,1,2-Trichloroethane	0.73 U	5.0	0.73	1	06/21/18 10:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3 U	5.0	1.3	1	06/21/18 10:44	
1,1-Dichloroethane (1,1-DCA)	1.3 U	5.0	1.3	1	06/21/18 10:44	
1,1-Dichloroethene (1,1-DCE)	1.3 U	5.0	1.3	1	06/21/18 10:44	
1,2,3-Trichlorobenzene	0.62 U	5.0	0.62	1	06/21/18 10:44	
1,2,4-Trichlorobenzene	0.59 U	5.0	0.59	1	06/21/18 10:44	
1,2,4-Trimethylbenzene	0.54 U	5.0	0.54	1	06/21/18 10:44	
1,2-Dibromo-3-chloropropane (DBCP)	1.9 U	5.0	1.9	1	06/21/18 10:44	
1,2-Dibromoethane	1.3 U	5.0	1.3	1	06/21/18 10:44	
1,2-Dichlorobenzene	0.61 U	5.0	0.61	1	06/21/18 10:44	
1,2-Dichloroethane	0.61 U	5.0	0.61	1	06/21/18 10:44	
1,2-Dichloropropane	0.97 U	5.0	0.97	1	06/21/18 10:44	
1,3,5-Trimethylbenzene	0.79 U	5.0	0.79	1	06/21/18 10:44	
1,3-Dichlorobenzene	0.63 U	5.0	0.63	1	06/21/18 10:44	
1,4-Dichlorobenzene	0.56 U	5.0	0.56	1	06/21/18 10:44	
1,4-Dioxane	20 U	100	20	1	06/21/18 10:44	
2-Butanone (MEK)	2.3 U	5.0	2.3	1	06/21/18 10:44	
2-Hexanone	1.3 U	5.0	1.3	1	06/21/18 10:44	
4-Isopropyltoluene	0.87 U	5.0	0.87	1	06/21/18 10:44	
4-Methyl-2-pentanone	0.98 U	5.0	0.98	1	06/21/18 10:44	
Acetone	2.9 U	5.0	2.9	1	06/21/18 10:44	
Benzene	0.29 U	5.0	0.29	1	06/21/18 10:44	
Bromochloromethane	1.4 U	5.0	1.4	1	06/21/18 10:44	
Bromodichloromethane	0.61 U	5.0	0.61	1	06/21/18 10:44	
Bromoform	0.93 U	5.0	0.93	1	06/21/18 10:44	
Bromomethane	1.4 U	5.0	1.4	1	06/21/18 10:44	
Carbon Disulfide	1.3 U	5.0	1.3	1	06/21/18 10:44	
Carbon Tetrachloride	0.92 U	5.0	0.92	1	06/21/18 10:44	
Chlorobenzene	0.29 U	5.0	0.29	1	06/21/18 10:44	
Chloroethane	2.9 U	5.0	2.9	1	06/21/18 10:44	
Chloroform	1.3 U	5.0	1.3	1	06/21/18 10:44	
Chloromethane	0.40 U	5.0	0.40	1	06/21/18 10:44	
Cyclohexane	1.4 U	5.0	1.4	1	06/21/18 10:44	
Dibromochloromethane	0.73 U	5.0	0.73	1	06/21/18 10:44	
Dichlorodifluoromethane (CFC 12)	1.9 U	5.0	1.9	1	06/21/18 10:44	
Dichloromethane	0.57 U	5.0	0.57	1	06/21/18 10:44	
Ethylbenzene	0.23 U	5.0	0.23	1	06/21/18 10:44	
Isopropylbenzene (Cumene)	0.67 U	5.0	0.67	1	06/21/18 10:44	
Methyl Acetate	1.8 U	5.0	1.8	1	06/21/18 10:44	
Methyl tert-Butyl Ether	0.94 U	5.0	0.94	1	06/21/18 10:44	
Methylcyclohexane	1.2 U	5.0	1.2	1	06/21/18 10:44	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806155-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.30 U	5.0	0.30	1	06/21/18 10:44	
Tetrachloroethene (PCE)	0.88 U	5.0	0.88	1	06/21/18 10:44	
Toluene	1.0 U	5.0	1.0	1	06/21/18 10:44	
Trichloroethene (TCE)	1.1 U	5.0	1.1	1	06/21/18 10:44	
Trichlorofluoromethane (CFC 11)	0.66 U	5.0	0.66	1	06/21/18 10:44	
Vinyl Chloride	1.9 U	5.0	1.9	1	06/21/18 10:44	
cis-1,2-Dichloroethene	0.95 U	5.0	0.95	1	06/21/18 10:44	
cis-1,3-Dichloropropene	0.90 U	5.0	0.90	1	06/21/18 10:44	
m,p-Xylenes	1.1 U	10	1.1	1	06/21/18 10:44	
n-Butylbenzene	0.98 U	5.0	0.98	1	06/21/18 10:44	
n-Propylbenzene	0.78 U	5.0	0.78	1	06/21/18 10:44	
o-Xylene	0.48 U	5.0	0.48	1	06/21/18 10:44	
sec-Butylbenzene	0.72 U	5.0	0.72	1	06/21/18 10:44	
tert-Butylbenzene	0.58 U	5.0	0.58	1	06/21/18 10:44	
trans-1,2-Dichloroethene	0.86 U	5.0	0.86	1	06/21/18 10:44	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/21/18 10:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	06/21/18 10:44	
Dibromofluoromethane	93	63 - 138	06/21/18 10:44	
Toluene-d8	95	66 - 138	06/21/18 10:44	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.38	5.0	J

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806234-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.73 U	5.0	0.73	1	06/22/18 10:28	
1,1,2,2-Tetrachloroethane	0.81 U	5.0	0.81	1	06/22/18 10:28	
1,1,2-Trichloroethane	0.73 U	5.0	0.73	1	06/22/18 10:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3 U	5.0	1.3	1	06/22/18 10:28	
1,1-Dichloroethane (1,1-DCA)	1.3 U	5.0	1.3	1	06/22/18 10:28	
1,1-Dichloroethene (1,1-DCE)	1.3 U	5.0	1.3	1	06/22/18 10:28	
1,2,3-Trichlorobenzene	0.62 U	5.0	0.62	1	06/22/18 10:28	
1,2,4-Trichlorobenzene	0.59 U	5.0	0.59	1	06/22/18 10:28	
1,2,4-Trimethylbenzene	0.54 U	5.0	0.54	1	06/22/18 10:28	
1,2-Dibromo-3-chloropropane (DBCP)	1.9 U	5.0	1.9	1	06/22/18 10:28	
1,2-Dibromoethane	1.3 U	5.0	1.3	1	06/22/18 10:28	
1,2-Dichlorobenzene	0.61 U	5.0	0.61	1	06/22/18 10:28	
1,2-Dichloroethane	0.61 U	5.0	0.61	1	06/22/18 10:28	
1,2-Dichloropropane	0.97 U	5.0	0.97	1	06/22/18 10:28	
1,3,5-Trimethylbenzene	0.79 U	5.0	0.79	1	06/22/18 10:28	
1,3-Dichlorobenzene	0.63 U	5.0	0.63	1	06/22/18 10:28	
1,4-Dichlorobenzene	0.56 U	5.0	0.56	1	06/22/18 10:28	
1,4-Dioxane	20 U	100	20	1	06/22/18 10:28	
2-Butanone (MEK)	2.3 U	5.0	2.3	1	06/22/18 10:28	
2-Hexanone	1.3 U	5.0	1.3	1	06/22/18 10:28	
4-Isopropyltoluene	0.87 U	5.0	0.87	1	06/22/18 10:28	
4-Methyl-2-pentanone	0.98 U	5.0	0.98	1	06/22/18 10:28	
Acetone	2.9 U	5.0	2.9	1	06/22/18 10:28	
Benzene	0.29 U	5.0	0.29	1	06/22/18 10:28	
Bromochloromethane	1.4 U	5.0	1.4	1	06/22/18 10:28	
Bromodichloromethane	0.61 U	5.0	0.61	1	06/22/18 10:28	
Bromoform	0.93 U	5.0	0.93	1	06/22/18 10:28	
Bromomethane	1.4 U	5.0	1.4	1	06/22/18 10:28	
Carbon Disulfide	1.3 U	5.0	1.3	1	06/22/18 10:28	
Carbon Tetrachloride	0.92 U	5.0	0.92	1	06/22/18 10:28	
Chlorobenzene	0.29 U	5.0	0.29	1	06/22/18 10:28	
Chloroethane	2.9 U	5.0	2.9	1	06/22/18 10:28	
Chloroform	1.3 U	5.0	1.3	1	06/22/18 10:28	
Chloromethane	0.40 U	5.0	0.40	1	06/22/18 10:28	
Cyclohexane	1.4 U	5.0	1.4	1	06/22/18 10:28	
Dibromochloromethane	0.73 U	5.0	0.73	1	06/22/18 10:28	
Dichlorodifluoromethane (CFC 12)	1.9 U	5.0	1.9	1	06/22/18 10:28	
Dichloromethane	0.57 U	5.0	0.57	1	06/22/18 10:28	
Ethylbenzene	0.23 U	5.0	0.23	1	06/22/18 10:28	
Isopropylbenzene (Cumene)	0.67 U	5.0	0.67	1	06/22/18 10:28	
Methyl Acetate	1.8 U	5.0	1.8	1	06/22/18 10:28	
Methyl tert-Butyl Ether	0.94 U	5.0	0.94	1	06/22/18 10:28	
Methylcyclohexane	1.2 U	5.0	1.2	1	06/22/18 10:28	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806234-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.30 U	5.0	0.30	1	06/22/18 10:28	
Tetrachloroethene (PCE)	0.88 U	5.0	0.88	1	06/22/18 10:28	
Toluene	1.0 U	5.0	1.0	1	06/22/18 10:28	
Trichloroethene (TCE)	1.1 U	5.0	1.1	1	06/22/18 10:28	
Trichlorofluoromethane (CFC 11)	0.66 U	5.0	0.66	1	06/22/18 10:28	
Vinyl Chloride	1.9 U	5.0	1.9	1	06/22/18 10:28	
cis-1,2-Dichloroethene	0.95 U	5.0	0.95	1	06/22/18 10:28	
cis-1,3-Dichloropropene	0.90 U	5.0	0.90	1	06/22/18 10:28	
m,p-Xylenes	1.1 U	10	1.1	1	06/22/18 10:28	
n-Butylbenzene	0.98 U	5.0	0.98	1	06/22/18 10:28	
n-Propylbenzene	0.78 U	5.0	0.78	1	06/22/18 10:28	
o-Xylene	0.48 U	5.0	0.48	1	06/22/18 10:28	
sec-Butylbenzene	0.72 U	5.0	0.72	1	06/22/18 10:28	
tert-Butylbenzene	0.58 U	5.0	0.58	1	06/22/18 10:28	
trans-1,2-Dichloroethene	0.86 U	5.0	0.86	1	06/22/18 10:28	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/22/18 10:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	06/22/18 10:28	
Dibromofluoromethane	91	63 - 138	06/22/18 10:28	
Toluene-d8	94	66 - 138	06/22/18 10:28	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.37	5.2	J

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806438-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	37 U	250	37	50	06/26/18 11:54	
1,1,2,2-Tetrachloroethane	41 U	250	41	50	06/26/18 11:54	
1,1,2-Trichloroethane	37 U	250	37	50	06/26/18 11:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	62 U	250	62	50	06/26/18 11:54	
1,1-Dichloroethane (1,1-DCA)	63 U	250	63	50	06/26/18 11:54	
1,1-Dichloroethene (1,1-DCE)	64 U	250	64	50	06/26/18 11:54	
1,2,3-Trichlorobenzene	31 U	250	31	50	06/26/18 11:54	
1,2,4-Trichlorobenzene	30 U	250	30	50	06/26/18 11:54	
1,2,4-Trimethylbenzene	27 U	250	27	50	06/26/18 11:54	
1,2-Dibromo-3-chloropropane (DBCP)	94 U	250	94	50	06/26/18 11:54	
1,2-Dibromoethane	61 U	250	61	50	06/26/18 11:54	
1,2-Dichlorobenzene	31 U	250	31	50	06/26/18 11:54	
1,2-Dichloroethane	31 U	250	31	50	06/26/18 11:54	
1,2-Dichloropropane	49 U	250	49	50	06/26/18 11:54	
1,3,5-Trimethylbenzene	40 U	250	40	50	06/26/18 11:54	
1,3-Dichlorobenzene	32 U	250	32	50	06/26/18 11:54	
1,4-Dichlorobenzene	28 U	250	28	50	06/26/18 11:54	
1,4-Dioxane	960 U	5000	960	50	06/26/18 11:54	
2-Butanone (MEK)	130 J	250	120	50	06/26/18 11:54	
2-Hexanone	61 U	250	61	50	06/26/18 11:54	
4-Isopropyltoluene	44 U	250	44	50	06/26/18 11:54	
4-Methyl-2-pentanone	49 U	250	49	50	06/26/18 11:54	
Acetone	150 U	250	150	50	06/26/18 11:54	
Benzene	15 U	250	15	50	06/26/18 11:54	
Bromochloromethane	68 U	250	68	50	06/26/18 11:54	
Bromodichloromethane	31 U	250	31	50	06/26/18 11:54	
Bromoform	47 U	250	47	50	06/26/18 11:54	
Bromomethane	69 U	250	69	50	06/26/18 11:54	
Carbon Disulfide	62 U	250	62	50	06/26/18 11:54	
Carbon Tetrachloride	46 U	250	46	50	06/26/18 11:54	
Chlorobenzene	15 U	250	15	50	06/26/18 11:54	
Chloroethane	150 U	250	150	50	06/26/18 11:54	
Chloroform	63 U	250	63	50	06/26/18 11:54	
Chloromethane	20 U	250	20	50	06/26/18 11:54	
Cyclohexane	69 U	250	69	50	06/26/18 11:54	
Dibromochloromethane	37 U	250	37	50	06/26/18 11:54	
Dichlorodifluoromethane (CFC 12)	95 U	250	95	50	06/26/18 11:54	
Dichloromethane	29 U	250	29	50	06/26/18 11:54	
Ethylbenzene	12 U	250	12	50	06/26/18 11:54	
Isopropylbenzene (Cumene)	34 U	250	34	50	06/26/18 11:54	
Methyl Acetate	88 U	250	88	50	06/26/18 11:54	
Methyl tert-Butyl Ether	47 U	250	47	50	06/26/18 11:54	
Methylcyclohexane	60 U	250	60	50	06/26/18 11:54	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806438-04

Units: ug/Kg
Basis: Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	15 U	250	15	50	06/26/18 11:54	
Tetrachloroethene (PCE)	44 U	250	44	50	06/26/18 11:54	
Toluene	50 U	250	50	50	06/26/18 11:54	
Trichloroethene (TCE)	51 U	250	51	50	06/26/18 11:54	
Trichlorofluoromethane (CFC 11)	33 U	250	33	50	06/26/18 11:54	
Vinyl Chloride	92 U	250	92	50	06/26/18 11:54	
cis-1,2-Dichloroethene	48 U	250	48	50	06/26/18 11:54	
cis-1,3-Dichloropropene	45 U	250	45	50	06/26/18 11:54	
m,p-Xylenes	55 U	500	55	50	06/26/18 11:54	
n-Butylbenzene	49 U	250	49	50	06/26/18 11:54	
n-Propylbenzene	39 U	250	39	50	06/26/18 11:54	
o-Xylene	24 U	250	24	50	06/26/18 11:54	
sec-Butylbenzene	36 U	250	36	50	06/26/18 11:54	
tert-Butylbenzene	29 U	250	29	50	06/26/18 11:54	
trans-1,2-Dichloroethene	43 U	250	43	50	06/26/18 11:54	
trans-1,3-Dichloropropene	10 U	250	10	50	06/26/18 11:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	06/26/18 11:54	
Dibromofluoromethane	95	63 - 138	06/26/18 11:54	
Toluene-d8	103	66 - 138	06/26/18 11:54	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	1.57	470	J

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806595-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.25 U	5.0	0.25	1	06/27/18 10:59	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,1,2-Trichloroethane	0.25 U	5.0	0.25	1	06/27/18 10:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,1-Dichloroethene (1,1-DCE)	0.28 U	5.0	0.28	1	06/27/18 10:59	
1,2,3-Trichlorobenzene	0.69 U	5.0	0.69	1	06/27/18 10:59	
1,2,4-Trichlorobenzene	0.50 U	5.0	0.50	1	06/27/18 10:59	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	06/27/18 10:59	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,2-Dichloropropane	0.21 U	5.0	0.21	1	06/27/18 10:59	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
1,4-Dichlorobenzene	0.24 U	5.0	0.24	1	06/27/18 10:59	
1,4-Dioxane	5.1 U	100	5.1	1	06/27/18 10:59	
2-Butanone (MEK)	0.78 U	10	0.78	1	06/27/18 10:59	
2-Hexanone	0.34 U	10	0.34	1	06/27/18 10:59	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	06/27/18 10:59	
4-Methyl-2-pentanone	0.29 U	10	0.29	1	06/27/18 10:59	
Acetone	2.1 U	10	2.1	1	06/27/18 10:59	
Benzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
Bromochloromethane	0.33 U	5.0	0.33	1	06/27/18 10:59	
Bromodichloromethane	0.31 U	5.0	0.31	1	06/27/18 10:59	
Bromoform	0.36 U	5.0	0.36	1	06/27/18 10:59	
Bromomethane	0.70 U	5.0	0.70	1	06/27/18 10:59	
Carbon Disulfide	0.31 U	10	0.31	1	06/27/18 10:59	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	06/27/18 10:59	
Chlorobenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
Chloroethane	0.23 U	5.0	0.23	1	06/27/18 10:59	
Chloroform	0.28 U	5.0	0.28	1	06/27/18 10:59	
Chloromethane	0.28 U	5.0	0.28	1	06/27/18 10:59	
Cyclohexane	0.31 U	10	0.31	1	06/27/18 10:59	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/27/18 10:59	
Dichlorodifluoromethane (CFC 12)	0.44 U	5.0	0.44	1	06/27/18 10:59	
Dichloromethane	0.47 U	5.0	0.47	1	06/27/18 10:59	
Ethylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	06/27/18 10:59	
Methyl Acetate	0.33 U	10	0.33	1	06/27/18 10:59	
Methyl tert-Butyl Ether	0.21 U	5.0	0.21	1	06/27/18 10:59	
Methylcyclohexane	0.35 U	10	0.35	1	06/27/18 10:59	

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806595-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	06/27/18 10:59	
Tetrachloroethene (PCE)	0.28 U	5.0	0.28	1	06/27/18 10:59	
Toluene	0.20 U	5.0	0.20	1	06/27/18 10:59	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	06/27/18 10:59	
Trichlorofluoromethane (CFC 11)	0.27 U	5.0	0.27	1	06/27/18 10:59	
Vinyl Chloride	0.22 U	5.0	0.22	1	06/27/18 10:59	
cis-1,2-Dichloroethene	0.26 U	5.0	0.26	1	06/27/18 10:59	
cis-1,3-Dichloropropene	0.30 U	5.0	0.30	1	06/27/18 10:59	
m,p-Xylenes	0.21 U	5.0	0.21	1	06/27/18 10:59	
n-Butylbenzene	0.23 U	5.0	0.23	1	06/27/18 10:59	
n-Propylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
o-Xylene	0.20 U	5.0	0.20	1	06/27/18 10:59	
sec-Butylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
tert-Butylbenzene	0.20 U	5.0	0.20	1	06/27/18 10:59	
trans-1,2-Dichloroethene	0.26 U	5.0	0.26	1	06/27/18 10:59	
trans-1,3-Dichloropropene	0.30 U	5.0	0.30	1	06/27/18 10:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/27/18 10:59	
Dibromofluoromethane	96	89 - 119	06/27/18 10:59	
Toluene-d8	98	87 - 121	06/27/18 10:59	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/21/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806155-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.7	20.0	83	68-123
1,1,2,2-Tetrachloroethane	8260C	20.6	20.0	103	78-121
1,1,2-Trichloroethane	8260C	19.0	20.0	95	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	16.7	20.0	83	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.6	20.0	93	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	17.4	20.0	87	65-115
1,2,3-Trichlorobenzene	8260C	19.3	20.0	96	60-128
1,2,4-Trichlorobenzene	8260C	18.9	20.0	94	62-130
1,2,4-Trimethylbenzene	8260C	18.7	20.0	93	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	22.1	20.0	111	54-135
1,2-Dibromoethane	8260C	19.5	20.0	97	77-117
1,2-Dichlorobenzene	8260C	18.7	20.0	94	75-116
1,2-Dichloroethane	8260C	19.3	20.0	96	74-116
1,2-Dichloropropane	8260C	19.1	20.0	95	79-112
1,3,5-Trimethylbenzene	8260C	18.1	20.0	90	66-122
1,3-Dichlorobenzene	8260C	18.5	20.0	93	72-118
1,4-Dichlorobenzene	8260C	18.0	20.0	90	72-117
1,4-Dioxane	8260C	364	400	91	59-147
2-Butanone (MEK)	8260C	19.3	20.0	96	67-129
2-Hexanone	8260C	21.1	20.0	105	68-118
4-Isopropyltoluene	8260C	17.3	20.0	86	58-128
4-Methyl-2-pentanone	8260C	20.0	20.0	100	64-123
Acetone	8260C	21.5	20.0	108	32-154
Benzene	8260C	18.5	20.0	93	77-114
Bromochloromethane	8260C	18.4	20.0	92	78-117
Bromodichloromethane	8260C	19.2	20.0	96	72-118
Bromoform	8260C	20.4	20.0	102	55-134
Bromomethane	8260C	17.4	20.0	87	10-150
Carbon Disulfide	8260C	17.8	20.0	89	44-139
Carbon Tetrachloride	8260C	15.7	20.0	79	51-123
Chlorobenzene	8260C	17.8	20.0	89	79-115
Chloroethane	8260C	14.0	20.0	70	10-140
Chloroform	8260C	19.0	20.0	95	76-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/21/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806155-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.1	20.0	86	10-131
Cyclohexane	8260C	16.6	20.0	83	67-122
Dibromochloromethane	8260C	19.0	20.0	95	68-121
Dichlorodifluoromethane (CFC 12)	8260C	17.5	20.0	87	51-144
Dichloromethane	8260C	19.0	20.0	95	72-118
Ethylbenzene	8260C	17.6	20.0	88	64-118
Isopropylbenzene (Cumene)	8260C	16.3	20.0	81	60-123
Methyl Acetate	8260C	17.5	20.0	88	31-122
Methyl tert-Butyl Ether	8260C	18.8	20.0	94	76-118
Methylcyclohexane	8260C	17.2	20.0	86	70-124
Styrene	8260C	18.2	20.0	91	74-117
Tetrachloroethene (PCE)	8260C	16.6	20.0	83	58-124
Toluene	8260C	17.9	20.0	89	72-116
Trichloroethene (TCE)	8260C	18.0	20.0	90	69-118
Trichlorofluoromethane (CFC 11)	8260C	16.9	20.0	85	52-127
Vinyl Chloride	8260C	17.0	20.0	85	59-153
cis-1,2-Dichloroethene	8260C	18.4	20.0	92	79-113
cis-1,3-Dichloropropene	8260C	19.7	20.0	98	66-117
m,p-Xylenes	8260C	34.3	40.0	86	68-118
n-Butylbenzene	8260C	17.7	20.0	89	54-131
n-Propylbenzene	8260C	17.9	20.0	89	59-126
o-Xylene	8260C	17.9	20.0	90	71-116
sec-Butylbenzene	8260C	17.1	20.0	86	54-128
tert-Butylbenzene	8260C	17.0	20.0	85	58-123
trans-1,2-Dichloroethene	8260C	18.0	20.0	90	73-114
trans-1,3-Dichloropropene	8260C	21.1	20.0	106	57-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/22/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806234-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	16.3	20.0	82	68-123
1,1,2,2-Tetrachloroethane	8260C	20.5	20.0	102	78-121
1,1,2-Trichloroethane	8260C	17.7	20.0	88	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	15.0	20.0	75	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.2	20.0	91	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	16.9	20.0	85	65-115
1,2,3-Trichlorobenzene	8260C	17.9	20.0	89	60-128
1,2,4-Trichlorobenzene	8260C	17.4	20.0	87	62-130
1,2,4-Trimethylbenzene	8260C	17.9	20.0	90	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	21.6	20.0	108	54-135
1,2-Dibromoethane	8260C	18.5	20.0	93	77-117
1,2-Dichlorobenzene	8260C	18.1	20.0	91	75-116
1,2-Dichloroethane	8260C	18.0	20.0	90	74-116
1,2-Dichloropropane	8260C	18.1	20.0	90	79-112
1,3,5-Trimethylbenzene	8260C	17.3	20.0	86	66-122
1,3-Dichlorobenzene	8260C	18.1	20.0	91	72-118
1,4-Dichlorobenzene	8260C	17.4	20.0	87	72-117
1,4-Dioxane	8260C	377	400	94	59-147
2-Butanone (MEK)	8260C	19.9	20.0	99	67-129
2-Hexanone	8260C	20.5	20.0	102	68-118
4-Isopropyltoluene	8260C	15.9	20.0	80	58-128
4-Methyl-2-pentanone	8260C	19.5	20.0	98	64-123
Acetone	8260C	24.6	20.0	123	32-154
Benzene	8260C	17.5	20.0	88	77-114
Bromochloromethane	8260C	17.7	20.0	88	78-117
Bromodichloromethane	8260C	17.9	20.0	89	72-118
Bromoform	8260C	19.8	20.0	99	55-134
Bromomethane	8260C	18.1	20.0	90	10-150
Carbon Disulfide	8260C	16.3	20.0	81	44-139
Carbon Tetrachloride	8260C	14.6	20.0	73	51-123
Chlorobenzene	8260C	17.2	20.0	86	79-115
Chloroethane	8260C	13.8	20.0	69	10-140
Chloroform	8260C	18.6	20.0	93	76-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/22/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806234-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	16.2	20.0	81	10-131
Cyclohexane	8260C	19.7	20.0	98	67-122
Dibromochloromethane	8260C	18.4	20.0	92	68-121
Dichlorodifluoromethane (CFC 12)	8260C	16.1	20.0	80	51-144
Dichloromethane	8260C	18.2	20.0	91	72-118
Ethylbenzene	8260C	16.7	20.0	84	64-118
Isopropylbenzene (Cumene)	8260C	15.3	20.0	77	60-123
Methyl Acetate	8260C	17.5	20.0	87	31-122
Methyl tert-Butyl Ether	8260C	17.8	20.0	89	76-118
Methylcyclohexane	8260C	20.1	20.0	100	70-124
Styrene	8260C	17.2	20.0	86	74-117
Tetrachloroethene (PCE)	8260C	15.5	20.0	78	58-124
Toluene	8260C	17.0	20.0	85	72-116
Trichloroethene (TCE)	8260C	16.8	20.0	84	69-118
Trichlorofluoromethane (CFC 11)	8260C	15.5	20.0	78	52-127
Vinyl Chloride	8260C	16.4	20.0	82	59-153
cis-1,2-Dichloroethene	8260C	17.6	20.0	88	79-113
cis-1,3-Dichloropropene	8260C	18.8	20.0	94	66-117
m,p-Xylenes	8260C	33.2	40.0	83	68-118
n-Butylbenzene	8260C	15.9	20.0	80	54-131
n-Propylbenzene	8260C	16.9	20.0	85	59-126
o-Xylene	8260C	17.1	20.0	85	71-116
sec-Butylbenzene	8260C	15.5	20.0	77	54-128
tert-Butylbenzene	8260C	15.8	20.0	79	58-123
trans-1,2-Dichloroethene	8260C	17.1	20.0	86	73-114
trans-1,3-Dichloropropene	8260C	20.4	20.0	102	57-135

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806438-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.8	20.0	99	68-123
1,1,2,2-Tetrachloroethane	8260C	19.3	20.0	97	78-121
1,1,2-Trichloroethane	8260C	20.1	20.0	100	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.0	20.0	100	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	20.6	20.0	103	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	19.8	20.0	99	65-115
1,2,3-Trichlorobenzene	8260C	19.9	20.0	100	60-128
1,2,4-Trichlorobenzene	8260C	20.0	20.0	100	62-130
1,2,4-Trimethylbenzene	8260C	20.6	20.0	103	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	21.7	20.0	109	54-135
1,2-Dibromoethane	8260C	22.4	20.0	112	77-117
1,2-Dichlorobenzene	8260C	19.9	20.0	100	75-116
1,2-Dichloroethane	8260C	20.4	20.0	102	74-116
1,2-Dichloropropane	8260C	19.5	20.0	98	79-112
1,3,5-Trimethylbenzene	8260C	20.7	20.0	103	66-122
1,3-Dichlorobenzene	8260C	19.5	20.0	97	72-118
1,4-Dichlorobenzene	8260C	18.9	20.0	95	72-117
1,4-Dioxane	8260C	395	400	99	59-147
2-Butanone (MEK)	8260C	24.4	20.0	122	67-129
2-Hexanone	8260C	24.4	20.0	122 *	68-118
4-Isopropyltoluene	8260C	20.9	20.0	105	58-128
4-Methyl-2-pentanone	8260C	24.0	20.0	120	64-123
Acetone	8260C	26.5	20.0	133	32-154
Benzene	8260C	18.6	20.0	93	77-114
Bromochloromethane	8260C	20.8	20.0	104	78-117
Bromodichloromethane	8260C	18.8	20.0	94	72-118
Bromoform	8260C	19.5	20.0	98	55-134
Bromomethane	8260C	14.3	20.0	72	10-150
Carbon Disulfide	8260C	17.7	20.0	88	44-139
Carbon Tetrachloride	8260C	18.0	20.0	90	51-123
Chlorobenzene	8260C	19.8	20.0	99	79-115
Chloroethane	8260C	10.6	20.0	53	10-140
Chloroform	8260C	20.2	20.0	101	76-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Lab Control Sample
RQ1806438-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	16.8	20.0	84	10-131
Cyclohexane	8260C	20.1	20.0	101	67-122
Dibromochloromethane	8260C	20.8	20.0	104	68-121
Dichlorodifluoromethane (CFC 12)	8260C	15.1	20.0	75	51-144
Dichloromethane	8260C	19.8	20.0	99	72-118
Ethylbenzene	8260C	20.7	20.0	103	64-118
Isopropylbenzene (Cumene)	8260C	20.2	20.0	101	60-123
Methyl Acetate	8260C	27.2	20.0	136 *	31-122
Methyl tert-Butyl Ether	8260C	20.6	20.0	103	76-118
Methylcyclohexane	8260C	18.0	20.0	90	70-124
Styrene	8260C	20.8	20.0	104	74-117
Tetrachloroethene (PCE)	8260C	19.5	20.0	97	58-124
Toluene	8260C	19.7	20.0	99	72-116
Trichloroethene (TCE)	8260C	18.9	20.0	95	69-118
Trichlorofluoromethane (CFC 11)	8260C	22.2	20.0	111	52-127
Vinyl Chloride	8260C	14.7	20.0	73	59-153
cis-1,2-Dichloroethene	8260C	19.6	20.0	98	79-113
cis-1,3-Dichloropropene	8260C	19.4	20.0	97	66-117
m,p-Xylenes	8260C	40.5	40.0	101	68-118
n-Butylbenzene	8260C	21.2	20.0	106	54-131
n-Propylbenzene	8260C	19.9	20.0	100	59-126
o-Xylene	8260C	20.0	20.0	100	71-116
sec-Butylbenzene	8260C	20.8	20.0	104	54-128
tert-Butylbenzene	8260C	20.6	20.0	103	58-123
trans-1,2-Dichloroethene	8260C	20.5	20.0	103	73-114
trans-1,3-Dichloropropene	8260C	20.7	20.0	104	57-135

ALS Group USA, Corp.
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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Analyzed: 06/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806595-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	21.2	20.0	106	75-125
1,1,2,2-Tetrachloroethane	8260C	18.1	20.0	91	78-126
1,1,2-Trichloroethane	8260C	19.9	20.0	99	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.6	20.0	98	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.7	20.0	98	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	18.1	20.0	90	71-118
1,2,3-Trichlorobenzene	8260C	18.6	20.0	93	67-136
1,2,4-Trichlorobenzene	8260C	19.3	20.0	96	75-132
1,2,4-Trimethylbenzene	8260C	20.1	20.0	100	81-126
1,2-Dibromo-3-chloropropane (DBCP)	8260C	23.0	20.0	115	55-136
1,2-Dibromoethane	8260C	20.6	20.0	103	82-127
1,2-Dichlorobenzene	8260C	18.7	20.0	93	80-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
1,2-Dichloropropane	8260C	18.2	20.0	91	80-119
1,3,5-Trimethylbenzene	8260C	20.3	20.0	102	81-128
1,3-Dichlorobenzene	8260C	19.0	20.0	95	83-121
1,4-Dichlorobenzene	8260C	19.0	20.0	95	79-119
1,4-Dioxane	8260C	342	400	85	44-154
2-Butanone (MEK)	8260C	22.2	20.0	111	61-137
2-Hexanone	8260C	20.7	20.0	104	63-124
4-Isopropyltoluene	8260C	20.4	20.0	102	78-133
4-Methyl-2-pentanone	8260C	22.0	20.0	110	66-124
Acetone	8260C	19.9	20.0	99	40-161
Benzene	8260C	17.6	20.0	88	79-119
Bromochloromethane	8260C	19.6	20.0	98	81-126
Bromodichloromethane	8260C	19.7	20.0	98	81-123
Bromoform	8260C	20.8	20.0	104	65-146
Bromomethane	8260C	15.8	20.0	79	42-166
Carbon Disulfide	8260C	19.2	20.0	96	66-128
Carbon Tetrachloride	8260C	21.9	20.0	109	70-127
Chlorobenzene	8260C	19.0	20.0	95	80-121
Chloroethane	8260C	14.6	20.0	73	62-131
Chloroform	8260C	19.0	20.0	95	79-120

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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Water

Service Request: R1805749
Date Analyzed: 06/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806595-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.1	20.0	85	65-135
Cyclohexane	8260C	21.0	20.0	105	69-120
Dibromochloromethane	8260C	21.7	20.0	109	72-128
Dichlorodifluoromethane (CFC 12)	8260C	16.6	20.0	83	59-155
Dichloromethane	8260C	18.8	20.0	94	73-122
Ethylbenzene	8260C	19.9	20.0	99	76-120
Isopropylbenzene (Cumene)	8260C	19.2	20.0	96	77-128
Methyl Acetate	8260C	19.7	20.0	98	40-112
Methyl tert-Butyl Ether	8260C	19.0	20.0	95	75-118
Methylcyclohexane	8260C	18.6	20.0	93	51-129
Styrene	8260C	19.9	20.0	99	80-124
Tetrachloroethene (PCE)	8260C	18.5	20.0	93	72-125
Toluene	8260C	19.4	20.0	97	79-119
Trichloroethene (TCE)	8260C	19.4	20.0	97	74-122
Trichlorofluoromethane (CFC 11)	8260C	18.8	20.0	94	71-136
Vinyl Chloride	8260C	15.9	20.0	79	74-159
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	77-122
m,p-Xylenes	8260C	39.3	40.0	98	80-126
n-Butylbenzene	8260C	20.7	20.0	103	78-133
n-Propylbenzene	8260C	19.8	20.0	99	78-131
o-Xylene	8260C	19.1	20.0	95	79-123
sec-Butylbenzene	8260C	20.4	20.0	102	75-129
tert-Butylbenzene	8260C	20.1	20.0	101	76-126
trans-1,2-Dichloroethene	8260C	18.7	20.0	93	73-118
trans-1,3-Dichloropropene	8260C	22.3	20.0	112	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		10-109	10-102	10-88
TB-204 8-9	R1805749-001	72	52	50
TB-202 12	R1805749-002	63	50	46
TB-207 10-11	R1805749-003	53	38	35
TB-206A 10-11	R1805749-004	47	34	32
TB-208 9	R1805749-005	68	44	39
Method Blank	RQ1806180-01	39	33	30
Lab Control Sample	RQ1806180-02	60	43	32
Duplicate Lab Control Sample	RQ1806180-03	75	55	39

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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		10-95	10-145	10-106
TB-204 8-9	R1805749-001	53	56	61
TB-202 12	R1805749-002	48	50	51
TB-207 10-11	R1805749-003	38	39	50
TB-206A 10-11	R1805749-004	35	34	47
TB-208 9	R1805749-005	41	47	55
Method Blank	RQ1806180-01	33	31	43
Lab Control Sample	RQ1806180-02	37	38	54
Duplicate Lab Control Sample	RQ1806180-03	44	47	63

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806180-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	96 U	330	96	1	06/22/18 17:12	6/22/18	
2,3,4,6-Tetrachlorophenol	82 U	330	82	1	06/22/18 17:12	6/22/18	
2,4,5-Trichlorophenol	82 U	330	82	1	06/22/18 17:12	6/22/18	
2,4,6-Trichlorophenol	86 U	330	86	1	06/22/18 17:12	6/22/18	
2,4-Dichlorophenol	68 U	330	68	1	06/22/18 17:12	6/22/18	
2,4-Dimethylphenol	63 U	330	63	1	06/22/18 17:12	6/22/18	
2,4-Dinitrophenol	62 U	1700	62	1	06/22/18 17:12	6/22/18	
2,4-Dinitrotoluene	86 U	330	86	1	06/22/18 17:12	6/22/18	
2,6-Dinitrotoluene	120 U	330	120	1	06/22/18 17:12	6/22/18	
2-Chloronaphthalene	73 U	330	73	1	06/22/18 17:12	6/22/18	
2-Chlorophenol	80 U	330	80	1	06/22/18 17:12	6/22/18	
2-Methylnaphthalene	74 U	330	74	1	06/22/18 17:12	6/22/18	
2-Methylphenol	80 U	330	80	1	06/22/18 17:12	6/22/18	
2-Nitroaniline	95 U	1700	95	1	06/22/18 17:12	6/22/18	
2-Nitrophenol	75 U	330	75	1	06/22/18 17:12	6/22/18	
3,3'-Dichlorobenzidine	110 U	330	110	1	06/22/18 17:12	6/22/18	
3- and 4-Methylphenol Coelution	83 U	330	83	1	06/22/18 17:12	6/22/18	
3-Nitroaniline	72 U	1700	72	1	06/22/18 17:12	6/22/18	
4,6-Dinitro-2-methylphenol	72 U	1700	72	1	06/22/18 17:12	6/22/18	
4-Bromophenyl Phenyl Ether	94 U	330	94	1	06/22/18 17:12	6/22/18	
4-Chloro-3-methylphenol	75 U	330	75	1	06/22/18 17:12	6/22/18	
4-Chloroaniline	40 U	330	40	1	06/22/18 17:12	6/22/18	
4-Chlorophenyl Phenyl Ether	79 U	330	79	1	06/22/18 17:12	6/22/18	
4-Nitroaniline	73 U	1700	73	1	06/22/18 17:12	6/22/18	
4-Nitrophenol	200 U	1700	200	1	06/22/18 17:12	6/22/18	
Acenaphthene	73 U	330	73	1	06/22/18 17:12	6/22/18	
Acenaphthylene	68 U	330	68	1	06/22/18 17:12	6/22/18	
Acetophenone	77 U	330	77	1	06/22/18 17:12	6/22/18	
Anthracene	64 U	330	64	1	06/22/18 17:12	6/22/18	
Atrazine	89 U	330	89	1	06/22/18 17:12	6/22/18	
Benz(a)anthracene	58 U	330	58	1	06/22/18 17:12	6/22/18	
Benzaldehyde	79 U	1700	79	1	06/22/18 17:12	6/22/18	
Benzo(a)pyrene	67 U	330	67	1	06/22/18 17:12	6/22/18	
Benzo(b)fluoranthene	60 U	330	60	1	06/22/18 17:12	6/22/18	
Benzo(g,h,i)perylene	75 U	330	75	1	06/22/18 17:12	6/22/18	
Benzo(k)fluoranthene	74 U	330	74	1	06/22/18 17:12	6/22/18	
Biphenyl	77 U	330	77	1	06/22/18 17:12	6/22/18	
2,2'-Oxybis(1-chloropropane)	81 U	330	81	1	06/22/18 17:12	6/22/18	
Bis(2-chloroethoxy)methane	76 U	330	76	1	06/22/18 17:12	6/22/18	
Bis(2-chloroethyl) Ether	60 U	330	60	1	06/22/18 17:12	6/22/18	
Bis(2-ethylhexyl) Phthalate	460 U	500	460	1	06/22/18 17:12	6/22/18	
Butyl Benzyl Phthalate	63 U	330	63	1	06/22/18 17:12	6/22/18	
Caprolactam	74 U	330	74	1	06/22/18 17:12	6/22/18	

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Analytical Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806180-01

Units: ug/Kg
Basis: Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	82 U	330	82	1	06/22/18 17:12	6/22/18	
Chrysene	65 U	330	65	1	06/22/18 17:12	6/22/18	
Di-n-butyl Phthalate	110 U	330	110	1	06/22/18 17:12	6/22/18	
Di-n-octyl Phthalate	99 U	330	99	1	06/22/18 17:12	6/22/18	
Dibenz(a,h)anthracene	60 U	330	60	1	06/22/18 17:12	6/22/18	
Dibenzofuran	68 U	330	68	1	06/22/18 17:12	6/22/18	
Diethyl Phthalate	180 U	330	180	1	06/22/18 17:12	6/22/18	
Dimethyl Phthalate	91 U	330	91	1	06/22/18 17:12	6/22/18	
Fluoranthene	78 U	330	78	1	06/22/18 17:12	6/22/18	
Fluorene	83 U	330	83	1	06/22/18 17:12	6/22/18	
Hexachlorobenzene	77 U	330	77	1	06/22/18 17:12	6/22/18	
Hexachlorobutadiene	56 U	330	56	1	06/22/18 17:12	6/22/18	
Hexachlorocyclopentadiene	55 U	330	55	1	06/22/18 17:12	6/22/18	
Hexachloroethane	58 U	330	58	1	06/22/18 17:12	6/22/18	
Indeno(1,2,3-cd)pyrene	73 U	330	73	1	06/22/18 17:12	6/22/18	
Isophorone	71 U	330	71	1	06/22/18 17:12	6/22/18	
N-Nitrosodi-n-propylamine	60 U	330	60	1	06/22/18 17:12	6/22/18	
N-Nitrosodiphenylamine	150 U	330	150	1	06/22/18 17:12	6/22/18	
Naphthalene	68 U	330	68	1	06/22/18 17:12	6/22/18	
Nitrobenzene	68 U	330	68	1	06/22/18 17:12	6/22/18	
Pentachlorophenol (PCP)	110 U	1700	110	1	06/22/18 17:12	6/22/18	
Phenanthrene	69 U	330	69	1	06/22/18 17:12	6/22/18	
Phenol	72 U	330	72	1	06/22/18 17:12	6/22/18	
Pyrene	65 U	330	65	1	06/22/18 17:12	6/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	39	10 - 109	06/22/18 17:12	
2-Fluorobiphenyl	33	10 - 102	06/22/18 17:12	
2-Fluorophenol	30	10 - 88	06/22/18 17:12	
Nitrobenzene-d5	33	10 - 95	06/22/18 17:12	
Phenol-d6	31	10 - 145	06/22/18 17:12	
Terphenyl-d14	43	10 - 106	06/22/18 17:12	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/22/18

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ1806180-02				Duplicate Lab Control Sample RQ1806180-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	1310	3420	38	1710	3420	50	10-115	27	30
2,3,4,6-Tetrachlorophenol	8270D	1800	3330	54	2300	3330	69	29-100	24	30
2,4,5-Trichlorophenol	8270D	1800	3330	54	2240	3330	67	29-97	21	30
2,4,6-Trichlorophenol	8270D	1700	3330	51	2150	3330	64	26-97	23	30
2,4-Dichlorophenol	8270D	1420	3330	42	1720	3330	52	25-90	21	30
2,4-Dimethylphenol	8270D	1540	3330	46	1870	3330	56	26-89	20	30
2,4-Dinitrophenol	8270D	1050 J	3330	32	1320 J	3330	40	10-128	22	30
2,4-Dinitrotoluene	8270D	2030	3330	61	2540	3330	76	30-111	22	30
2,6-Dinitrotoluene	8270D	1930	3330	58	2450	3330	74	28-105	24	30
2-Chloronaphthalene	8270D	1480	3330	44	1880	3330	57	21-88	26	30
2-Chlorophenol	8270D	1100	3330	33	1340	3330	40	18-87	19	30
2-Methylnaphthalene	8270D	1270	3330	38	1540	3330	46	21-83	19	30
2-Methylphenol	8270D	1240	3330	37	1550	3330	46	22-86	22	30
2-Nitroaniline	8270D	2330	3330	70	3000	3330	90	27-105	25	30
2-Nitrophenol	8270D	1230	3330	37	1480	3330	44	20-88	17	30
3- and 4-Methylphenol Coelution	8270D	1240	3330	37	1510	3330	45	27-92	20	30
3-Nitroaniline	8270D	1740	3330	52	2230	3330	67	27-98	25	30
4,6-Dinitro-2-methylphenol	8270D	1490 J	3330	45	1880	3330	56	11-96	22	30
4-Bromophenyl Phenyl Ether	8270D	1770	3330	53	2220	3330	67	25-96	23	30
4-Chloro-3-methylphenol	8270D	1750	3330	53	2130	3330	64	29-92	19	30
4-Chloroaniline	8270D	1320	3330	40	1650	3330	50	21-72	22	30
4-Chlorophenyl Phenyl Ether	8270D	1830	3330	55	2310	3330	69	25-92	23	30
4-Nitroaniline	8270D	1840	3330	55	2260	3330	68	27-102	21	30
4-Nitrophenol	8270D	2590	3330	78	2990	3330	90	10-130	14	30
Acenaphthene	8270D	1580	3330	47	2020	3330	61	25-92	26	30
Acenaphthylene	8270D	1680	3330	50	2150	3330	64	27-93	25	30
Acetophenone	8270D	2110	6670	32	2660	6670	40	23-87	22	30
Anthracene	8270D	1770	3330	53	2180	3330	65	32-106	20	30
Benz(a)anthracene	8270D	1860	3330	56	2160	3330	65	33-109	15	30
Benzo(a)pyrene	8270D	1950	3330	59	2290	3330	69	34-115	16	30
Benzo(b)fluoranthene	8270D	1770	3330	53	2060	3330	62	31-107	16	30
Benzo(g,h,i)perylene	8270D	1980	3330	60	2280	3330	68	30-127	13	30
Benzo(k)fluoranthene	8270D	1810	3330	54	2160	3330	65	34-111	18	30

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QA/QC Report

Client: Day Environmental, Incorporated
Project: Manche/5474S-18
Sample Matrix: Soil

Service Request: R1805749
Date Analyzed: 06/22/18

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:Dry

Analyte Name	Lab Control Sample RQ1806180-02				Duplicate Lab Control Sample RQ1806180-03					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Biphenyl	8270D	1490	3330	45	1880	3330	56	26-88	22	30
2,2'-Oxybis(1-chloropropane)	8270D	1590	3330	48	2000	3330	60	10-82	22	30
Bis(2-chloroethoxy)methane	8270D	1410	3330	42	1700	3330	51	17-85	19	30
Bis(2-chloroethyl) Ether	8270D	1100	3330	33	1390	3330	42	10-79	24	30
Bis(2-ethylhexyl) Phthalate	8270D	1820	3330	55	2090	3330	63	31-115	14	30
Butyl Benzyl Phthalate	8270D	1750	3330	53	2050	3330	61	31-115	14	30
Caprolactam	8270D	1730	3330	52	2160	3330	65	28-99	22	30
Carbazole	8270D	1870	3330	56	2220	3330	66	23-129	16	30
Chrysene	8270D	1910	3330	57	2210	3330	66	34-108	15	30
Di-n-butyl Phthalate	8270D	1860	3330	56	2200	3330	66	33-114	16	30
Di-n-octyl Phthalate	8270D	1720	3330	52	2060	3330	62	32-116	18	30
Dibenz(a,h)anthracene	8270D	1940	3330	58	2280	3330	68	23-122	16	30
Dibenzofuran	8270D	1650	3330	49	2080	3330	63	27-94	25	30
Diethyl Phthalate	8270D	1710	3330	51	2180	3330	65	26-101	24	30
Dimethyl Phthalate	8270D	1620	3330	49	2010	3330	60	27-98	20	30
Fluoranthene	8270D	1920	3330	58	2290	3330	69	34-111	17	30
Fluorene	8270D	1760	3330	53	2200	3330	66	27-95	22	30
Hexachlorobenzene	8270D	1810	3330	54	2160	3330	65	30-104	18	30
Hexachlorobutadiene	8270D	1070	3330	32	1290	3330	39	10-142	20	30
Hexachlorocyclopentadiene	8270D	1250	3330	37	1720	3330	52	10-133	34*	30
Hexachloroethane	8270D	840	3330	25	1160	3330	35	10-129	33*	30
Indeno(1,2,3-cd)pyrene	8270D	1940	3330	58	2300	3330	69	33-121	17	30
Isophorone	8270D	1470	3330	44	1860	3330	56	21-79	24	30
N-Nitrosodi-n-propylamine	8270D	1270	3330	38	1530	3330	46	15-78	19	30
N-Nitrosodiphenylamine	8270D	1790	3330	54	2190	3330	66	29-108	20	30
Naphthalene	8270D	1100	3330	33	1350	3330	40	18-81	19	30
Nitrobenzene	8270D	1230	3330	37	1460	3330	44	14-80	17	30
Pentachlorophenol (PCP)	8270D	1810	3330	54	2140	3330	64	13-117	17	30
Phenanthrene	8270D	1690	3330	51	2090	3330	63	33-103	21	30
Phenol	8270D	1350	3330	41	1620	3330	49	10-144	18	30
Pyrene	8270D	1850	3330	55	2110	3330	63	33-111	14	30



July 19, 2018

Service Request No:R1806184

Mr. Charles Hampton
Day Environmental, Incorporated
1563 Lyell Avenue
Rochester, NY 14606

Laboratory Results for: 147 State Street, Manchester

Dear Mr.Hampton,

Enclosed are the results of the sample(s) submitted to our laboratory July 02, 2018
For your reference, these analyses have been assigned our service request number **R1806184**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester
Sample Matrix: Water

Service Request: R1806184
Date Received: 07/02/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 07/02/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The sample was received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semivolatiles by GC/MS:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Randy Kullen".

Approved by _____

Date 07/19/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-A		Lab ID: R1806184-001				
Analyte	Results	Flag	MDL	MRL	Units	Method
1,2,4-Trimethylbenzene	2400		5.0	130	ug/L	8260C
1,3,5-Trimethylbenzene	670		5.0	130	ug/L	8260C
2-Butanone (MEK)	30	J	20	250	ug/L	8260C
4-Isopropyltoluene	14	J	5.0	130	ug/L	8260C
Acetone	72	J	53	250	ug/L	8260C
Benzene	35	J	5.0	130	ug/L	8260C
Cyclohexane	280		7.8	250	ug/L	8260C
Ethylbenzene	1600		5.0	130	ug/L	8260C
Isopropylbenzene (Cumene)	99	J	5.0	130	ug/L	8260C
Methylcyclohexane	220	J	8.8	250	ug/L	8260C
Toluene	490		5.0	130	ug/L	8260C
m,p-Xylenes	6300		5.3	130	ug/L	8260C
n-Butylbenzene	29	J	5.8	130	ug/L	8260C
n-Propylbenzene	270		5.0	130	ug/L	8260C
o-Xylene	1200		5.0	130	ug/L	8260C
sec-Butylbenzene	16	J	5.0	130	ug/L	8260C
2-Methylnaphthalene	230		13	47	ug/L	8270D
Naphthalene	390		11	47	ug/L	8270D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18

Service Request:R1806184

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1806184-001	MW-A	7/2/2018	1135



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 52190

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE ____ OF ____

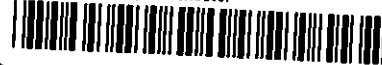
Project Name 147 State Street, Manchester		Project Number 54745-18		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager C. Hampton		Report OC		PRESERVATIVE																					
Company/Address Day Environmental, Inc. 1563 Lyell Avenue Rochester NY 14606		Email Champton@daymail.net		NUMBER OF CONTAINERS GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808 GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808																					
Sample's Signature [Signature]		Sampler's Printed Name Charles Hampton		GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808 GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808																					
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NW-A				7-2-18		11:35		GW		GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808 GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808															
SPECIAL INSTRUCTIONS/COMMENTS Metals										GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808 GC/MS VOCs TCL + CP 51 GC/MS SVOCs TCL + CP 51 GC/MS PCBs TCL + CP 51 GC/MS PAHs TCL + CP 51 GC/MS Pesticides 8021 + 801/802 GC/MS PCBs 8081 + 808 GC/MS PCBs 8082 + 808 GC/MS PCBs 8083 + 808 GC/MS PCBs 8084 + 808 GC/MS PCBs 8085 + 808 GC/MS PCBs 8086 + 808 GC/MS PCBs 8087 + 808 GC/MS PCBs 8088 + 808 GC/MS PCBs 8089 + 808 GC/MS PCBs 8090 + 808 GC/MS PCBs 8091 + 808 GC/MS PCBs 8092 + 808 GC/MS PCBs 8093 + 808 GC/MS PCBs 8094 + 808 GC/MS PCBs 8095 + 808 GC/MS PCBs 8096 + 808 GC/MS PCBs 8097 + 808 GC/MS PCBs 8098 + 808 GC/MS PCBs 8099 + 808 GC/MS PCBs 8100 + 808															
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day ☒ Standard (10 business days-No Surcharge) REQUESTED REPORT DATE		REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) ☒ III. Results + OC and Calibration Summaries ASP CAT B IV. Data Validation Report with Raw Data N/SD/EL EQUUS Edata ☒ Yes ☐ No		INVOICE INFORMATION PO # BILL TO: DAY																					
STATE WHERE SAMPLES WERE COLLECTED NY																									
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY																					
Signature [Signature]		Signature [Signature]		Signature																					
Printed Name Charles Hampton		Printed Name Gregory D. Esmerian		Printed Name																					
Firm Day Environmental		Firm ALS		Firm																					
Date/Time 7-2-18 @ 13:30		Date/Time 7-2-18 13:30		Date/Time																					



Cooler Receipt and Preservation Check Form

R1806184

5

Day Environmental, Incorporated
147 State Street, ManchesterProject/Client Day Engineering

Folder Number _____

Cooler received on 7-2-18by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒ N ☐
2	Custody papers properly completed (ink, signed)?	Y ☒ N ☐
3	Did all bottles arrive in good condition (unbroken)?	Y ☒ N ☐
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y ☒ N ☐

5a	Perchlorate samples have required headspace?	Y ☐ N ☒ NA ☐
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y ☒ N ☐ NA ☐
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 7-2-18 Time: 13:36 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>12.8</u>						
Correction Factor (°C)	<u>10.3</u>						
Corrected Temp (°C)	<u>13.1</u>						
Temp from: Type of bottle	<u>11.185 Amber</u>						
Within 0-6°C?	☒ Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N
If <0°C, were samples frozen?	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N	Y ☐ N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by KE on 7-2-18 at 13:40
5035 samples placed in storage location: _____ by _____ on _____ at _____Cooler Breakdown/Preservation Check**: Date: 7/3/18 Time: 11:45 by: KE

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate								
		HCl	**	**	<u>4/117090</u>					

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: P-039-004, 050718-12K

Explain all Discrepancies/ Other Comments:

* Trip Blank: All 3 Vials

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: KE

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (100% Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18

Service Request: R1806184

Sample Name: MW-A
Lab Code: R1806184-001
Sample Matrix: Water

Date Collected: 07/2/18
Date Received: 07/2/18

Analysis Method

8260C
8270D

Extracted/Digested By

MPEDRO

Analyzed By

DLIPANI
JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Collected: 07/02/18 11:35
Date Received: 07/02/18 13:30

Sample Name: MW-A
Lab Code: R1806184-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.3 U	130	6.3	25	07/09/18 18:39	
1,1,2,2-Tetrachloroethane	5.0 U	130	5.0	25	07/09/18 18:39	
1,1,2-Trichloroethane	6.3 U	130	6.3	25	07/09/18 18:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	130	5.0	25	07/09/18 18:39	
1,1-Dichloroethane (1,1-DCA)	5.0 U	130	5.0	25	07/09/18 18:39	
1,1-Dichloroethene (1,1-DCE)	7.0 U	130	7.0	25	07/09/18 18:39	
1,2,3-Trichlorobenzene	18 U	130	18	25	07/09/18 18:39	
1,2,4-Trichlorobenzene	13 U	130	13	25	07/09/18 18:39	
1,2,4-Trimethylbenzene	2400	130	5.0	25	07/09/18 18:39	
1,2-Dibromo-3-chloropropane (DBCP)	12 U	130	12	25	07/09/18 18:39	
1,2-Dibromoethane	5.0 U	130	5.0	25	07/09/18 18:39	
1,2-Dichlorobenzene	5.0 U	130	5.0	25	07/09/18 18:39	
1,2-Dichloroethane	5.0 U	130	5.0	25	07/09/18 18:39	
1,2-Dichloropropane	5.3 U	130	5.3	25	07/09/18 18:39	
1,3,5-Trimethylbenzene	670	130	5.0	25	07/09/18 18:39	
1,3-Dichlorobenzene	5.0 U	130	5.0	25	07/09/18 18:39	
1,4-Dichlorobenzene	6.0 U	130	6.0	25	07/09/18 18:39	
1,4-Dioxane	130 U	2500	130	25	07/09/18 18:39	
2-Butanone (MEK)	30 J	250	20	25	07/09/18 18:39	
2-Hexanone	8.5 U	250	8.5	25	07/09/18 18:39	
4-Isopropyltoluene	14 J	130	5.0	25	07/09/18 18:39	
4-Methyl-2-pentanone	7.3 U	250	7.3	25	07/09/18 18:39	
Acetone	72 J	250	53	25	07/09/18 18:39	
Benzene	35 J	130	5.0	25	07/09/18 18:39	
Bromochloromethane	8.3 U	130	8.3	25	07/09/18 18:39	
Bromodichloromethane	7.8 U	130	7.8	25	07/09/18 18:39	
Bromoform	9.0 U	130	9.0	25	07/09/18 18:39	
Bromomethane	18 U	130	18	25	07/09/18 18:39	
Carbon Disulfide	7.8 U	250	7.8	25	07/09/18 18:39	
Carbon Tetrachloride	8.5 U	130	8.5	25	07/09/18 18:39	
Chlorobenzene	5.0 U	130	5.0	25	07/09/18 18:39	
Chloroethane	5.8 U	130	5.8	25	07/09/18 18:39	
Chloroform	7.0 U	130	7.0	25	07/09/18 18:39	
Chloromethane	7.0 U	130	7.0	25	07/09/18 18:39	
Cyclohexane	280	250	7.8	25	07/09/18 18:39	
Dibromochloromethane	5.0 U	130	5.0	25	07/09/18 18:39	
Dichlorodifluoromethane (CFC 12)	11 U	130	11	25	07/09/18 18:39	
Dichloromethane	12 U	130	12	25	07/09/18 18:39	
Ethylbenzene	1600	130	5.0	25	07/09/18 18:39	
Isopropylbenzene (Cumene)	99 J	130	5.0	25	07/09/18 18:39	
Methyl Acetate	8.3 U	250	8.3	25	07/09/18 18:39	
Methyl tert-Butyl Ether	5.3 U	130	5.3	25	07/09/18 18:39	
Methylcyclohexane	220 J	250	8.8	25	07/09/18 18:39	

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Sample Name: MW-A
Lab Code: R1806184-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	130	5.0	25	07/09/18 18:39	
Tetrachloroethene (PCE)	7.0 U	130	7.0	25	07/09/18 18:39	
Toluene	490	130	5.0	25	07/09/18 18:39	
Trichloroethene (TCE)	5.0 U	130	5.0	25	07/09/18 18:39	
Trichlorofluoromethane (CFC 11)	6.8 U	130	6.8	25	07/09/18 18:39	
Vinyl Chloride	5.5 U	130	5.5	25	07/09/18 18:39	
cis-1,2-Dichloroethene	6.5 U	130	6.5	25	07/09/18 18:39	
cis-1,3-Dichloropropene	7.5 U	130	7.5	25	07/09/18 18:39	
m,p-Xylenes	6300	130	5.3	25	07/09/18 18:39	
n-Butylbenzene	29 J	130	5.8	25	07/09/18 18:39	
n-Propylbenzene	270	130	5.0	25	07/09/18 18:39	
o-Xylene	1200	130	5.0	25	07/09/18 18:39	
sec-Butylbenzene	16 J	130	5.0	25	07/09/18 18:39	
tert-Butylbenzene	5.0 U	130	5.0	25	07/09/18 18:39	
trans-1,2-Dichloroethene	6.5 U	130	6.5	25	07/09/18 18:39	
trans-1,3-Dichloropropene	7.5 U	130	7.5	25	07/09/18 18:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	07/09/18 18:39	
Dibromofluoromethane	97	89 - 119	07/09/18 18:39	
Toluene-d8	99	87 - 121	07/09/18 18:39	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.36	539.3	J
000078-78-4	Butane, 2-methyl-	1.72	1607.8	JN
000109-66-0	Pentane	1.92	967.5	JN
000620-14-4	Benzene, 1-ethyl-3-methyl-	11.19	1966.5	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.43	573.8	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	11.92	678.0	JN
000496-11-7	Indane	12.08	589.8	JN
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	12.46	247.5	JN
027133-93-3	2,3-Dihydro-1-methylindene	12.55	194.0	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	12.82	205.0	JN
000824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	13.15	330.3	JN
000627-20-3	2-Pentene, (Z)-	2.03	303.3	JN
001630-94-0	Cyclopropane, 1,1-dimethyl-	2.18	461.8	JN
	unknown	2.73	215.3	J
	unknown	2.77	620.5	J
	unknown	2.81	385.3	J
000096-14-0	Pentane, 3-methyl-	3.04	415.3	JN

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Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000110-54-3	Hexane	3.36	372.3	JN
000096-37-7	Cyclopentane, methyl-	4.20	847.3	JN
	unknown	6.01	223.8	J



Semivolatile Organic Compounds by GC/MS

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Sample Name: MW-A
Lab Code: R1806184-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	13 U	47	13	5	07/09/18 18:25	7/5/18	
2,3,4,6-Tetrachlorophenol	8.2 U	47	8.2	5	07/09/18 18:25	7/5/18	
2,4,5-Trichlorophenol	16 U	47	16	5	07/09/18 18:25	7/5/18	
2,4,6-Trichlorophenol	7.2 U	47	7.2	5	07/09/18 18:25	7/5/18	
2,4-Dichlorophenol	6.5 U	47	6.5	5	07/09/18 18:25	7/5/18	
2,4-Dimethylphenol	5.6 U	47	5.6	5	07/09/18 18:25	7/5/18	
2,4-Dinitrophenol	14 U	240	14	5	07/09/18 18:25	7/5/18	
2,4-Dinitrotoluene	6.7 U	47	6.7	5	07/09/18 18:25	7/5/18	
2,6-Dinitrotoluene	5.5 U	47	5.5	5	07/09/18 18:25	7/5/18	
2-Chloronaphthalene	14 U	47	14	5	07/09/18 18:25	7/5/18	
2-Chlorophenol	6.9 U	47	6.9	5	07/09/18 18:25	7/5/18	
2-Methylnaphthalene	230	47	13	5	07/09/18 18:25	7/5/18	
2-Methylphenol	8.3 U	47	8.3	5	07/09/18 18:25	7/5/18	
2-Nitroaniline	11 U	240	11	5	07/09/18 18:25	7/5/18	
2-Nitrophenol	6.5 U	47	6.5	5	07/09/18 18:25	7/5/18	
3,3'-Dichlorobenzidine	5.2 U	47	5.2	5	07/09/18 18:25	7/5/18	
3- and 4-Methylphenol Coelution	8.1 U	47	8.1	5	07/09/18 18:25	7/5/18	
3-Nitroaniline	5.0 U	240	5.0	5	07/09/18 18:25	7/5/18	
4,6-Dinitro-2-methylphenol	8.0 U	240	8.0	5	07/09/18 18:25	7/5/18	
4-Bromophenyl Phenyl Ether	6.2 U	47	6.2	5	07/09/18 18:25	7/5/18	
4-Chloro-3-methylphenol	9.8 U	47	9.8	5	07/09/18 18:25	7/5/18	
4-Chloroaniline	6.7 U	47	6.7	5	07/09/18 18:25	7/5/18	
4-Chlorophenyl Phenyl Ether	12 U	47	12	5	07/09/18 18:25	7/5/18	
4-Nitroaniline	7.3 U	240	7.3	5	07/09/18 18:25	7/5/18	
4-Nitrophenol	5.2 U	240	5.2	5	07/09/18 18:25	7/5/18	
Acenaphthene	7.9 U	47	7.9	5	07/09/18 18:25	7/5/18	
Acenaphthylene	7.6 U	47	7.6	5	07/09/18 18:25	7/5/18	
Acetophenone	7.9 U	47	7.9	5	07/09/18 18:25	7/5/18	
Anthracene	5.5 U	47	5.5	5	07/09/18 18:25	7/5/18	
Atrazine	11 U	47	11	5	07/09/18 18:25	7/5/18	
Benz(a)anthracene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Benzaldehyde	15 U	240	15	5	07/09/18 18:25	7/5/18	
Benzo(a)pyrene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Benzo(b)fluoranthene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Benzo(g,h,i)perylene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Benzo(k)fluoranthene	5.3 U	47	5.3	5	07/09/18 18:25	7/5/18	
Biphenyl	13 U	47	13	5	07/09/18 18:25	7/5/18	
2,2'-Oxybis(1-chloropropane)	6.4 U	47	6.4	5	07/09/18 18:25	7/5/18	
Bis(2-chloroethoxy)methane	6.9 U	47	6.9	5	07/09/18 18:25	7/5/18	
Bis(2-chloroethyl) Ether	6.2 U	47	6.2	5	07/09/18 18:25	7/5/18	
Bis(2-ethylhexyl) Phthalate	7.0 U	47	7.0	5	07/09/18 18:25	7/5/18	
Butyl Benzyl Phthalate	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Caprolactam	6.3 U	47	6.3	5	07/09/18 18:25	7/5/18	

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Sample Name: MW-A
Lab Code: R1806184-001

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	5.7 U	47	5.7	5	07/09/18 18:25	7/5/18	
Chrysene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Di-n-butyl Phthalate	6.2 U	47	6.2	5	07/09/18 18:25	7/5/18	
Di-n-octyl Phthalate	6.2 U	47	6.2	5	07/09/18 18:25	7/5/18	
Dibenz(a,h)anthracene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Dibenzofuran	8.3 U	47	8.3	5	07/09/18 18:25	7/5/18	
Diethyl Phthalate	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Dimethyl Phthalate	8.2 U	47	8.2	5	07/09/18 18:25	7/5/18	
Fluoranthene	7.5 U	47	7.5	5	07/09/18 18:25	7/5/18	
Fluorene	6.5 U	47	6.5	5	07/09/18 18:25	7/5/18	
Hexachlorobenzene	6.6 U	47	6.6	5	07/09/18 18:25	7/5/18	
Hexachlorobutadiene	12 U	47	12	5	07/09/18 18:25	7/5/18	
Hexachlorocyclopentadiene	12 U	47	12	5	07/09/18 18:25	7/5/18	
Hexachloroethane	14 U	47	14	5	07/09/18 18:25	7/5/18	
Indeno(1,2,3-cd)pyrene	5.7 U	47	5.7	5	07/09/18 18:25	7/5/18	
Isophorone	6.3 U	47	6.3	5	07/09/18 18:25	7/5/18	
N-Nitrosodi-n-propylamine	7.8 U	47	7.8	5	07/09/18 18:25	7/5/18	
N-Nitrosodiphenylamine	6.4 U	47	6.4	5	07/09/18 18:25	7/5/18	
Naphthalene	390	47	11	5	07/09/18 18:25	7/5/18	
Nitrobenzene	6.8 U	47	6.8	5	07/09/18 18:25	7/5/18	
Pentachlorophenol (PCP)	9.5 U	240	9.5	5	07/09/18 18:25	7/5/18	
Phenanthrene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	
Phenol	7.9 U	47	7.9	5	07/09/18 18:25	7/5/18	
Pyrene	5.0 U	47	5.0	5	07/09/18 18:25	7/5/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	59	35 - 141	07/09/18 18:25	
2-Fluorobiphenyl	49	31 - 118	07/09/18 18:25	
2-Fluorophenol	32	10 - 105	07/09/18 18:25	
Nitrobenzene-d5	63	31 - 110	07/09/18 18:25	
Phenol-d6	23	10 - 107	07/09/18 18:25	
Terphenyl-d14	30	10 - 165	07/09/18 18:25	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000108-38-3	Benzene, 1,3-dimethyl-	3.94	530	JN
000103-65-1	Benzene, propyl-	4.38	220	JN
000611-14-3	Benzene, 1-ethyl-2-methyl-	4.55	250	JN
000526-73-8	Benzene, 1,2,3-trimethyl-	4.67	1300	JN
	unknown	4.98	190	J
001074-43-7	Benzene, 1-methyl-3-propyl-	5.05	170	JN

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Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	5.09	430	JN
001074-55-1	Benzene, 1-methyl-4-propyl-	5.15	94	JN
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	5.22	130	JN
	Unknown	5.24	120	J
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	5.42	120	JN
000095-93-2	Benzene, 1,2,4,5-tetramethyl-	5.50	200	JN
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	5.52	280	JN
	unknown	5.65	110	J
000767-99-7	Benzene, (1-methyl-1-propenyl)-, (	5.67	210	JN
	unknown	5.73	370	J
	unknown	5.76	110	J
	unknown	5.80	120	J
000090-12-0	Naphthalene, 1-methyl-	6.76	120	JN



QC Summary Forms

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Service Request: R1806184

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
MW-A	R1806184-001	91	97	99
Method Blank	RQ1806898-04	90	99	99
Lab Control Sample	RQ1806898-03	98	107	104
MW-A MS	RQ1806898-05	97	98	100
MW-A DMS	RQ1806898-06	98	101	99

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Service Request: R1806184
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Date Received: 07/02/18
Date Analyzed: 07/9/18

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-A
Lab Code: R1806184-001
Analysis Method: 8260C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1806898-05				Duplicate Matrix Spike RQ1806898-06					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane (TCA)	6.3 U	1260	1250	101	1280	1250	102	74-127	1	30
1,1,2,2-Tetrachloroethane	5.0 U	1290	1250	103	1290	1250	103	72-122	<1	30
1,1,2-Trichloroethane	6.3 U	1290	1250	103	1280	1250	102	82-121	<1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	1320	1250	106	1330	1250	107	50-147	<1	30
1,1-Dichloroethane (1,1-DCA)	5.0 U	1280	1250	103	1310	1250	105	74-132	2	30
1,1-Dichloroethene (1,1-DCE)	7.0 U	1220	1250	98	1240	1250	99	71-118	2	30
1,2,3-Trichlorobenzene	18 U	1290	1250	103	1310	1250	105	59-129	2	30
1,2,4-Trichlorobenzene	13 U	1300	1250	104	1290	1250	103	69-122	<1	30
1,2,4-Trimethylbenzene	2400	3970	1250	126	3830	1250	115	73-133	3	30
1,2-Dibromo-3-chloropropane (DBCP)	12 U	1250	1250	100	1310	1250	104	37-150	5	30
1,2-Dibromoethane	5.0 U	1270	1250	102	1310	1250	105	67-127	3	30
1,2-Dichlorobenzene	5.0 U	1200	1250	96	1200	1250	96	77-120	<1	30
1,2-Dichloroethane	5.0 U	1220	1250	97	1230	1250	99	68-130	1	30
1,2-Dichloropropane	5.3 U	1310	1250	104	1290	1250	104	79-124	<1	30
1,3,5-Trimethylbenzene	670	2030	1250	109	1990	1250	105	81-131	2	30
1,3-Dichlorobenzene	5.0 U	1240	1250	99	1210	1250	97	83-121	2	30
1,4-Dichlorobenzene	6.0 U	1230	1250	98	1200	1250	96	82-120	3	30
1,4-Dioxane	130 U	24700	25000	99	25300	25000	101	44-154	3	30
2-Butanone (MEK)	30 J	1240	1250	96	1270	1250	99	61-137	3	30
2-Hexanone	8.5 U	1230	1250	98	1260	1250	101	56-132	3	30
4-Isopropyltoluene	14 J	1330	1250	105	1320	1250	104	78-133	<1	30
4-Methyl-2-pentanone	7.3 U	1270	1250	102	1290	1250	103	60-141	2	30
Acetone	72 J	1170	1250	88	1180	1250	88	35-183	<1	30
Benzene	35 J	1300	1250	101	1350	1250	105	76-129	3	30
Bromochloromethane	8.3 U	1170	1250	94	1230	1250	98	80-122	5	30
Bromodichloromethane	7.8 U	1230	1250	98	1260	1250	101	78-133	3	30
Bromoform	9.0 U	1370	1250	109	1340	1250	107	58-133	2	30
Bromomethane	18 U	673	1250	54	736	1250	59	10-184	9	30
Carbon Disulfide	7.8 U	1190	1250	95	1250	1250	100	59-140	5	30
Carbon Tetrachloride	8.5 U	1350	1250	108	1350	1250	108	65-135	<1	30
Chlorobenzene	5.0 U	1260	1250	101	1260	1250	100	76-125	<1	30
Chloroethane	5.8 U	1380	1250	110	1120	1250	90	48-146	20	30
Chloroform	7.0 U	1290	1250	103	1300	1250	104	75-130	<1	30
Chloromethane	7.0 U	1140	1250	92	1130	1250	91	55-160	1	30
Cyclohexane	280	1560	1250	103	1590	1250	104	52-145	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Collected: 07/02/18
Date Received: 07/02/18
Date Analyzed: 07/9/18

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: MW-A
Lab Code: R1806184-001
Analysis Method: 8260C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1806898-05				Duplicate Matrix Spike RQ1806898-06					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Dibromochloromethane	5.0 U	1270	1250	101	1300	1250	104	72-128	3	30
Dichlorodifluoromethane (CFC 12)	11 U	1430	1250	114	1450	1250	116	49-154	1	30
Dichloromethane	12 U	1200	1250	96	1230	1250	98	73-122	2	30
Ethylbenzene	1600	3010	1250	116	2990	1250	115	72-134	<1	30
Isopropylbenzene (Cumene)	99 J	1480	1250	110	1450	1250	108	77-128	2	30
Methyl Acetate	8.3 U	1230	1250	99	1300	1250	104	26-121	6	30
Methyl tert-Butyl Ether	5.3 U	1220	1250	97	1270	1250	102	75-119	4	30
Methylcyclohexane	220 J	1500	1250	102	1500	1250	102	45-146	<1	30
Styrene	5.0 U	1440	1250	115	1440	1250	115	74-136	<1	30
Tetrachloroethene (PCE)	7.0 U	1280	1250	102	1290	1250	103	72-125	1	30
Toluene	490	1870	1250	110	1850	1250	109	79-119	<1	30
Trichloroethene (TCE)	5.0 U	1260	1250	101	1260	1250	100	74-122	<1	30
Trichlorofluoromethane (CFC 11)	6.8 U	1280	1250	103	1270	1250	101	71-136	1	30
Vinyl Chloride	5.5 U	1270	1250	102	1270	1250	102	74-159	<1	30
cis-1,2-Dichloroethene	6.5 U	1240	1250	99	1270	1250	102	77-127	3	30
cis-1,3-Dichloropropene	7.5 U	1390	1250	111	1390	1250	111	52-134	<1	30
m,p-Xylenes	6300	9560	2500	130 *	9490	2500	128 *	80-126	<1	30
n-Butylbenzene	29 J	1400	1250	110	1390	1250	109	78-133	<1	30
n-Propylbenzene	270	1550	1250	102	1510	1250	99	78-131	3	30
o-Xylene	1200	2670	1250	117	2630	1250	114	79-123	2	30
sec-Butylbenzene	16 J	1340	1250	106	1310	1250	104	75-129	2	30
tert-Butylbenzene	5.0 U	1270	1250	101	1270	1250	101	68-127	<1	30
trans-1,2-Dichloroethene	6.5 U	1340	1250	107	1330	1250	106	73-118	1	30
trans-1,3-Dichloropropene	7.5 U	1330	1250	107	1360	1250	109	71-133	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806898-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.25 U	5.0	0.25	1	07/09/18 13:00	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,1,2-Trichloroethane	0.25 U	5.0	0.25	1	07/09/18 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,1-Dichloroethene (1,1-DCE)	0.28 U	5.0	0.28	1	07/09/18 13:00	
1,2,3-Trichlorobenzene	0.69 U	5.0	0.69	1	07/09/18 13:00	
1,2,4-Trichlorobenzene	0.50 U	5.0	0.50	1	07/09/18 13:00	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	07/09/18 13:00	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,2-Dichloropropane	0.21 U	5.0	0.21	1	07/09/18 13:00	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
1,4-Dichlorobenzene	0.24 U	5.0	0.24	1	07/09/18 13:00	
1,4-Dioxane	5.1 U	100	5.1	1	07/09/18 13:00	
2-Butanone (MEK)	0.78 U	10	0.78	1	07/09/18 13:00	
2-Hexanone	0.34 U	10	0.34	1	07/09/18 13:00	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	07/09/18 13:00	
4-Methyl-2-pentanone	0.29 U	10	0.29	1	07/09/18 13:00	
Acetone	2.1 U	10	2.1	1	07/09/18 13:00	
Benzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
Bromochloromethane	0.33 U	5.0	0.33	1	07/09/18 13:00	
Bromodichloromethane	0.31 U	5.0	0.31	1	07/09/18 13:00	
Bromoform	0.36 U	5.0	0.36	1	07/09/18 13:00	
Bromomethane	0.70 U	5.0	0.70	1	07/09/18 13:00	
Carbon Disulfide	0.31 U	10	0.31	1	07/09/18 13:00	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	07/09/18 13:00	
Chlorobenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
Chloroethane	0.23 U	5.0	0.23	1	07/09/18 13:00	
Chloroform	0.28 U	5.0	0.28	1	07/09/18 13:00	
Chloromethane	0.28 U	5.0	0.28	1	07/09/18 13:00	
Cyclohexane	0.31 U	10	0.31	1	07/09/18 13:00	
Dibromochloromethane	0.20 U	5.0	0.20	1	07/09/18 13:00	
Dichlorodifluoromethane (CFC 12)	0.44 U	5.0	0.44	1	07/09/18 13:00	
Dichloromethane	0.47 U	5.0	0.47	1	07/09/18 13:00	
Ethylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	07/09/18 13:00	
Methyl Acetate	0.33 U	10	0.33	1	07/09/18 13:00	
Methyl tert-Butyl Ether	0.21 U	5.0	0.21	1	07/09/18 13:00	
Methylcyclohexane	0.35 U	10	0.35	1	07/09/18 13:00	

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Analytical Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: RQ1806898-04

Service Request: R1806184
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	07/09/18 13:00	
Tetrachloroethene (PCE)	0.28 U	5.0	0.28	1	07/09/18 13:00	
Toluene	0.20 U	5.0	0.20	1	07/09/18 13:00	
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	07/09/18 13:00	
Trichlorofluoromethane (CFC 11)	0.27 U	5.0	0.27	1	07/09/18 13:00	
Vinyl Chloride	0.22 U	5.0	0.22	1	07/09/18 13:00	
cis-1,2-Dichloroethene	0.26 U	5.0	0.26	1	07/09/18 13:00	
cis-1,3-Dichloropropene	0.30 U	5.0	0.30	1	07/09/18 13:00	
m,p-Xylenes	0.21 U	5.0	0.21	1	07/09/18 13:00	
n-Butylbenzene	0.23 U	5.0	0.23	1	07/09/18 13:00	
n-Propylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
o-Xylene	0.20 U	5.0	0.20	1	07/09/18 13:00	
sec-Butylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
tert-Butylbenzene	0.20 U	5.0	0.20	1	07/09/18 13:00	
trans-1,2-Dichloroethene	0.26 U	5.0	0.26	1	07/09/18 13:00	
trans-1,3-Dichloropropene	0.30 U	5.0	0.30	1	07/09/18 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	07/09/18 13:00	
Dibromofluoromethane	99	89 - 119	07/09/18 13:00	
Toluene-d8	99	87 - 121	07/09/18 13:00	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Analyzed: 07/09/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806898-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.4	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260C	18.9	20.0	95	78-126
1,1,2-Trichloroethane	8260C	19.3	20.0	96	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.2	20.0	106	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.1	20.0	100	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.7	20.0	98	71-118
1,2,3-Trichlorobenzene	8260C	21.1	20.0	105	67-136
1,2,4-Trichlorobenzene	8260C	20.9	20.0	105	75-132
1,2,4-Trimethylbenzene	8260C	20.0	20.0	100	81-126
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.6	20.0	98	55-136
1,2-Dibromoethane	8260C	20.1	20.0	100	82-127
1,2-Dichlorobenzene	8260C	18.6	20.0	93	80-119
1,2-Dichloroethane	8260C	19.1	20.0	95	71-127
1,2-Dichloropropane	8260C	19.4	20.0	97	80-119
1,3,5-Trimethylbenzene	8260C	19.9	20.0	99	81-128
1,3-Dichlorobenzene	8260C	19.4	20.0	97	83-121
1,4-Dichlorobenzene	8260C	18.5	20.0	92	79-119
1,4-Dioxane	8260C	385	400	96	44-154
2-Butanone (MEK)	8260C	18.2	20.0	91	61-137
2-Hexanone	8260C	18.4	20.0	92	63-124
4-Isopropyltoluene	8260C	20.3	20.0	102	78-133
4-Methyl-2-pentanone	8260C	18.2	20.0	91	66-124
Acetone	8260C	17.5	20.0	88	40-161
Benzene	8260C	20.2	20.0	101	79-119
Bromochloromethane	8260C	19.5	20.0	98	81-126
Bromodichloromethane	8260C	19.3	20.0	96	81-123
Bromoform	8260C	22.0	20.0	110	65-146
Bromomethane	8260C	16.7	20.0	84	42-166
Carbon Disulfide	8260C	19.3	20.0	96	66-128
Carbon Tetrachloride	8260C	20.1	20.0	100	70-127
Chlorobenzene	8260C	19.4	20.0	97	80-121
Chloroethane	8260C	17.2	20.0	86	62-131
Chloroform	8260C	19.3	20.0	96	79-120

ALS Group USA, Corp.
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QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Analyzed: 07/09/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806898-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	19.4	20.0	97	65-135
Cyclohexane	8260C	19.7	20.0	98	69-120
Dibromochloromethane	8260C	19.8	20.0	99	72-128
Dichlorodifluoromethane (CFC 12)	8260C	25.1	20.0	126	59-155
Dichloromethane	8260C	19.5	20.0	97	73-122
Ethylbenzene	8260C	19.6	20.0	98	76-120
Isopropylbenzene (Cumene)	8260C	20.0	20.0	100	77-128
Methyl Acetate	8260C	19.1	20.0	95	40-112
Methyl tert-Butyl Ether	8260C	19.8	20.0	99	75-118
Methylcyclohexane	8260C	19.6	20.0	98	51-129
Styrene	8260C	19.8	20.0	99	80-124
Tetrachloroethene (PCE)	8260C	20.9	20.0	105	72-125
Toluene	8260C	19.8	20.0	99	79-119
Trichloroethene (TCE)	8260C	20.1	20.0	100	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.8	20.0	109	71-136
Vinyl Chloride	8260C	20.6	20.0	103	74-159
cis-1,2-Dichloroethene	8260C	19.5	20.0	98	80-121
cis-1,3-Dichloropropene	8260C	20.2	20.0	101	77-122
m,p-Xylenes	8260C	40.9	40.0	102	80-126
n-Butylbenzene	8260C	19.9	20.0	99	78-133
n-Propylbenzene	8260C	19.3	20.0	96	78-131
o-Xylene	8260C	19.6	20.0	98	79-123
sec-Butylbenzene	8260C	20.1	20.0	101	75-129
tert-Butylbenzene	8260C	19.4	20.0	97	76-126
trans-1,2-Dichloroethene	8260C	20.2	20.0	101	73-118
trans-1,3-Dichloropropene	8260C	21.2	20.0	106	71-133



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
MW-A	R1806184-001	59	49	32
Method Blank	RQ1806733-01	80	65	35
Lab Control Sample	RQ1806733-02	79	72	39
Duplicate Lab Control Sample	RQ1806733-03	84	78	42

ALS Group USA, Corp.
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QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		31-110	10-107	10-165
MW-A	R1806184-001	63	23	30
Method Blank	RQ1806733-01	71	26	75
Lab Control Sample	RQ1806733-02	73	30	72
Duplicate Lab Control Sample	RQ1806733-03	81	33	70

ALS Group USA, Corp.
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Analytical Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806733-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	10	2.5	1	07/09/18 11:19	7/5/18	
2,3,4,6-Tetrachlorophenol	1.7 U	10	1.7	1	07/09/18 11:19	7/5/18	
2,4,5-Trichlorophenol	3.1 U	10	3.1	1	07/09/18 11:19	7/5/18	
2,4,6-Trichlorophenol	1.5 U	10	1.5	1	07/09/18 11:19	7/5/18	
2,4-Dichlorophenol	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
2,4-Dimethylphenol	1.2 U	10	1.2	1	07/09/18 11:19	7/5/18	
2,4-Dinitrophenol	2.7 U	50	2.7	1	07/09/18 11:19	7/5/18	
2,4-Dinitrotoluene	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
2,6-Dinitrotoluene	1.1 U	10	1.1	1	07/09/18 11:19	7/5/18	
2-Chloronaphthalene	2.7 U	10	2.7	1	07/09/18 11:19	7/5/18	
2-Chlorophenol	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
2-Methylnaphthalene	2.5 U	10	2.5	1	07/09/18 11:19	7/5/18	
2-Methylphenol	1.7 U	10	1.7	1	07/09/18 11:19	7/5/18	
2-Nitroaniline	2.1 U	50	2.1	1	07/09/18 11:19	7/5/18	
2-Nitrophenol	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
3,3'-Dichlorobenzidine	1.1 U	10	1.1	1	07/09/18 11:19	7/5/18	
3- and 4-Methylphenol Coelution	1.7 U	10	1.7	1	07/09/18 11:19	7/5/18	
3-Nitroaniline	1.0 U	50	1.0	1	07/09/18 11:19	7/5/18	
4,6-Dinitro-2-methylphenol	1.6 U	50	1.6	1	07/09/18 11:19	7/5/18	
4-Bromophenyl Phenyl Ether	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
4-Chloro-3-methylphenol	2.0 U	10	2.0	1	07/09/18 11:19	7/5/18	
4-Chloroaniline	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
4-Chlorophenyl Phenyl Ether	2.3 U	10	2.3	1	07/09/18 11:19	7/5/18	
4-Nitroaniline	1.5 U	50	1.5	1	07/09/18 11:19	7/5/18	
4-Nitrophenol	1.1 U	50	1.1	1	07/09/18 11:19	7/5/18	
Acenaphthene	1.6 U	10	1.6	1	07/09/18 11:19	7/5/18	
Acenaphthylene	1.6 U	10	1.6	1	07/09/18 11:19	7/5/18	
Acetophenone	1.6 U	10	1.6	1	07/09/18 11:19	7/5/18	
Anthracene	1.1 U	10	1.1	1	07/09/18 11:19	7/5/18	
Atrazine	2.1 U	10	2.1	1	07/09/18 11:19	7/5/18	
Benz(a)anthracene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Benzaldehyde	2.9 U	50	2.9	1	07/09/18 11:19	7/5/18	
Benzo(a)pyrene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Benzo(b)fluoranthene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Benzo(k)fluoranthene	1.1 U	10	1.1	1	07/09/18 11:19	7/5/18	
Biphenyl	2.5 U	10	2.5	1	07/09/18 11:19	7/5/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Bis(2-chloroethoxy)methane	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
Butyl Benzyl Phthalate	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Caprolactam	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806733-01

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.2 U	10	1.2	1	07/09/18 11:19	7/5/18	
Chrysene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Di-n-butyl Phthalate	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Di-n-octyl Phthalate	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Dibenz(a,h)anthracene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Dibenzofuran	1.7 U	10	1.7	1	07/09/18 11:19	7/5/18	
Diethyl Phthalate	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Dimethyl Phthalate	1.7 U	10	1.7	1	07/09/18 11:19	7/5/18	
Fluoranthene	1.5 U	10	1.5	1	07/09/18 11:19	7/5/18	
Fluorene	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Hexachlorobenzene	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
Hexachlorobutadiene	2.4 U	10	2.4	1	07/09/18 11:19	7/5/18	
Hexachlorocyclopentadiene	2.3 U	10	2.3	1	07/09/18 11:19	7/5/18	
Hexachloroethane	2.7 U	10	2.7	1	07/09/18 11:19	7/5/18	
Indeno(1,2,3-cd)pyrene	1.2 U	10	1.2	1	07/09/18 11:19	7/5/18	
Isophorone	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
N-Nitrosodi-n-propylamine	1.6 U	10	1.6	1	07/09/18 11:19	7/5/18	
N-Nitrosodiphenylamine	1.3 U	10	1.3	1	07/09/18 11:19	7/5/18	
Naphthalene	2.2 U	10	2.2	1	07/09/18 11:19	7/5/18	
Nitrobenzene	1.4 U	10	1.4	1	07/09/18 11:19	7/5/18	
Pentachlorophenol (PCP)	1.9 U	50	1.9	1	07/09/18 11:19	7/5/18	
Phenanthrene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	
Phenol	1.6 U	10	1.6	1	07/09/18 11:19	7/5/18	
Pyrene	1.0 U	10	1.0	1	07/09/18 11:19	7/5/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	35 - 141	07/09/18 11:19	
2-Fluorobiphenyl	65	31 - 118	07/09/18 11:19	
2-Fluorophenol	35	10 - 105	07/09/18 11:19	
Nitrobenzene-d5	71	31 - 110	07/09/18 11:19	
Phenol-d6	26	10 - 107	07/09/18 11:19	
Terphenyl-d14	75	10 - 165	07/09/18 11:19	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Analyzed: 07/09/18

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample RQ1806733-02				Duplicate Lab Control Sample RQ1806733-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	56.0	103	55	62.7	103	61	15-132	10	30
2,3,4,6-Tetrachlorophenol	8270D	80.0	100	80	84.0	100	84	42-136	5	30
2,4,5-Trichlorophenol	8270D	87.0	100	87	87.9	100	88	48-134	1	30
2,4,6-Trichlorophenol	8270D	78.9	100	79	82.6	100	83	44-135	5	30
2,4-Dichlorophenol	8270D	71.0	100	71	78.4	100	78	48-127	9	30
2,4-Dimethylphenol	8270D	72.1	100	72	77.4	100	77	59-113	7	30
2,4-Dinitrophenol	8270D	78.2	100	78	83.8	100	84	21-154	7	30
2,4-Dinitrotoluene	8270D	84.4	100	84	91.1	100	91	54-130	8	30
2,6-Dinitrotoluene	8270D	85.2	100	85	93.8	100	94	51-127	10	30
2-Chloronaphthalene	8270D	67.7	100	68	74.6	100	75	40-108	10	30
2-Chlorophenol	8270D	62.3	100	62	65.7	100	66	42-112	6	30
2-Methylnaphthalene	8270D	61.6	100	62	70.2	100	70	34-102	12	30
2-Methylphenol	8270D	57.7	100	58	61.1	100	61	47-100	5	30
2-Nitroaniline	8270D	80.5	100	81	85.2	100	85	52-133	5	30
2-Nitrophenol	8270D	76.2	100	76	85.4	100	85	43-131	11	30
3,3'-Dichlorobenzidine	8270D	84.6	100	85	81.8	100	82	43-126	4	30
3- and 4-Methylphenol Coelution	8270D	53.7	100	54	57.5	100	58	40-92	7	30
3-Nitroaniline	8270D	74.0	100	74	75.1	100	75	42-111	1	30
4,6-Dinitro-2-methylphenol	8270D	83.7	100	84	88.0	100	88	36-152	5	30
4-Bromophenyl Phenyl Ether	8270D	75.6	100	76	80.0	100	80	48-114	5	30
4-Chloro-3-methylphenol	8270D	72.9	100	73	78.3	100	78	52-113	7	30
4-Chloroaniline	8270D	73.2	100	73	68.2	100	68	44-109	7	30
4-Chlorophenyl Phenyl Ether	8270D	76.0	100	76	79.5	100	80	51-107	5	30
4-Nitroaniline	8270D	78.9	100	79	83.3	100	83	54-133	5	30
4-Nitrophenol	8270D	34.7 J	100	35	37.6 J	100	38	10-126	8	30
Acenaphthene	8270D	72.3	100	72	77.8	100	78	52-107	8	30
Acenaphthylene	8270D	77.7	100	78	84.0	100	84	55-109	7	30
Acetophenone	8270D	140	200	70	147	200	74	46-114	6	30
Anthracene	8270D	91.5	100	91	94.7	100	95	55-116	4	30
Atrazine	8270D	115	100	115	122 E	100	122	61-164	6	30
Benz(a)anthracene	8270D	86.5	100	86	85.7	100	86	61-121	<1	30
Benzaldehyde	8270D	77.6	100	78	83.6	100	84	45-132	7	30
Benzo(a)pyrene	8270D	87.8	100	88	88.4	100	88	44-114	<1	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Analyzed: 07/09/18

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ1806733-02					Duplicate Lab Control Sample RQ1806733-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	82.9	100	83	84.7	100	85	62-115	2	30
Benzo(g,h,i)perylene	8270D	87.5	100	87	89.7	100	90	63-136	3	30
Benzo(k)fluoranthene	8270D	87.5	100	88	88.3	100	88	49-133	<1	30
Biphenyl	8270D	60.1	100	60	66.5	100	66	39-106	10	30
2,2'-Oxybis(1-chloropropane)	8270D	85.5	100	85	89.7	100	90	32-122	6	30
Bis(2-chloroethoxy)methane	8270D	79.5	100	79	86.8	100	87	55-110	10	30
Bis(2-chloroethyl) Ether	8270D	73.0	100	73	77.0	100	77	46-102	5	30
Bis(2-ethylhexyl) Phthalate	8270D	90.9	100	91	81.7	100	82	51-132	10	30
Butyl Benzyl Phthalate	8270D	84.6	100	85	84.3	100	84	41-148	1	30
Caprolactam	8270D	21.4	100	21	24.8	100	25	10-41	17	30
Carbazole	8270D	86.4	100	86	90.7	100	91	56-139	6	30
Chrysene	8270D	88.3	100	88	87.7	100	88	57-118	<1	30
Di-n-butyl Phthalate	8270D	89.5	100	89	92.1	100	92	57-128	3	30
Di-n-octyl Phthalate	8270D	85.2	100	85	86.3	100	86	62-124	1	30
Dibenz(a,h)anthracene	8270D	74.4	100	74	76.2	100	76	54-135	3	30
Dibenzofuran	8270D	73.7	100	74	78.1	100	78	55-110	5	30
Diethyl Phthalate	8270D	76.2	100	76	82.8	100	83	53-113	9	30
Dimethyl Phthalate	8270D	74.0	100	74	79.4	100	79	51-112	7	30
Fluoranthene	8270D	92.4	100	92	96.5	100	97	66-127	5	30
Fluorene	8270D	76.1	100	76	82.5	100	83	54-106	9	30
Hexachlorobenzene	8270D	81.4	100	81	86.6	100	87	53-123	7	30
Hexachlorobutadiene	8270D	47.7	100	48	55.4	100	55	16-95	14	30
Hexachlorocyclopentadiene	8270D	31.7	100	32	34.1	100	34	10-99	6	30
Hexachloroethane	8270D	44.5	100	44	48.1	100	48	15-92	9	30
Indeno(1,2,3-cd)pyrene	8270D	85.4	100	85	86.1	100	86	62-137	1	30
Isophorone	8270D	81.0	100	81	88.8	100	89	50-116	9	30
N-Nitrosodi-n-propylamine	8270D	67.2	100	67	69.6	100	70	49-115	4	30
N-Nitrosodiphenylamine	8270D	81.7	100	82	85.7	100	86	45-123	5	30
Naphthalene	8270D	62.6	100	63	69.4	100	69	38-99	9	30
Nitrobenzene	8270D	75.2	100	75	81.7	100	82	46-108	9	30
Pentachlorophenol (PCP)	8270D	91.8	100	92	95.0	100	95	29-164	3	30
Phenanthrene	8270D	86.4	100	86	90.7	100	91	58-118	6	30
Phenol	8270D	30.5	100	31	33.4	100	33	10-113	6	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated
Project: 147 State Street, Manchester/5474S-18
Sample Matrix: Water

Service Request: R1806184
Date Analyzed: 07/09/18

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyrene	8270D	89.1	100	89	89.1	100	89	61-122	<1	30

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region E
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139

April 18, 2017

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY
Supplemental Work Plan, February 2017**

Dear Mayor Johnsen:

The New York State Departments of Environmental Conservation and Health (Departments) have reviewed the Supplemental Work Plan (SWP) dated February 2017 and prepared by Clark Patterson Lee for the Frederick Property ("site") located in the Village of Manchester, Ontario County. In accordance with 6 NYCRR 375-1.6, the Departments have determined that the SWP does not substantially address the requirements of the Environmental Restoration Program. The SWP is hereby disapproved. Please address the following comments:

1. Please certify the work plan in accordance with DER-10 Section 1.5.
2. Please include the analytical lab reports associated with Tables 1, 2, and 3 and remove any samples from the tables that do not have corresponding lab data, if needed.
3. In Section 3, paragraph 3, after the last sentence add that samples will be collected in the worst case areas indicated by stains, odors, or visual impairments. In addition, one boring from each excavation (i.e. pump island excavation, hydraulic lift excavation, and dry well excavation) will be sampled from 0-2 inches, 2-12 inches, and 12-24 inches.
4. In Section 3, add Pesticides to the sampling parameters. Backfill will be sampled for full suite analysis (TCL VOCs and SVOCs, TAL Metals, PCBs, and Pesticides) with results compared to DER-10 Appendix 5.
5. Include in Section 4.4 that ASP Category B will be used for evaluation of the samples.
6. All data associated with the work plan will be included in the Final Engineering Report. A separate Supplemental Remedial Investigation Report is not needed unless further work is necessary. Please update Section 6 to reflect this.
7. Please include a Community Air Monitoring Plan (CAMP) in the Appendices, independent of the Health and Safety Plan (HASP).
8. Please update the schedule accordingly.

Per 6 NYCRR Part 375-1.6, please notify me in writing by **May 3, 2017** which of the following options you will choose to address these comments:

- Modify the SWP to address these comments and submit a revised SWP by **May 18, 2017**;
- Invoke dispute resolution; or,
- Terminate the Environmental Restoration Agreement.

The Departments seek to resolve outstanding differences in a mutually agreeable manner which addresses the requirements of the Environmental Restoration Agreement, Part 375, and associated plans. To that end, please contact me before **May 3, 2017** at (585) 226-5349 if you have any questions or to schedule a meeting or conference call to discuss these comments.

Sincerely,

Danielle Miles, EIT
Engineer Trainee

cc:

Norman Gardner, Clark Patterson Lee
Bernette Schilling, NYSDEC
Frank Sowers, NYSDEC
Steven Berninger, NYSDOH
Justin Deming, NYSDOH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
5274 East Avon-Lima Road, Avon, NY 14414-9516
T: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

February 1, 2018

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY**

Dear Mayor Johnsen:

The New York State Department of Environmental Conservation (NYSDEC) met with the Village of Manchester on January 24, 2018 to discuss the November 16, 2017 letter which detailed the need for additional work at the site. Below is a list of what is required from the Village of Manchester for this site:

1. In order for the NYSDEC to issue a release letter to the Village as part of the Environmental Restoration Program, a complete and revised Final Engineering Report (FER) must be submitted that addresses the following comments (which are also detailed in the January 9, 2017 FER disapproval letter):
 - a. Tabulate analytical data and compare the results to Part 375 unrestricted and restricted residential soil cleanup objectives for soil and Technical Operational Guidance Series (TOGS) standards for groundwater;
 - b. Include Interim Remedial Measure (IRM) sample results in the appendix (from the 2000/2001 IRM Work – these results were attached to the January 9, 2017 letter);
 - c. Include a site map that comprises a survey of the following:
 - i. approximate excavation limits from the 2006 remedial action work; and,
 - ii. sample locations from 2017 field work, including details on the depth and material of the backfill (i.e. sand, crusher run, etc.);
 - d. Results from the supplemental work completed in 2017 (see comment #3); and,
 - e. Results for any future additional work completed at the site.
2. Please notify NYSDEC how you choose to proceed with the supplemental investigation work required as stated in the November 16, 2017 letter. The Village's options are to either complete the work themselves or the NYSDEC will complete this work and determine how to proceed moving forward as discussed during the January 24, 2018 meeting.
3. A Report for Supplemental Work completed in August-September 2017 is needed, documenting the field work and sample results in accordance with DER-10 and the approved 2017 Supplemental Work Plan (SWP) completed by Clark Patterson Lee. In addition, it is the NYSDEC's understanding that the following tasks have not been completed as part of this supplemental work:
 - a. A Data Usability Summary Report (DUSR) as specified in Section 4.4 of the SWP;
 - b. Analytical data provided in table format and compared to Part 375 unrestricted and restricted residential soil cleanup objectives as described in comment #1a above and Section 6.0 of the SWP; and,

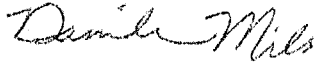


Department of
Environmental
Conservation

- c. A site survey as described in comment #1c above and as specified in Section 3.1 of the SWP.
4. The Village will need to determine if Clark Patterson Lee will sign off on the FER and who will sign off on any additional work (this person must be a Professional Engineer – refer to DER-10 Section 1.5(b)(4)).
 5. If the Village has performed groundwater monitoring in the past in accordance with the Site Management Plan (SMP) and has those results, please provide these results to the NYSDEC (specifically, any groundwater data from the site during 2009-2017).
 6. Please remove drums from the site in accordance with DER-10 Section 3.3(e) and 6 NYCRR Parts 360, 364, and 370. The Village will need to contact the local sewer municipality to dispose of wastewater and contact a landfill to dispose waste soils.

If you have any questions about the above, please contact me at (585) 226-5349 or danielle.miles@dec.ny.gov.

Sincerely,



Danielle Miles, EIT
Environmental Engineer

cc:

John Tyo, Attorney
Rita Gurewitch, Village Clerk
Bernette Schilling, NYSDEC
Frank Sowers, NYSDEC
Dusty Tinsley, NYSDEC
Stephen Berninger, NYSDOH
Justin Deming, NYSDOH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

January 13, 2017

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY
Final Engineering Report, November 2016**

Dear Mayor Johnsen:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the Final Engineering Report (FER) dated November 2016 and prepared by Clark Patterson Lee for the Frederick Property ("site") located in the Village of Manchester, Ontario County. In accordance with 6 NYCRR 375-1.6, NYSDEC has determined that the FER does not substantially address the requirements of the Environmental Restoration Program. The FER is hereby disapproved. Please address the following comments in a timely manner to reach an approvable FER:

1. Please tabulate analytical data with positive detections, compare the results to Part 375 unrestricted and restricted residential soil cleanups objectives for soil and Technical Operational Guidance Series (TOGS) standards for groundwater.
2. Include missing IRM sample results (attached) in the appropriate appendix within the report.
3. Include remaining geoprobe sample results (only 2 – lift and dry well – found in report Appendix L). If the missing data cannot be found, the areas need to be re-sampled in accordance with the Work Plan discussed in Comment 5 below.
4. Please complete a site map that includes a survey of excavation limits and depths, confirmatory/documentation sample locations, and cover restoration depths and materials to the best of your ability. This map shall represent the as-built drawing for the remediation work and be stamped by a professional engineer.
5. In addition to the above, please complete a Work Plan to sample excavation backfill per DER-10 requirements and obtain any additional information needed to complete the FER. Include sample results and DUSR in the FER.

Please submit a work plan with a schedule of events by **February 10, 2017**. If this date is unfeasible, please notify me in writing by **January 27, 2017**. NYSDEC seeks to resolve outstanding differences in a mutually agreeable manner which addresses the requirements for the Final Engineering Report as in Part 375. To that end, please contact me at (585) 226-5349 or danielle.miles@dec.ny.gov if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Danielle Miles".

Danielle Miles, EIT
Environmental Engineer

E-Enclosure:
IRM Sample Results

ec: w/enclosure
Norman Gardner, Clark Patterson Lee
Bernette Schilling, NYSDEC
Frank Sowers, NYSDEC
Michael Cruden, NYSDEC
Justin Deming, NYSDOH

NEW

Division

6274 E

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Annotated copy
provided to DAY by
Village of
Manchester on
2018-03-15

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Region 8

414-9516

Norm - Gardner
C: 585-764-1659 -

ofc: 585-402-7570

These items checked were
discussed with Norm Gardner.
Please contact him as to status.
We do not have the E-enclosure
on the January 16th. 2017 letter.
Please check w/DEC or Norm
to see if they have copy.

[Signature]

January 13, 2017

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY
Final Engineering Report, November 2016

Dear Mayor Johnsen:

The New York State Department of Environmental Conservation (NYSDEC) has reviewed the Final Engineering Report (FER) dated November 2016 and prepared by Clark Patterson Lee for the Frederick Property ("site") located in the Village of Manchester, Ontario County. In accordance with 6 NYCRR 375-1.6, NYSDEC has determined that the FER does not substantially address the requirements of the Environmental Restoration Program. The FER is hereby disapproved. Please address the following comments in a timely manner to reach an approvable FER:

1. Please tabulate analytical data with positive detections, compare the results to Part 375 unrestricted and restricted residential soil cleanups objectives for soil and Technical Operational Guidance Series (TOGS) standards for groundwater.
2. Include missing IRM sample results (attached) in the appropriate appendix within the report.
3. Include remaining geoprobe sample results (only 2 - lift and dry well - found in report Appendix L). If the missing data cannot be found, the areas need to be re-sampled in accordance with the Work Plan discussed in Comment 5 below.
4. Please complete a site map that includes a survey of excavation limits and depths, confirmatory/documentation sample locations, and cover restoration depths and materials to the best of your ability. This map shall represent the as-built drawing for the remediation work and be stamped by a professional engineer.
5. In addition to the above, please complete a Work Plan to sample excavation backfill per DER-10 requirements and obtain any additional information needed to complete the FER. Include sample results and DUSR in the FER.

doable -

Please submit a work plan with a schedule of events by **February 10, 2017**. If this date is unfeasible, please notify me in writing by **January 27, 2017**. NYSDEC seeks to resolve outstanding differences in a mutually agreeable manner which addresses the requirements for the Final Engineering Report as in Part 375. To that end, please contact me at (585) 226-5349 or danielle.miles@dec.ny.gov if you have any questions.



Department of
Environmental
Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

May 21, 2018

Mayor Nancy W. Johnsen
Village of Manchester
P.O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester
Investigation Work Plan, April 2018**

Dear Mayor Johnsen:

The New York State Departments of Environmental Conservation (NYSDEC) and Health (NYSDOH; collectively referred to as the Departments) have reviewed the *Investigation Work Plan* (IWP) dated April 2018 and prepared by Day Engineering, P.C. for the Frederick Property located in the Village of Manchester, Ontario County. In accordance with 6 NYCRR 375-1.6, the Departments have determined that the IWP, with the following modifications, substantially addresses the requirements of the Environmental Restoration Program:

1. According to the Record of Decision and Easement, the applicable Soil Cleanup Objectives (SCOs) for the site are restricted residential.
2. Appendix B: NYSDOH Generic Community Air Monitoring Plan (CAMP) notes that "special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures." Therefore, in addition to the monitoring associated with the generic CAMP, please include the following provisions:
 - a. Continuous air monitoring in the direction of the residents regardless of wind direction;
 - b. Planned work should be implemented during hours when building occupancy is at a minimum;
 - c. Continuous monitoring must reflect any exposed individuals and/or locations of ventilation intakes, window/door openings or conduits;
 - d. Background readings should be taken prior to planned work commencement and if total particulate concentrations next to intake vents, windows, doors, etc. exceed 150 mcg/m³, work activities should be suspended until controls are implemented and successful in reducing total particulate concentrations.
3. Section 2.2, page 5: If grossly contaminated media is not identified in test borings TB-201 through TB-205, but is observed at MW-A, additional borings will be advanced between the test borings, TB-201 through TB-205, and MW-A (i.e. 5 to 10 feet away from SB-3) to further delineate the grossly contaminated material.
4. A meeting will be scheduled once field work is completed and analytical results are received to discuss the next actions and reporting.

With the understanding that the modified Work Plan is agreed to, the Investigation Work Plan is hereby approved. By **June 5, 2018** and before field work begins, please sign the IWP and attach a copy of this letter to the Final IWP. Please distribute the IWP as follows:

- Danielle Miles (NYSDEC – Avon, 1 bound hard copy); and,
- Steven Berninger (NYSDOH – Albany, electronic file).

Please notify the Departments at least 7 days in advance to the start of field activities. If you have questions or concerns, please contact me at 585-226-5349.

Sincerely,



Danielle Miles, EIT
Assistant Engineer

cc.: Rita Gurewitch, Village of Manchester
Charles Hampton, Day Environmental
Ray Kampff, Day Environmental
Bernette Schilling, NYSDEC

Frank Sowers, NYSDEC
Steven Berninger, NYSDOH
Justin Deming, NYSDOH
Dusty Tinsley, NYSDEC



Department of
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November 16, 2017

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY
Supplemental Work**

Dear Mayor Johnsen:

The New York State Department of Environmental Conservation (NYSDEC) has received the document entitled "*Subsurface Investigation Report*" (the Report) prepared by Empire Geo Services, Inc dated October 3, 2017 for the Frederick Property site in the Village of Manchester, Ontario County.

The data provided in the Report and observed by the NYSDEC during field work on August 31, 2017 indicate that "grossly contaminated media" as defined in DER-10 1.3(b)(23) is currently present at the site. As such, further delineation to define the extent of the grossly contaminated media is needed to determine whether additional remediation and/or monitoring is needed at the site.

To address this issue, please submit an Investigation Work Plan (Work Plan) by **December 18, 2017**. The Work Plan should include details for sampling and analysis of soil and groundwater at the site in accordance with DER-10 and 6 NYCRR Part 375 regulations.

Please notify me in writing by **December 1, 2017** whether you choose to submit a Work Plan, invoke dispute resolution, or terminate the Environmental Restoration Agreement.

Thank you for your cooperation in this matter. Please contact me at (585) 226-5349 or danielle.miles@dec.ny.gov if you have any questions or to schedule a meeting or conference call to discuss.

Sincerely,



Danielle Miles, EIT
Environmental Engineer

cc: Rita Gurewitch, Village of Manchester
Norman Gardner, Clark Patterson Lee
Bernette Schilling, NYSDEC

Steven Berninger, NYSDOH
Justin Deming, NYSDOH
Frank Sowers, NYSDEC



Department of
Environmental
Conservation

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September 5, 2018

Village of Manchester
Mayor Nancy W. Johnsen
P. O. Box 188
Manchester, NY 14504

**Re: Frederick Property (#B00131)
147 State Street, Village of Manchester, NY
Data Package for Supplementary Studies**

Dear Mayor Johnsen:

The New York State Departments of Environmental Conservation and Health (collectively referred to as the "Departments") have received the document entitled "*Data Package for Supplementary Studies: June 2018*" (the Report) prepared by Day Engineering, P.C. dated July 26, 2018 for the Frederick Property site in the Village of Manchester, Ontario County.

The data provided in the Report indicates that grossly contaminated material was not encountered during the supplemental investigation completed between June 20, 2018 and July 2, 2018. However, soil and groundwater analytical results indicate exceedances of Standards, Criteria, and Guidance (SCGs). Based on these results, further remediation at the site is not needed at this time. Instead, a revised Site Management Plan will be submitted to include the additional data from the supplemental work. The additional data from the supplemental work will also be included in the revised Final Engineering Report (FER).

In addition, in a phone call on August 13, 2018, Day Environmental asked what remaining work is needed to receive a Certificate of Completion for the site. The following is a list of requirements and includes items from the letter sent to the Village of Manchester on February 1, 2018:

1. A complete and revised FER must be submitted.
2. A survey of approximate excavation limits based on observations from the recent 2017 and 2018 sample events, and information provided in the February 2017 FER and attachment.
3. A figure of sample locations from the 2017 and 2018 field work and details on backfill depth and material.
4. A data usability summary report (DUSR) for the 2017 and 2018 analytical results and data provided in table format, compared to Part 375 Restricted Residential Soil Cleanup Objectives.
5. The Village and Day Engineering, P.C. will need to determine who will sign off on the FER (this person must be a Professional Engineer – refer to DER-10 Section 1.5(b)(4)).
6. Investigation derived waste must be removed from the site in accordance with DER-10 Section 3.3(e) and 6 NYCRR Parts 360, 364, and 370.

Please submit a schedule with dates of when the above items will be completed by **September 20, 2018**.

Contact me at (585) 226-5349 or danielle.miles@dec.ny.gov before September 20, 2018 if you have any questions or to schedule a meeting or conference call to discuss.

Sincerely,

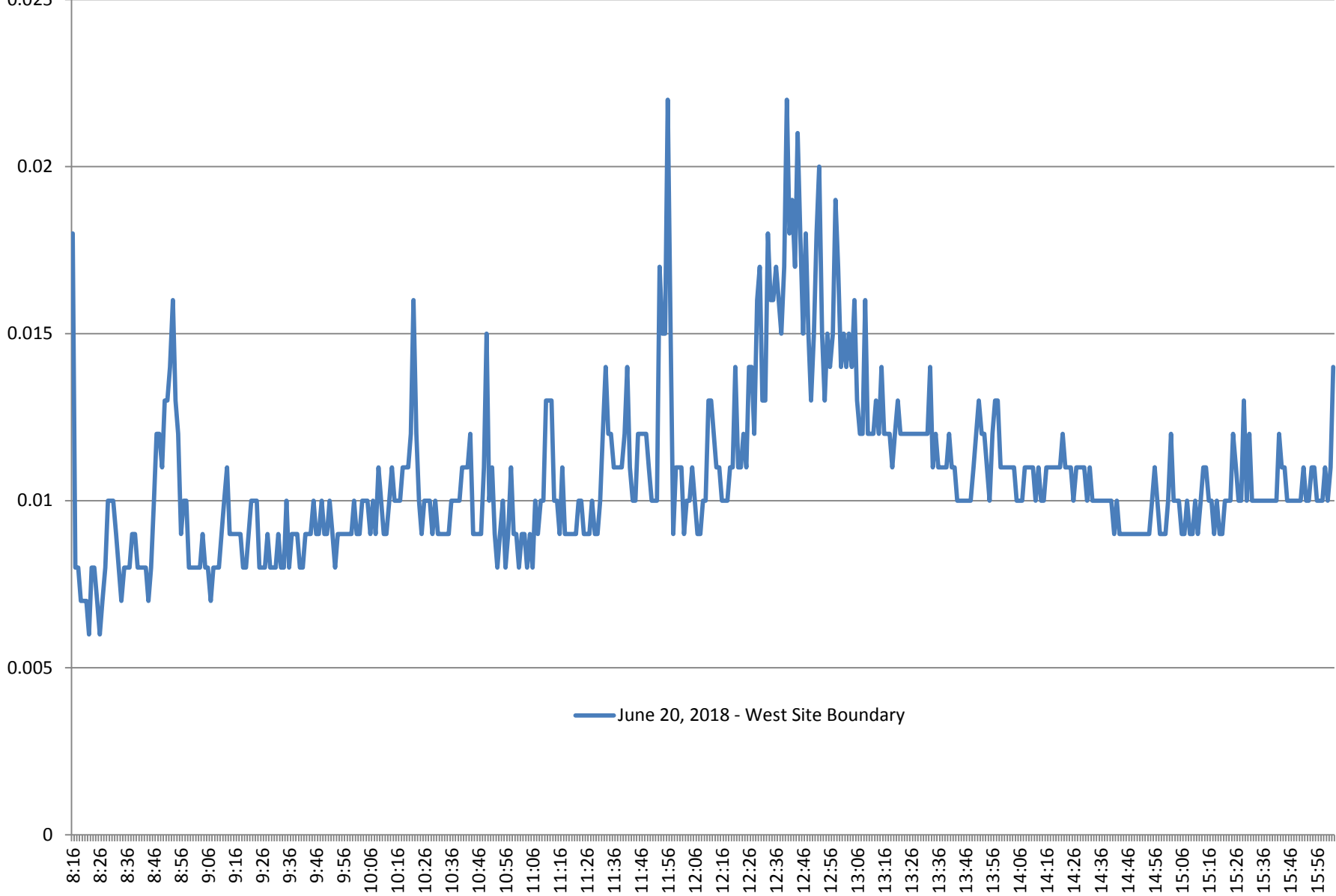
A handwritten signature in cursive script, reading "Danielle Miles", in dark ink.

Danielle Miles, EIT
Environmental Engineer

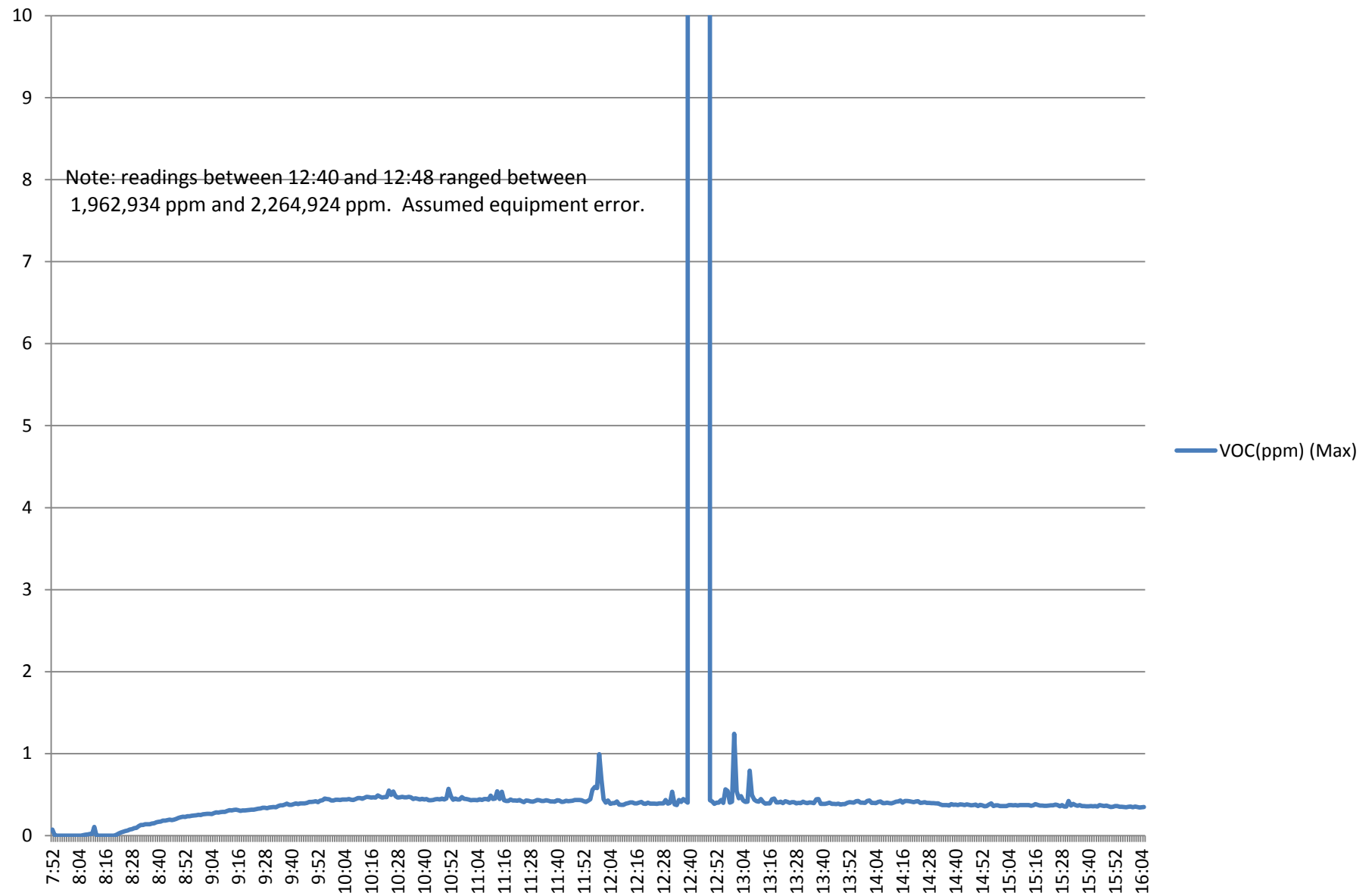
ec: Rita Gurewitch, Village of Manchester
Charles Hampton, Day Environmental, Inc.
Ray Kampff, Day Environmental, Inc.
Bernette Schilling, NYSDEC

Steven Berninger, NYSDOH
Frank Sowers, NYSDEC
Justin Deming, NYSDOH

147 STATE STREET MANCHESTER, NY
Particulate readings (mg/m3) - June 20, 2018 - West Site Boundary



147 STATE STREET MANCHESTER, NY
CAMP VOC Readings (ppm) - June 20, 2018 - West Property Boundary



day

SHEET _____ OF _____

DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

1563 LYELL AVENUE, ROCHESTER, NY 14606

CAMP (DAY)
08:25 - START

<u>PID</u>	<u>Particulate</u>	<u>Time</u>			
0.0	0.005	8:43	0.0	0.000	12:53
0.0	0.009	8:59	0.9	0.000	1:08
0.0	0.002	9:15	0.3	0.000	1:23
0.0	0.004	9:31	0.1	0.000	1:38
0.0	0.003	9:46	0.0	0.000	1:53
0.0	0.010	10:01	0.0	0.000	2:08
0.0	0.10	10:16	0.0	0.000	14:22
0.0	0.002	10:31	0.0	0.000	14:53
0.0	0.000	10:53	← change battery		
0.0	0.000	11:08	0.0	0.003	15:18
0.0	0.000	11:23	0.0	0.000	15:33
0.0	0.000	11:38			
0.0	0.000	11:53	15:35 - CAMP END		
0.0	0.000	12:08	(Drilling complete)		
0.0	0.001	12:23			
0.0	0.000	12:38			

CALC BY: _____ DATE: 6/20/18 PROJECT NO.: 54745-18CH'KD BY: _____ DATE: _____ DESCRIPTION: CAMP (DAY) Down wind

TrakPro	Version	4.7 ASCII	Data	File
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Model:	DustTrak II		
Model	Number:	8530	
Serial	Number:	8530162809	
Test	ID:	1	
Test	Abbreviation	MANUAL_001	
Start	Date:	6/20/2018	
Start	Time:	8:15:02	
Duration	(dd:hh:mm)	0:07:47:00	
Log	Interval (mm:ss):		1:00
Number	of points:		467
Notes:			

Statistics	Channel:	AEROSOL	
	Units:	mg/m^3	
	Average:	0.011	
	Minimum:	0.006	
	Time of	Minimum:	8:22:02
	Date of	Minimum:	6/20/2018
	Maximum:	0.022	
	Time of	Maximum:	11:56:02
	Date of	Maximum:	6/20/2018

Calibration	Sensor:	AEROSOL	
	Cal. date		4/30/2018

Date	Time	AEROSOL
MM/dd/yyyy	hh:mm:ss	mg/m^3
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6/20/2018	12:58:02	0.019
6/20/2018	12:59:02	0.017
6/20/2018	13:00:02	0.014
6/20/2018	13:01:02	0.015
6/20/2018	13:02:02	0.014
6/20/2018	13:03:02	0.015
6/20/2018	13:04:02	0.014
6/20/2018	13:05:02	0.016
6/20/2018	13:06:02	0.013
6/20/2018	13:07:02	0.012
6/20/2018	13:08:02	0.012
6/20/2018	13:09:02	0.016
6/20/2018	13:10:02	0.012
6/20/2018	13:11:02	0.012
6/20/2018	13:12:02	0.012
6/20/2018	13:13:02	0.013
6/20/2018	13:14:02	0.012
6/20/2018	13:15:02	0.014

6/20/2018	13:16:02	0.012
6/20/2018	13:17:02	0.012
6/20/2018	13:18:02	0.012
6/20/2018	13:19:02	0.011
6/20/2018	13:20:02	0.012
6/20/2018	13:21:02	0.013
6/20/2018	13:22:02	0.012
6/20/2018	13:23:02	0.012
6/20/2018	13:24:02	0.012
6/20/2018	13:25:02	0.012
6/20/2018	13:26:02	0.012
6/20/2018	13:27:02	0.012
6/20/2018	13:28:02	0.012
6/20/2018	13:29:02	0.012
6/20/2018	13:30:02	0.012
6/20/2018	13:31:02	0.012
6/20/2018	13:32:02	0.012
6/20/2018	13:33:02	0.014
6/20/2018	13:34:02	0.011
6/20/2018	13:35:02	0.012
6/20/2018	13:36:02	0.011
6/20/2018	13:37:02	0.011
6/20/2018	13:38:02	0.011
6/20/2018	13:39:02	0.011
6/20/2018	13:40:02	0.012
6/20/2018	13:41:02	0.011
6/20/2018	13:42:02	0.011
6/20/2018	13:43:02	0.01
6/20/2018	13:44:02	0.01
6/20/2018	13:45:02	0.01
6/20/2018	13:46:02	0.01
6/20/2018	13:47:02	0.01
6/20/2018	13:48:02	0.01
6/20/2018	13:49:02	0.011
6/20/2018	13:50:02	0.012
6/20/2018	13:51:02	0.013
6/20/2018	13:52:02	0.012
6/20/2018	13:53:02	0.012
6/20/2018	13:54:02	0.011
6/20/2018	13:55:02	0.01
6/20/2018	13:56:02	0.012
6/20/2018	13:57:02	0.013
6/20/2018	13:58:02	0.013
6/20/2018	13:59:02	0.011
6/20/2018	14:00:02	0.011
6/20/2018	14:01:02	0.011
6/20/2018	14:02:02	0.011

6/20/2018	14:03:02	0.011
6/20/2018	14:04:02	0.011
6/20/2018	14:05:02	0.01
6/20/2018	14:06:02	0.01
6/20/2018	14:07:02	0.01
6/20/2018	14:08:02	0.011
6/20/2018	14:09:02	0.011
6/20/2018	14:10:02	0.011
6/20/2018	14:11:02	0.011
6/20/2018	14:12:02	0.01
6/20/2018	14:13:02	0.011
6/20/2018	14:14:02	0.01
6/20/2018	14:15:02	0.01
6/20/2018	14:16:02	0.011
6/20/2018	14:17:02	0.011
6/20/2018	14:18:02	0.011
6/20/2018	14:19:02	0.011
6/20/2018	14:20:02	0.011
6/20/2018	14:21:02	0.011
6/20/2018	14:22:02	0.012
6/20/2018	14:23:02	0.011
6/20/2018	14:24:02	0.011
6/20/2018	14:25:02	0.011
6/20/2018	14:26:02	0.01
6/20/2018	14:27:02	0.011
6/20/2018	14:28:02	0.011
6/20/2018	14:29:02	0.011
6/20/2018	14:30:02	0.011
6/20/2018	14:31:02	0.01
6/20/2018	14:32:02	0.011
6/20/2018	14:33:02	0.01
6/20/2018	14:34:02	0.01
6/20/2018	14:35:02	0.01
6/20/2018	14:36:02	0.01
6/20/2018	14:37:02	0.01
6/20/2018	14:38:02	0.01
6/20/2018	14:39:02	0.01
6/20/2018	14:40:02	0.01
6/20/2018	14:41:02	0.009
6/20/2018	14:42:02	0.01
6/20/2018	14:43:02	0.009
6/20/2018	14:44:02	0.009
6/20/2018	14:45:02	0.009
6/20/2018	14:46:02	0.009
6/20/2018	14:47:02	0.009
6/20/2018	14:48:02	0.009
6/20/2018	14:49:02	0.009

6/20/2018	14:50:02	0.009
6/20/2018	14:51:02	0.009
6/20/2018	14:52:02	0.009
6/20/2018	14:53:02	0.009
6/20/2018	14:54:02	0.009
6/20/2018	14:55:02	0.01
6/20/2018	14:56:02	0.011
6/20/2018	14:57:02	0.01
6/20/2018	14:58:02	0.009
6/20/2018	14:59:02	0.009
6/20/2018	15:00:02	0.009
6/20/2018	15:01:02	0.01
6/20/2018	15:02:02	0.012
6/20/2018	15:03:02	0.01
6/20/2018	15:04:02	0.01
6/20/2018	15:05:02	0.01
6/20/2018	15:06:02	0.009
6/20/2018	15:07:02	0.009
6/20/2018	15:08:02	0.01
6/20/2018	15:09:02	0.009
6/20/2018	15:10:02	0.009
6/20/2018	15:11:02	0.01
6/20/2018	15:12:02	0.009
6/20/2018	15:13:02	0.01
6/20/2018	15:14:02	0.011
6/20/2018	15:15:02	0.011
6/20/2018	15:16:02	0.01
6/20/2018	15:17:02	0.01
6/20/2018	15:18:02	0.009
6/20/2018	15:19:02	0.01
6/20/2018	15:20:02	0.009
6/20/2018	15:21:02	0.009
6/20/2018	15:22:02	0.01
6/20/2018	15:23:02	0.01
6/20/2018	15:24:02	0.01
6/20/2018	15:25:02	0.012
6/20/2018	15:26:02	0.011
6/20/2018	15:27:02	0.01
6/20/2018	15:28:02	0.01
6/20/2018	15:29:02	0.013
6/20/2018	15:30:02	0.01
6/20/2018	15:31:02	0.012
6/20/2018	15:32:02	0.01
6/20/2018	15:33:02	0.01
6/20/2018	15:34:02	0.01
6/20/2018	15:35:02	0.01
6/20/2018	15:36:02	0.01

6/20/2018	15:37:02	0.01
6/20/2018	15:38:02	0.01
6/20/2018	15:39:02	0.01
6/20/2018	15:40:02	0.01
6/20/2018	15:41:02	0.01
6/20/2018	15:42:02	0.012
6/20/2018	15:43:02	0.011
6/20/2018	15:44:02	0.011
6/20/2018	15:45:02	0.01
6/20/2018	15:46:02	0.01
6/20/2018	15:47:02	0.01
6/20/2018	15:48:02	0.01
6/20/2018	15:49:02	0.01
6/20/2018	15:50:02	0.01
6/20/2018	15:51:02	0.011
6/20/2018	15:52:02	0.01
6/20/2018	15:53:02	0.01
6/20/2018	15:54:02	0.011
6/20/2018	15:55:02	0.011
6/20/2018	15:56:02	0.01
6/20/2018	15:57:02	0.01
6/20/2018	15:58:02	0.01
6/20/2018	15:59:02	0.011
6/20/2018	16:00:02	0.01
6/20/2018	16:01:02	0.011
6/20/2018	16:02:02	0.014

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18/06/19

11:49

Summary

Unit	Name	MiniRAE
Unit	SN	592-908152
Unit	Firmware	Ver

Running	Mode	Hygiene
Measure	Type	Avg
Datalog	Mode	Continuous
Datalog	Type	Auto
Diagnostic	Mode	No
Stop	Reason	Power

Site	ID	12345678
User	ID	12345678

Begin	6/19/2018	11:49:32
End	6/19/2018	11:49:45
Sample	Period(s)	60
Number	of	Records

Sensor	VOC(ppm)	
Span	100	
Span	2	N/A
Low	Alarm	50
High	Alarm	100
Over	Alarm	15000
STEL	Alarm	25
TWA	Alarm	10
Measurement	Gas	Isobutylene
Calibration	Time	6/19/2018

Datalog

0 record.

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18/06/20

7:51

Summary

Unit	Name	MiniRAE
Unit	SN	592-908152

Unit	Firmware	Ver

Running	Mode	Hygiene
Measure	Type	Avg
Datalog	Mode	Continuous
Datalog	Type	Auto
Diagnostic	Mode	No
Stop	Reason	Pause

Site	ID	12345678
User	ID	12345678

Begin	6/20/2018	7:51:00
End	6/20/2018	16:05:02
Sample	Period(s)	60
Number	of	Records

Sensor	VOC(ppm)	
Span	100	
Span	2	N/A
Low	Alarm	50
High	Alarm	100
Over	Alarm	15000
STEL	Alarm	25
TWA	Alarm	10
Measurement	Gas	Isobutylene
Calibration	Time	6/19/2018
Peak	2415919.105	
Min	0	
Average	41162.255	

Datalog	VOC(ppm)	VOC(ppm)
	Date/Time	(Avg)
Index		
	1	6/20/2018 7:52:00
	2	6/20/2018 7:53:00
	3	6/20/2018 7:54:00
	4	6/20/2018 7:55:00
	5	6/20/2018 7:56:00
	6	6/20/2018 7:57:00
	7	6/20/2018 7:58:00
	8	6/20/2018 7:59:00
	9	6/20/2018 8:00:00
	10	6/20/2018 8:01:00
	11	6/20/2018 8:02:00
	12	6/20/2018 8:03:00

13	6/20/2018	8:04:00
14	6/20/2018	8:05:00
15	6/20/2018	8:06:00
16	6/20/2018	8:07:00
17	6/20/2018	8:08:00
18	6/20/2018	8:09:00
19	6/20/2018	8:10:00
20	6/20/2018	8:11:00
21	6/20/2018	8:12:00
22	6/20/2018	8:13:00
23	6/20/2018	8:14:00
24	6/20/2018	8:15:00
25	6/20/2018	8:16:00
26	6/20/2018	8:17:00
27	6/20/2018	8:18:00
28	6/20/2018	8:19:00
29	6/20/2018	8:20:00
30	6/20/2018	8:21:00
31	6/20/2018	8:22:00
32	6/20/2018	8:23:00
33	6/20/2018	8:24:00
34	6/20/2018	8:25:00
35	6/20/2018	8:26:00
36	6/20/2018	8:27:00
37	6/20/2018	8:28:00
38	6/20/2018	8:29:00
39	6/20/2018	8:30:00
40	6/20/2018	8:31:00
41	6/20/2018	8:32:00
42	6/20/2018	8:33:00
43	6/20/2018	8:34:00
44	6/20/2018	8:35:00
45	6/20/2018	8:36:00
46	6/20/2018	8:37:00
47	6/20/2018	8:38:00
48	6/20/2018	8:39:00
49	6/20/2018	8:40:00
50	6/20/2018	8:41:00
51	6/20/2018	8:42:00
52	6/20/2018	8:43:00
53	6/20/2018	8:44:00
54	6/20/2018	8:45:00
55	6/20/2018	8:46:00
56	6/20/2018	8:47:00
57	6/20/2018	8:48:00
58	6/20/2018	8:49:00
59	6/20/2018	8:50:00

60	6/20/2018	8:51:00
61	6/20/2018	8:52:00
62	6/20/2018	8:53:00
63	6/20/2018	8:54:00
64	6/20/2018	8:55:00
65	6/20/2018	8:56:00
66	6/20/2018	8:57:00
67	6/20/2018	8:58:00
68	6/20/2018	8:59:00
69	6/20/2018	9:00:00
70	6/20/2018	9:01:00
71	6/20/2018	9:02:00
72	6/20/2018	9:03:00
73	6/20/2018	9:04:00
74	6/20/2018	9:05:00
75	6/20/2018	9:06:00
76	6/20/2018	9:07:00
77	6/20/2018	9:08:00
78	6/20/2018	9:09:00
79	6/20/2018	9:10:00
80	6/20/2018	9:11:00
81	6/20/2018	9:12:00
82	6/20/2018	9:13:00
83	6/20/2018	9:14:00
84	6/20/2018	9:15:00
85	6/20/2018	9:16:00
86	6/20/2018	9:17:00
87	6/20/2018	9:18:00
88	6/20/2018	9:19:00
89	6/20/2018	9:20:00
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91	6/20/2018	9:22:00
92	6/20/2018	9:23:00
93	6/20/2018	9:24:00
94	6/20/2018	9:25:00
95	6/20/2018	9:26:00
96	6/20/2018	9:27:00
97	6/20/2018	9:28:00
98	6/20/2018	9:29:00
99	6/20/2018	9:30:00
100	6/20/2018	9:31:00
101	6/20/2018	9:32:00
102	6/20/2018	9:33:00
103	6/20/2018	9:34:00
104	6/20/2018	9:35:00
105	6/20/2018	9:36:00
106	6/20/2018	9:37:00

107	6/20/2018	9:38:00
108	6/20/2018	9:39:00
109	6/20/2018	9:40:00
110	6/20/2018	9:41:00
111	6/20/2018	9:42:00
112	6/20/2018	9:43:00
113	6/20/2018	9:44:00
114	6/20/2018	9:45:00
115	6/20/2018	9:46:00
116	6/20/2018	9:47:00
117	6/20/2018	9:48:00
118	6/20/2018	9:49:00
119	6/20/2018	9:50:00
120	6/20/2018	9:51:00
121	6/20/2018	9:52:00
122	6/20/2018	9:53:00
123	6/20/2018	9:54:00
124	6/20/2018	9:55:00
125	6/20/2018	9:56:00
126	6/20/2018	9:57:00
127	6/20/2018	9:58:00
128	6/20/2018	9:59:00
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130	6/20/2018	10:01:00
131	6/20/2018	10:02:00
132	6/20/2018	10:03:00
133	6/20/2018	10:04:00
134	6/20/2018	10:05:00
135	6/20/2018	10:06:00
136	6/20/2018	10:07:00
137	6/20/2018	10:08:00
138	6/20/2018	10:09:00
139	6/20/2018	10:10:00
140	6/20/2018	10:11:00
141	6/20/2018	10:12:00
142	6/20/2018	10:13:00
143	6/20/2018	10:14:00
144	6/20/2018	10:15:00
145	6/20/2018	10:16:00
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147	6/20/2018	10:18:00
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149	6/20/2018	10:20:00
150	6/20/2018	10:21:00
151	6/20/2018	10:22:00
152	6/20/2018	10:23:00
153	6/20/2018	10:24:00

154	6/20/2018	10:25:00
155	6/20/2018	10:26:00
156	6/20/2018	10:27:00
157	6/20/2018	10:28:00
158	6/20/2018	10:29:00
159	6/20/2018	10:30:00
160	6/20/2018	10:31:00
161	6/20/2018	10:32:00
162	6/20/2018	10:33:00
163	6/20/2018	10:34:00
164	6/20/2018	10:35:00
165	6/20/2018	10:36:00
166	6/20/2018	10:37:00
167	6/20/2018	10:38:00
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169	6/20/2018	10:40:00
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174	6/20/2018	10:45:00
175	6/20/2018	10:46:00
176	6/20/2018	10:47:00
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194	6/20/2018	11:05:00
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196	6/20/2018	11:07:00
197	6/20/2018	11:08:00
198	6/20/2018	11:09:00
199	6/20/2018	11:10:00
200	6/20/2018	11:11:00

201	6/20/2018	11:12:00
202	6/20/2018	11:13:00
203	6/20/2018	11:14:00
204	6/20/2018	11:15:00
205	6/20/2018	11:16:00
206	6/20/2018	11:17:00
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210	6/20/2018	11:21:00
211	6/20/2018	11:22:00
212	6/20/2018	11:23:00
213	6/20/2018	11:24:00
214	6/20/2018	11:25:00
215	6/20/2018	11:26:00
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218	6/20/2018	11:29:00
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226	6/20/2018	11:37:00
227	6/20/2018	11:38:00
228	6/20/2018	11:39:00
229	6/20/2018	11:40:00
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243	6/20/2018	11:54:00
244	6/20/2018	11:55:00
245	6/20/2018	11:56:00
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247	6/20/2018	11:58:00

248	6/20/2018	11:59:00
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250	6/20/2018	12:01:00
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252	6/20/2018	12:03:00
253	6/20/2018	12:04:00
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260	6/20/2018	12:11:00
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262	6/20/2018	12:13:00
263	6/20/2018	12:14:00
264	6/20/2018	12:15:00
265	6/20/2018	12:16:00
266	6/20/2018	12:17:00
267	6/20/2018	12:18:00
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269	6/20/2018	12:20:00
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284	6/20/2018	12:35:00
285	6/20/2018	12:36:00
286	6/20/2018	12:37:00
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289	6/20/2018	12:40:00
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291	6/20/2018	12:42:00
292	6/20/2018	12:43:00
293	6/20/2018	12:44:00
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341	6/20/2018	13:32:00
342	6/20/2018	13:33:00
343	6/20/2018	13:34:00
344	6/20/2018	13:35:00
345	6/20/2018	13:36:00
346	6/20/2018	13:37:00
347	6/20/2018	13:38:00
348	6/20/2018	13:39:00
349	6/20/2018	13:40:00
350	6/20/2018	13:41:00
351	6/20/2018	13:42:00
352	6/20/2018	13:43:00
353	6/20/2018	13:44:00
354	6/20/2018	13:45:00
355	6/20/2018	13:46:00
356	6/20/2018	13:47:00

357	6/20/2018	13:48:00
358	6/20/2018	13:49:00
359	6/20/2018	13:50:00
360	6/20/2018	13:51:00
361	6/20/2018	13:52:00
362	6/20/2018	13:53:00
363	6/20/2018	13:54:00
364	6/20/2018	13:55:00
365	6/20/2018	13:56:00
366	6/20/2018	13:57:00
367	6/20/2018	13:58:00
368	6/20/2018	13:59:00
369	6/20/2018	14:00:00
370	6/20/2018	14:01:00
371	6/20/2018	14:02:00
372	6/20/2018	14:03:00
373	6/20/2018	14:04:00
374	6/20/2018	14:05:00
375	6/20/2018	14:06:00
376	6/20/2018	14:07:00
377	6/20/2018	14:08:00
378	6/20/2018	14:09:00
379	6/20/2018	14:10:00
380	6/20/2018	14:11:00
381	6/20/2018	14:12:00
382	6/20/2018	14:13:00
383	6/20/2018	14:14:00
384	6/20/2018	14:15:00
385	6/20/2018	14:16:00
386	6/20/2018	14:17:00
387	6/20/2018	14:18:00
388	6/20/2018	14:19:00
389	6/20/2018	14:20:00
390	6/20/2018	14:21:00
391	6/20/2018	14:22:00
392	6/20/2018	14:23:00
393	6/20/2018	14:24:00
394	6/20/2018	14:25:00
395	6/20/2018	14:26:00
396	6/20/2018	14:27:00
397	6/20/2018	14:28:00
398	6/20/2018	14:29:00
399	6/20/2018	14:30:00
400	6/20/2018	14:31:00
401	6/20/2018	14:32:00
402	6/20/2018	14:33:00
403	6/20/2018	14:34:00

404	6/20/2018	14:35:00
405	6/20/2018	14:36:00
406	6/20/2018	14:37:00
407	6/20/2018	14:38:00
408	6/20/2018	14:39:00
409	6/20/2018	14:40:00
410	6/20/2018	14:41:00
411	6/20/2018	14:42:00
412	6/20/2018	14:43:00
413	6/20/2018	14:44:00
414	6/20/2018	14:45:00
415	6/20/2018	14:46:00
416	6/20/2018	14:47:00
417	6/20/2018	14:48:00
418	6/20/2018	14:49:00
419	6/20/2018	14:50:00
420	6/20/2018	14:51:00
421	6/20/2018	14:52:00
422	6/20/2018	14:53:00
423	6/20/2018	14:54:00
424	6/20/2018	14:55:00
425	6/20/2018	14:56:00
426	6/20/2018	14:57:00
427	6/20/2018	14:58:00
428	6/20/2018	14:59:00
429	6/20/2018	15:00:00
430	6/20/2018	15:01:00
431	6/20/2018	15:02:00
432	6/20/2018	15:03:00
433	6/20/2018	15:04:00
434	6/20/2018	15:05:00
435	6/20/2018	15:06:00
436	6/20/2018	15:07:00
437	6/20/2018	15:08:00
438	6/20/2018	15:09:00
439	6/20/2018	15:10:00
440	6/20/2018	15:11:00
441	6/20/2018	15:12:00
442	6/20/2018	15:13:00
443	6/20/2018	15:14:00
444	6/20/2018	15:15:00
445	6/20/2018	15:16:00
446	6/20/2018	15:17:00
447	6/20/2018	15:18:00
448	6/20/2018	15:19:00
449	6/20/2018	15:20:00
450	6/20/2018	15:21:00

451	6/20/2018	15:22:00
452	6/20/2018	15:23:00
453	6/20/2018	15:24:00
454	6/20/2018	15:25:00
455	6/20/2018	15:26:00
456	6/20/2018	15:27:00
457	6/20/2018	15:28:00
458	6/20/2018	15:29:00
459	6/20/2018	15:30:00
460	6/20/2018	15:31:00
461	6/20/2018	15:32:00
462	6/20/2018	15:33:00
463	6/20/2018	15:34:00
464	6/20/2018	15:35:00
465	6/20/2018	15:36:00
466	6/20/2018	15:37:00
467	6/20/2018	15:38:00
468	6/20/2018	15:39:00
469	6/20/2018	15:40:00
470	6/20/2018	15:41:00
471	6/20/2018	15:42:00
472	6/20/2018	15:43:00
473	6/20/2018	15:44:00
474	6/20/2018	15:45:00
475	6/20/2018	15:46:00
476	6/20/2018	15:47:00
477	6/20/2018	15:48:00
478	6/20/2018	15:49:00
479	6/20/2018	15:50:00
480	6/20/2018	15:51:00
481	6/20/2018	15:52:00
482	6/20/2018	15:53:00
483	6/20/2018	15:54:00
484	6/20/2018	15:55:00
485	6/20/2018	15:56:00
486	6/20/2018	15:57:00
487	6/20/2018	15:58:00
488	6/20/2018	15:59:00
489	6/20/2018	16:00:00
490	6/20/2018	16:01:00
491	6/20/2018	16:02:00
492	6/20/2018	16:03:00
493	6/20/2018	16:04:00
494	6/20/2018	16:05:00

=====

18/06/20

17:20

Summary

Unit

Unit

Unit

Name

MiniRAE

SN

592-908152

Firmware

Ver

Running

Mode

Hygiene

Measure

Type

Avg

Datalog

Mode

Continuous

Datalog

Type

Auto

Diagnostic

Mode

No

Stop

Reason

Power

Site

ID

12345678

User

ID

12345678

Begin

6/20/2018

17:20:42

End

6/20/2018

17:21:15

Sample

Period(s)

60

Number

of

Records

Sensor

VOC(ppm)

Span

100

Span

2 N/A

Low

Alarm

50

High

Alarm

100

Over

Alarm

15000

STEL

Alarm

25

TWA

Alarm

10

Measurement

Gas

Isobutylene

Calibration

Time

6/19/2018

Datalog

0 record.

3000(PGM-7320)

V1.10C

Mode	
Max	Real

Down

0

11:48

3000(PGM-7320)

V1.10C

Mode

Max

Real

in

Communication

Mode

494

11:48

VOC(ppm)

(Max)

(Real)

0.035

0.072

0.009

0

0.008

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0	0	0
0	0	0
0.001	0.006	0.005
0.007	0.012	0.011
0.01	0.014	0.009
0.015	0.019	0.017
0.016	0.02	0
0.007	0.105	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0.004	0.012	0.012
0.02	0.026	0.026
0.03	0.038	0.038
0.038	0.046	0.046
0.05	0.056	0.056
0.059	0.062	0.062
0.066	0.072	0.071
0.073	0.08	0.079
0.083	0.09	0.089
0.09	0.094	0.094
0.104	0.115	0.114
0.122	0.129	0.129
0.123	0.13	0.13
0.132	0.139	0.136
0.134	0.138	0.132
0.135	0.139	0.139
0.142	0.147	0.144
0.147	0.15	0.15
0.155	0.161	0.161
0.161	0.167	0.165
0.166	0.17	0.167
0.174	0.181	0.172
0.174	0.183	0.179
0.183	0.188	0.188
0.19	0.194	0.187
0.186	0.189	0.187
0.189	0.194	0.192
0.199	0.203	0.202
0.21	0.216	0.214
0.216	0.224	0.224

0.225	0.23	0.223
0.222	0.228	0.227
0.231	0.236	0.236
0.231	0.235	0.235
0.236	0.241	0.238
0.238	0.244	0.244
0.244	0.247	0.247
0.247	0.252	0.246
0.246	0.25	0.248
0.253	0.259	0.256
0.258	0.262	0.257
0.26	0.265	0.261
0.261	0.266	0.259
0.258	0.262	0.262
0.269	0.275	0.275
0.272	0.283	0.269
0.274	0.279	0.274
0.279	0.286	0.286
0.283	0.288	0.285
0.283	0.29	0.29
0.293	0.301	0.301
0.302	0.31	0.308
0.297	0.308	0.299
0.304	0.312	0.3
0.307	0.315	0.306
0.302	0.311	0.297
0.299	0.302	0.3
0.3	0.306	0.302
0.301	0.308	0.303
0.305	0.309	0.305
0.306	0.312	0.304
0.31	0.316	0.309
0.309	0.315	0.31
0.314	0.32	0.317
0.319	0.327	0.327
0.323	0.329	0.325
0.33	0.339	0.339
0.327	0.338	0.328
0.329	0.334	0.328
0.334	0.342	0.335
0.337	0.345	0.341
0.338	0.348	0.343
0.341	0.345	0.343
0.346	0.36	0.351
0.357	0.369	0.365
0.362	0.368	0.367
0.372	0.378	0.374

0.366	0.39	0.367
0.365	0.376	0.366
0.366	0.376	0.368
0.374	0.383	0.375
0.379	0.391	0.384
0.372	0.383	0.376
0.381	0.391	0.384
0.385	0.393	0.387
0.381	0.393	0.377
0.389	0.398	0.397
0.399	0.411	0.393
0.396	0.409	0.409
0.399	0.412	0.401
0.404	0.419	0.392
0.397	0.408	0.405
0.409	0.424	0.424
0.421	0.43	0.43
0.429	0.451	0.435
0.428	0.446	0.42
0.429	0.443	0.426
0.42	0.428	0.415
0.417	0.427	0.42
0.426	0.437	0.431
0.429	0.437	0.428
0.429	0.434	0.426
0.431	0.441	0.423
0.429	0.439	0.429
0.432	0.439	0.433
0.433	0.446	0.428
0.425	0.436	0.434
0.424	0.435	0.419
0.432	0.446	0.443
0.442	0.457	0.433
0.444	0.458	0.448
0.44	0.45	0.448
0.446	0.461	0.461
0.459	0.473	0.472
0.455	0.47	0.445
0.449	0.462	0.458
0.452	0.467	0.439
0.45	0.463	0.461
0.466	0.491	0.471
0.459	0.475	0.441
0.451	0.462	0.46
0.461	0.47	0.458
0.457	0.469	0.467
0.494	0.55	0.492

0.469	0.495	0.474
0.472	0.538	0.453
0.459	0.482	0.46
0.456	0.463	0.46
0.455	0.467	0.452
0.459	0.471	0.457
0.458	0.466	0.455
0.456	0.466	0.458
0.46	0.472	0.461
0.45	0.465	0.438
0.433	0.445	0.445
0.446	0.455	0.449
0.433	0.449	0.427
0.429	0.439	0.428
0.437	0.45	0.44
0.433	0.439	0.433
0.434	0.446	0.431
0.427	0.431	0.423
0.425	0.431	0.427
0.428	0.434	0.434
0.436	0.444	0.432
0.432	0.445	0.426
0.43	0.44	0.434
0.439	0.451	0.446
0.424	0.441	0.426
0.434	0.451	0.448
0.45	0.57	0.473
0.426	0.477	0.413
0.421	0.436	0.435
0.442	0.453	0.434
0.425	0.441	0.419
0.432	0.441	0.436
0.439	0.468	0.436
0.43	0.449	0.442
0.434	0.446	0.428
0.43	0.44	0.421
0.423	0.432	0.425
0.429	0.435	0.428
0.428	0.435	0.425
0.425	0.431	0.426
0.431	0.442	0.433
0.43	0.433	0.432
0.434	0.447	0.439
0.436	0.446	0.434
0.434	0.438	0.437
0.44	0.488	0.437
0.433	0.446	0.436

0.435	0.451	0.437
0.442	0.54	0.444
0.435	0.445	0.44
0.448	0.535	0.409
0.418	0.43	0.416
0.416	0.422	0.422
0.417	0.422	0.419
0.425	0.44	0.423
0.422	0.427	0.423
0.418	0.429	0.411
0.418	0.425	0.421
0.422	0.433	0.413
0.41	0.418	0.405
0.405	0.407	0.407
0.415	0.427	0.418
0.415	0.426	0.418
0.408	0.417	0.412
0.406	0.413	0.409
0.405	0.423	0.423
0.417	0.434	0.428
0.41	0.43	0.41
0.412	0.422	0.413
0.413	0.422	0.413
0.417	0.43	0.414
0.411	0.426	0.408
0.406	0.417	0.405
0.406	0.415	0.405
0.406	0.412	0.402
0.41	0.43	0.413
0.406	0.427	0.395
0.401	0.409	0.401
0.403	0.413	0.412
0.414	0.424	0.404
0.407	0.418	0.405
0.412	0.421	0.419
0.418	0.425	0.425
0.425	0.434	0.418
0.421	0.434	0.434
0.429	0.435	0.427
0.416	0.432	0.41
0.412	0.419	0.405
0.402	0.411	0.407
0.409	0.424	0.423
0.411	0.444	0.438
0.447	0.557	0.506
0.466	0.594	0.399
0.444	0.578	0.489

0.47	0.994	0.739
0.41	0.685	0.384
0.389	0.444	0.401
0.383	0.4	0.385
0.392	0.427	0.379
0.38	0.385	0.381
0.386	0.395	0.381
0.38	0.394	0.377
0.38	0.416	0.369
0.371	0.377	0.37
0.372	0.375	0.373
0.373	0.375	0.375
0.379	0.388	0.388
0.391	0.396	0.393
0.388	0.403	0.39
0.392	0.405	0.39
0.387	0.393	0.388
0.388	0.392	0.386
0.392	0.401	0.394
0.4	0.409	0.392
0.381	0.39	0.38
0.379	0.386	0.382
0.391	0.4	0.392
0.38	0.39	0.374
0.378	0.39	0.39
0.373	0.389	0.373
0.373	0.385	0.385
0.38	0.392	0.386
0.383	0.391	0.378
0.385	0.393	0.388
0.386	0.435	0.37
0.377	0.39	0.381
0.385	0.397	0.397
0.389	0.535	0.341
0.361	0.381	0.358
0.362	0.372	0.368
0.386	0.433	0.371
0.365	0.409	0.358
0.375	0.445	0.357
0.378	0.421	0.358
0.372	0.402	0.353
0.257	2063597.569	2181038
2113929.217	2264924.161	2415919
2281701.377	2080374.785	2248147
1979711.489	2046820.353	2248147
2248146.945	1962934.273	2231370
1962934.273	1962934.273	2164261

2164260.865	2080374.785	2281701
2181038.081	2130706.433	2264924
2046820.353	2164260.865	2298479
2214592.513	0.431	0.388
0.393	0.416	0.388
0.377	0.386	0.382
0.383	0.4	0.374
0.38	0.401	0.368
0.392	0.434	0.383
0.389	0.399	0.384
0.396	0.564	0.564
0.398	0.544	0.391
0.383	0.4	0.395
0.389	0.413	0.399
0.59	1.24	0.461
0.44	0.541	0.445
0.405	0.454	0.405
0.423	0.481	0.393
0.404	0.429	0.396
0.394	0.41	0.395
0.394	0.414	0.385
0.437	0.792	0.473
0.441	0.497	0.434
0.411	0.437	0.399
0.393	0.419	0.39
0.393	0.412	0.408
0.413	0.446	0.407
0.401	0.409	0.387
0.38	0.39	0.388
0.386	0.393	0.384
0.381	0.391	0.391
0.405	0.444	0.419
0.398	0.452	0.374
0.387	0.403	0.403
0.391	0.404	0.385
0.397	0.413	0.396
0.382	0.395	0.384
0.392	0.419	0.412
0.397	0.409	0.392
0.389	0.399	0.399
0.395	0.406	0.387
0.384	0.408	0.375
0.378	0.393	0.389
0.387	0.398	0.397
0.387	0.396	0.391
0.394	0.413	0.393
0.391	0.401	0.385

0.389	0.394	0.394
0.397	0.404	0.394
0.388	0.4	0.382
0.389	0.396	0.387
0.407	0.443	0.443
0.402	0.447	0.386
0.382	0.387	0.386
0.379	0.387	0.373
0.375	0.386	0.373
0.382	0.393	0.384
0.38	0.4	0.376
0.378	0.387	0.375
0.378	0.385	0.38
0.378	0.382	0.377
0.379	0.389	0.372
0.371	0.377	0.373
0.374	0.382	0.376
0.376	0.383	0.375
0.385	0.397	0.386
0.395	0.407	0.396
0.394	0.405	0.392
0.394	0.4	0.39
0.407	0.418	0.407
0.404	0.423	0.392
0.391	0.4	0.395
0.392	0.401	0.389
0.393	0.399	0.394
0.408	0.421	0.417
0.41	0.428	0.392
0.393	0.398	0.392
0.393	0.399	0.392
0.389	0.395	0.394
0.399	0.409	0.409
0.407	0.416	0.394
0.391	0.396	0.39
0.389	0.394	0.393
0.393	0.401	0.39
0.387	0.396	0.388
0.387	0.391	0.391
0.396	0.402	0.402
0.401	0.413	0.404
0.398	0.416	0.416
0.409	0.428	0.398
0.396	0.401	0.394
0.408	0.422	0.407
0.409	0.423	0.421
0.404	0.419	0.401

0.403	0.413	0.403
0.4	0.408	0.4
0.4	0.417	0.416
0.397	0.419	0.395
0.392	0.397	0.392
0.392	0.4	0.391
0.398	0.408	0.396
0.391	0.399	0.394
0.387	0.399	0.385
0.388	0.395	0.383
0.376	0.394	0.37
0.38	0.391	0.39
0.379	0.392	0.369
0.371	0.38	0.368
0.365	0.372	0.362
0.364	0.372	0.367
0.365	0.372	0.356
0.357	0.366	0.359
0.365	0.383	0.369
0.367	0.374	0.366
0.367	0.377	0.368
0.364	0.371	0.369
0.368	0.38	0.374
0.37	0.378	0.37
0.364	0.372	0.368
0.37	0.38	0.361
0.365	0.376	0.361
0.361	0.369	0.369
0.365	0.373	0.359
0.36	0.377	0.356
0.356	0.361	0.359
0.369	0.374	0.37
0.358	0.37	0.348
0.352	0.358	0.354
0.355	0.359	0.358
0.36	0.378	0.358
0.354	0.392	0.369
0.371	0.359	0.356
0.358	0.37	0.366
0.357	0.369	0.348
0.354	0.36	0.353
0.352	0.36	0.354
0.355	0.361	0.354
0.352	0.359	0.355
0.363	0.371	0.359
0.365	0.372	0.363
0.365	0.369	0.367

0.361	0.372	0.36
0.358	0.365	0.36
0.362	0.372	0.372
0.365	0.373	0.363
0.362	0.373	0.361
0.362	0.373	0.371
0.36	0.371	0.354
0.357	0.362	0.36
0.363	0.368	0.366
0.368	0.384	0.362
0.364	0.374	0.367
0.358	0.366	0.362
0.358	0.365	0.355
0.354	0.362	0.36
0.356	0.364	0.364
0.358	0.365	0.358
0.361	0.369	0.367
0.358	0.368	0.357
0.364	0.378	0.36
0.356	0.371	0.35
0.349	0.358	0.353
0.354	0.372	0.346
0.348	0.355	0.347
0.347	0.353	0.353
0.364	0.421	0.353
0.355	0.365	0.364
0.356	0.386	0.356
0.36	0.373	0.362
0.352	0.362	0.352
0.356	0.371	0.354
0.352	0.36	0.358
0.35	0.359	0.347
0.352	0.357	0.349
0.349	0.357	0.35
0.352	0.359	0.352
0.354	0.358	0.354
0.354	0.36	0.354
0.35	0.355	0.345
0.355	0.372	0.36
0.35	0.366	0.347
0.352	0.359	0.358
0.357	0.365	0.353
0.348	0.358	0.345
0.345	0.349	0.344
0.346	0.35	0.347
0.354	0.36	0.36
0.346	0.359	0.342

0	0.003
0	0.003
0	0.003
0	0.004
0	0.006
0	0.008
0	0.012
0.001	0.016
0.001	0.021
0.001	0.026
0.001	0.032
0.001	0.038
0.002	0.046
0.002	0.054
0.002	0.063
0.002	0.072
0.003	0.081
0.003	0.089
0.003	0.097
0.004	0.105
0.004	0.112
0.004	0.12
0.005	0.127
0.005	0.133
0.005	0.14
0.006	0.147
0.006	0.153
0.006	0.158
0.007	0.162
0.007	0.167
0.008	0.172
0.008	0.178
0.009	0.184
0.009	0.189
0.01	0.195
0.01	0.2
0.011	0.205
0.011	0.21
0.012	0.215
0.012	0.219
0.013	0.223
0.013	0.228
0.014	0.233
0.014	0.237
0.015	0.241
0.015	0.244
0.016	0.248

0.016	0.251
0.017	0.254
0.018	0.257
0.018	0.26
0.019	0.264
0.019	0.268
0.02	0.272
0.021	0.275
0.021	0.279
0.022	0.282
0.023	0.285
0.023	0.287
0.024	0.29
0.025	0.293
0.025	0.295
0.026	0.297
0.026	0.3
0.027	0.301
0.028	0.303
0.028	0.306
0.029	0.307
0.03	0.31
0.03	0.311
0.031	0.313
0.032	0.315
0.033	0.318
0.033	0.321
0.034	0.324
0.035	0.327
0.035	0.331
0.036	0.335
0.037	0.34
0.038	0.343
0.039	0.347
0.039	0.349
0.04	0.353
0.041	0.356
0.042	0.359
0.043	0.363
0.043	0.366
0.044	0.368
0.045	0.372
0.046	0.375
0.047	0.379
0.047	0.382
0.048	0.383
0.049	0.385

0.05	0.389
0.051	0.393
0.052	0.398
0.053	0.401
0.054	0.404
0.054	0.406
0.055	0.409
0.056	0.412
0.057	0.415
0.058	0.417
0.059	0.419
0.06	0.42
0.061	0.422
0.062	0.425
0.062	0.427
0.063	0.426
0.064	0.427
0.065	0.427
0.066	0.429
0.067	0.431
0.068	0.434
0.069	0.437
0.07	0.438
0.071	0.44
0.072	0.441
0.073	0.443
0.074	0.446
0.075	0.447
0.076	0.449
0.077	0.45
0.077	0.454
0.078	0.457
0.079	0.46
0.08	0.46
0.081	0.461
0.082	0.461
0.083	0.459
0.084	0.46
0.085	0.46
0.086	0.461
0.087	0.461
0.088	0.459
0.089	0.459
0.09	0.459
0.091	0.457
0.092	0.454
0.093	0.45

0.093	0.448
0.094	0.446
0.095	0.444
0.096	0.442
0.097	0.44
0.098	0.439
0.099	0.437
0.1	0.435
0.101	0.434
0.102	0.433
0.102	0.434
0.103	0.435
0.104	0.434
0.105	0.435
0.106	0.434
0.107	0.433
0.108	0.434
0.109	0.435
0.11	0.436
0.111	0.435
0.112	0.434
0.112	0.434
0.113	0.434
0.114	0.433
0.115	0.433
0.116	0.432
0.117	0.429
0.118	0.431
0.119	0.431
0.12	0.431
0.121	0.432
0.121	0.432
0.122	0.432
0.123	0.432
0.124	0.433
0.125	0.432
0.126	0.432
0.127	0.431
0.128	0.431
0.129	0.431
0.129	0.43
0.13	0.428
0.131	0.427
0.132	0.426
0.133	0.424
0.134	0.422
0.135	0.421

0.135	0.419
0.136	0.417
0.137	0.415
0.138	0.416
0.139	0.417
0.14	0.416
0.141	0.416
0.141	0.415
0.142	0.414
0.143	0.414
0.144	0.413
0.145	0.413
0.146	0.412
0.147	0.413
0.147	0.411
0.148	0.41
0.149	0.41
0.15	0.41
0.151	0.409
0.152	0.408
0.153	0.409
0.153	0.409
0.154	0.411
0.155	0.412
0.156	0.412
0.157	0.412
0.158	0.412
0.159	0.413
0.16	0.415
0.161	0.422
0.161	0.422
0.162	0.427
0.164	0.45
0.165	0.448
0.166	0.447
0.166	0.444
0.167	0.442
0.168	0.438
0.169	0.435
0.17	0.433
0.17	0.431
0.171	0.428
0.172	0.425
0.173	0.421
0.174	0.413
0.174	0.412
0.175	0.406

0.176	0.382
0.177	0.383
0.178	0.382
0.178	0.382
0.179	0.383
0.18	0.383
0.181	0.383
0.182	0.384
0.182	0.384
0.183	0.386
0.184	0.386
0.185	0.386
0.186	0.386
0.186	0.385
0.187	0.385
0.188	0.384
0.189	0.383
0.19	0.384
0.19	0.381
0.191	0.378
0.192	0.378
0.193	0.377
0.193	0.375
0.194	0.373
0.195	0.371
0.196	0.37
4544.025	145402.883
9577.19	306464.131
14260.829	456340.569
18944.469	606217.006
23593.156	754974.963
28102.032	899258.995
32855.577	1051372.394
37574.169	1202367.315
42362.666	1355599.198
42362.667	1355599.199
42362.668	1355599.2
42362.668	1355599.202
42362.669	1355599.203
42362.67	1355599.204
42362.671	1355599.206
42362.672	1210196.692
42362.673	1049135.456
42362.674	899259.019
42362.674	749382.583
42362.675	600624.627
42362.676	456340.601

42362.677	304227.205
42362.678	153232.288
42362.679	0.408
42362.68	0.409
42362.68	0.409
42362.681	0.409
42362.682	0.416
42362.683	0.42
42362.684	0.421
42362.685	0.422
42362.686	0.411
42362.686	0.412
42362.687	0.412
42362.688	0.411
42362.689	0.406
42362.69	0.402
42362.69	0.403
42362.691	0.402
42362.692	0.402
42362.693	0.402
42362.694	0.403
42362.695	0.397
42362.695	0.395
42362.696	0.395
42362.697	0.395
42362.698	0.394
42362.699	0.392
42362.699	0.392
42362.7	0.392
42362.701	0.393
42362.702	0.393
42362.703	0.391
42362.704	0.392
42362.704	0.392
42362.705	0.391
42362.706	0.391
42362.707	0.395
42362.708	0.393
42362.708	0.393
42362.709	0.391
42362.71	0.39
42362.711	0.39
42362.712	0.39
42362.712	0.388
42362.713	0.387
42362.714	0.386
42362.715	0.385

42362.716	0.384
42362.716	0.383
42362.717	0.382
42362.718	0.382
42362.719	0.379
42362.72	0.38
42362.72	0.38
42362.721	0.382
42362.722	0.383
42362.723	0.384
42362.724	0.385
42362.724	0.386
42362.725	0.389
42362.726	0.39
42362.727	0.391
42362.728	0.392
42362.729	0.394
42362.729	0.396
42362.73	0.396
42362.731	0.396
42362.732	0.396
42362.733	0.396
42362.734	0.395
42362.734	0.395
42362.735	0.395
42362.736	0.396
42362.737	0.398
42362.738	0.396
42362.739	0.396
42362.739	0.397
42362.74	0.399
42362.741	0.4
42362.742	0.399
42362.743	0.4
42362.744	0.402
42362.744	0.402
42362.745	0.402
42362.746	0.402
42362.747	0.402
42362.748	0.402
42362.749	0.401
42362.749	0.398
42362.75	0.397
42362.751	0.396
42362.752	0.394
42362.752	0.39
42362.753	0.388

42362.754	0.385
42362.755	0.382
42362.755	0.378
42362.756	0.377
42362.757	0.375
42362.758	0.373
42362.759	0.372
42362.759	0.37
42362.76	0.369
42362.761	0.368
42362.762	0.368
42362.762	0.366
42362.763	0.366
42362.764	0.365
42362.765	0.365
42362.765	0.364
42362.766	0.365
42362.767	0.364
42362.768	0.363
42362.768	0.363
42362.769	0.362
42362.77	0.362
42362.771	0.361
42362.771	0.361
42362.772	0.359
42362.773	0.359
42362.774	0.358
42362.774	0.357
42362.775	0.357
42362.776	0.357
42362.777	0.358
42362.777	0.357
42362.778	0.358
42362.779	0.359
42362.78	0.36
42362.78	0.36
42362.781	0.359
42362.782	0.36
42362.783	0.36
42362.783	0.36
42362.784	0.361
42362.785	0.362
42362.786	0.363
42362.786	0.363
42362.787	0.363
42362.788	0.363
42362.789	0.362

42362.789	0.362
42362.79	0.363
42362.791	0.362
42362.792	0.362
42362.792	0.361
42362.793	0.36
42362.794	0.359
42362.795	0.358
42362.795	0.357
42362.796	0.357
42362.797	0.357
42362.798	0.356
42362.798	0.357
42362.799	0.356
42362.8	0.355
42362.8	0.355
42362.801	0.354
42362.802	0.354
42362.803	0.353
42362.803	0.353
42362.804	0.353
42362.805	0.354
42362.806	0.354
42362.806	0.354
42362.807	0.354
42362.808	0.353
42362.809	0.353
42362.809	0.352
42362.81	0.351
42362.811	0.351
42362.811	0.351
42362.812	0.351
42362.813	0.351
42362.814	0.35
42362.814	0.349
42362.815	0.349
42362.816	0.348
42362.816	0.348
42362.817	0.346
42362.818	0.347
42362.819	0.345
42362.819	0.344
42362.82	0.344
42362.821	0.341

3000(PGM-7320)

V1.10C

Mode

Max

Real

Down

0

11:48



Frederick Property with BCP Sign, NYSDEC Site #B00131) – 147 State Street, Manchester, New York



Frederick Property with BCP Sign, NYSDEC Site #B00131) – 147 State Street, Manchester, New York



Installation of Monitoring Well MW-A



Purge Water from MW-A (no free product observed)



Liquid Investigation Derived Waste (No Free Product Observed)

June 20, 2018 - 147 State Street (ERP B00131-8)

Overcast - 70°F
No wind to light wind from S

↳ GAT onsite @ 06:50 -

↳ find existing MW and mark out boring locations

↳ Opened Drums - 1 drum ~ 1/4 full H₂O - 1 drum ~ 1/2 full soil/Jars/(bentonsite?) paper sack↳ 07:20 - Jeff w/ Village stopped by site. Discussed SOW and ^{cost} asked if village could provide extension for MW's by road b/c the pro tops are ~ 0.5' below ground surface.

↳ 07:45 - HMZ onsite. Set up CAMP & Swing tie proposed locations

↳ 08:00 → Nothinghe (Steve +) onsite - set up on TB-203

↳ Drilling started 08:25

↳ Danielle miles onsite @ 08:35

↳ ^{mauro core - no augers}

↳ Drill TB-203 → TB-205 → TB-204 → TB-202 → TB-201 → MW-A

↳ Auger MW-A ~ 11:45 → Augers kick @ bottom (~10.5 bgs) and move to SW ~ 0.5', Steve recommends off-set and re-drill, thinks there is a boulder or something else on top of rock

↳ off-set ~ 2.5' NNW and auger to refusal (~~10.5'~~ 10.9" - bottom of well) - set well w/ 7' screen - 7 bags of sand

↳ 13:20 rig off of MW-A

↳ 13:45 → Danielle (NYSDEC) off-site

↳ 14:20 → Well complete → Advance inner TB's → 206, 206A, 207, 208

↳ 15:35 → Drilling complete

↳ 16:20 → Nothinghe off-site

↳ 16:35 → DAY off-site

CALC BY: _____ DATE: June 20, 2018 PROJECT NO.: Manche 54745-18

CHKD BY: _____ DATE: _____ DESCRIPTION: _____

day

SHEET _____ OF _____

DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

1563 LYELL AVENUE, ROCHESTER, NY 14606

CAMP (DAY)
08:25 - START

<u>PID</u>	<u>Particulate</u>	<u>Time</u>			
0.0	0.005	8:43	0.0	0.000	12:53
0.0	0.009	8:59	0.9	0.000	1:08
0.0	0.002	9:15	0.3	0.000	1:23
0.0	0.004	9:31	0.1	0.000	1:38
0.0	0.003	9:46	0.0	0.000	1:53
0.0	0.010	10:01	0.0	0.000	2:08
0.0	0.10	10:16	0.0	0.000	14:22
0.0	0.002	10:31	0.0	0.000	14:53
0.0	0.000	10:53	← change battery		
0.0	0.000	11:08	0.0	0.003	15:18
0.0	0.000	11:23	0.0	0.000	15:33
0.0	0.000	11:38			
0.0	0.000	11:53	15:35 - CAMP END		
0.0	0.000	12:08	(Drilling complete)		
0.0	0.001	12:23			
0.0	0.000	12:38			

CALC BY: _____ DATE: 6/20/18 PROJECT NO.: 54745-18CH'KD BY: _____ DATE: _____ DESCRIPTION: CAMP (DAY) Down wind



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 201

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

(end 11:04)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grabs + top soil	
2	1	04	70	-			0.0	Tan fine sand, little silt, little fine to med gravel, damp	
3							0.0	... Brn, med sand	
4						0.0	0.0	Brn clayey sand and gravel, (cobble?) concrete?, damp	
5							0.0		
6	2	4-8	20	-			0.0		
7						0.0	0.0		
8									
9	3	8-9.5	65	-		0.0	0.0	gray/tan clayey sand and fractured rock, wet	no sample
10						0.0	0.0	fractured rock	
11								Refusal @ 9.5	
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 201

1563 LYLE AVENUE
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FAX (585) 454-0825

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NEW YORK, NEW YORK 10170
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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 202

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grassy Top Soil Tan fine to medium sand and fine to coarse gravel (Fill), damp	
2	/	1	6-4	65	/		0.0	tan fine sand	
3						6.0	0.0	Red/Brn fine to coarse sand and fine to coarse gravel, trace cobbles, moist (Fill)	
4									
5									
6	/	2	4-8	15	/	0.0	0.0		
7									
8								.. wet	
9									
10	/	3	8-12	33	/		0.0		
11								Brn/grey silty sand and gravel, wet	Sample 12 @ 10:30
12	/	4	12-12.2	100	/	3.1	0.5		
13								12' 2" Refusal	
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) Stratification lines represent approximate boundaries. Transitions may be gradual.

3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.

4) NA = Not Available or Not Applicable

5) Headspace PID readings may be influenced by moisture

Test Boring TB- 202

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Project #: 5474S-18
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Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 203

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Crust + Topsoil	
2	1	0-100				6.8		Gray/Blk fine sand and crushed rock fill damp	
3						4.6		Dark brn silt, little sand, little fine gravel damp	
4						2.1		Red/Brn clay, trace fine gravel, moist	
5						0.0			
6	2	9-90				0.0		Tan clayey sand and gravel, moist	
7						0.0		... fine sand	
8						0.0		... wet	
9	3	9.1						tan weathered rock, little med to fine sand	little clay, wet Direct push refusal @ 9.1
10									
11									
12									- No sample retained -
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 203

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FAX (212) 986-8657



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 204

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass + Top Soil	
2	1	04	85				0.0	Tan fine sand, little silt, little fine to coarse gravel, damp	
3							0.0	Tan/Brn fine to med sand, little fine to coarse gravel, damp	
4							0.0	Red/Brn, med to coarse sand, moist	
5							0.3	... and gravel	
6	2	4-8	60				0.0	... wet, little clay	
7							0.0		
8	3	8-	50				0.0	Gray Silty Sand + Gravel, wet	Sample 8'-9'
9	9.1						1.1	Fractured rock, little	09:45
10								Refusal @ 9.1	
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 204

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Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 205

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____ 9:00 AM

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil + Grass	
2	/	1	0.4	73	/	0.0	0.0	Tan fine Sand, little silt, little gravel, damp	
3						0.0	0.0	Tan fine Sand, little fine to coarse gravel	
4							0.0	med to coarse sand, moist	
5	/	2	4-7.7	58	/	0.0	0.2	Brn Clayey Sand and gravel, moist	
6							0.0	wet	
7							0.0	Tan clay, trace fine sand	Sample #2
8		3	7.7-7.9	100			0.0	fractured rock	Refusal @ 7.7'
9								Refusal @ 7.9'	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 205

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Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 206

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1						0.0	3.6	<u>Grass and top soil</u> Tan fine to med sand, little silt, little fine to med gravel damp	
2	1	04	80	—			1.1		
3						0.6	0.6		
4						0.3	0.3	Brn med sand, little fine to coarse gravel, moist	
5						0.0	0.0		
6	2	48	40				0.0	Brn Clayey fine sand, some fine to coarse gravel, moist	
7						0.0	0.0	... Some cobbles	
8						0.0	0.0		
9								<u>Equipment Refusal @ 8'</u>	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 206

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DAY ENVIRONMENTAL, INC.

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB-210

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grubs + top soil	
2	1	2	70				0.0	Tan fine sand, some fine to med gravel, damp	
3							0.0	Brn med sand, some fine to med gravel, moist	
4							0.0	Brn Clayey sand and gravel, damp	
5							0.0		
6	2	4.6	35				0.0		
7							0.0		
8							0.0		
9							0.0		
10	3	8-11	38				3.3	Gray Clayey sand and fractured rock fragments. wet	Sample 10-11' 14:45
11							1.6	Refusal @ 11.5'	fractured rock
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) Stratification lines represent approximate boundaries. Transitions may be gradual.

3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.

4) NA = Not Available or Not Applicable

5) Headspace PID readings may be influenced by moisture

Test Boring TB-210

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 207

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Coarse and fine sand	
2		1	0.4	80			0.0	Tan fine sand, little silt, little fine to coarse gravel, damp	
3							0.0	Brn med sand, little fine to coarse gravel, damp	
4							0.0	... little silt	
5							0.0		
6		2	4.6	55			0.0		
7						1.1	9.8	Brn/gray clayey sand and gravel	
8						188.6	164.4		
9							154.8	Gray clay and fractured rock, little sand, wet	Petroleum odor ~ 7'-11.5'
10		3	8	70		702.3	1026		black staining ~ 10'
11						65.1	31.1	Fractured Rock	15:15 Sample @ 10-11'
12							21.1	Refusal @ 11.5	
13							17.2		
14									
15									
16									

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4) NA = Not Available or Not Applicable

5) Headspace PID readings may be influenced by moisture

Test Boring TB- 207

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Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Test Boring TB- 208

Page 1 of 2

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	<u>Grass and Topsoil</u> Tan fine sand, little silt, little fine to med gravel, damp	
2	-	1	0.4	70	-	0.0	0.3		
3							0.3	Brn med sand, little fine to coarse gravel, moist	
4							0.2	... little silt	
5							0.0		
6	-	2	4-8	60	-		0.1	Gray Rock Fragments	
7							0.6		
8							0.4		
9	-	3	8-9.7	50	-		0.5		Sample @ 9'
							0.8		15:40
							7.1		
10							6.4	Refusal @ 9'8"	
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) Stratification lines represent approximate boundaries. Transitions may be gradual.
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
4) NA = Not Available or Not Applicable
5) Headspace PID readings may be influenced by moisture

Test Boring TB- 208

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5474S-18
Project Address: 147 State Street
Manchester, New York
DAY Representative: CAH/HM2
Drilling Contractor: Nothnagle Drilling
Sampling Method: Direct Push/Macrocore

Ground Elevation: _____ Datum: _____
Date Started: 6/20/2018 Date Ended: 6/20/2018
Borehole Depth: _____ Borehole Diameter: _____
Completion Method: ☐ Well Installed ☐ Backfilled with Grout ☐ Backfilled with Cuttings
Water Level (Date): _____

Test Boring TB-209 MW-A

Page 1 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and topsoil	
2	1	04	80				0.0	Tan fine sand, little silt, little fine to med gravel, damp	
3							0.0	brn med. sand, little fine to med gravel, moist	
4							0.0	... little cobbles	
5									
6	2	48	20				0.0		
7									
8									
9							95.0	Gray/brn clayey sand and gravel, wet	Petro type odor ~ 9-11'
10	3	8-11	55				1563	Fractured rock, little clay, little sand, wet	
11							1347 2281 1878 747	Refusal @ 11'	
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.

2) Stratification lines represent approximate boundaries. Transitions may be gradual.

3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.

4) NA = Not Available or Not Applicable

5) Headspace PID readings may be influenced by moisture

Test Boring TB-209 MW-A

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5474S-18

Project Address: 147 State Street

MONITORING WELL MW- A

DAY Representative: CAH/HM2

Drilling Contractor: Nothnagle Drilling

Ground Elevation:

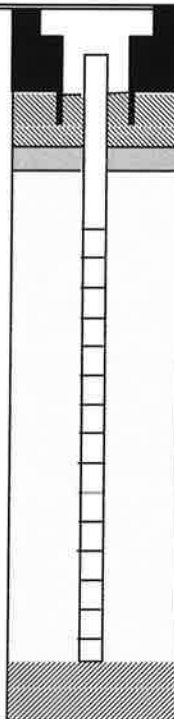
Date Started: 6/20/2018

Datum:

Date Ended: 6/20/2018

Water Level (Date):

Refer to Test Boring Log TB- ~ for Soil Description



Flush Mounted Roadbox

Depth to Top of Riser Pipe (ft)

0.5 Depth to Bottom of Cement Surface Patch (ft)

Backfill Type 90.6

1.75 Depth to Top of Bentonite Seal (ft)

2.75 Depth to Bottom of Bentonite Seal (ft)

3.75 Depth to Top of Well Screen (ft)

3 1/4 ID
Diameter of Borehole (in)

Backfill Type SAND 001

2" Inside Diameter of Well (in)

Type of Pipe PVC

Screen slot size #10

10.75 Depth to Bottom of Well Screen (ft)

10.75 Depth to Bottom of Borehole/Top of Bedrock (ft)

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
2) NA = Not Available or Not Applicable

MONITORING WELL MW- A

S:\Fieldforms\Monitoring Well Installation Log (revised October 2006)

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

51880

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name Manche		Project Number 5474S-18		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																	
Project Manager Charles Hampton		Report CC Ray Kampff		PRESERVATIVE 0																	
Company/Address DAY Environmental Inc 1563 Lyell Ave Rochester, NY 14606				NUMBER OF CONTAINERS		METALS, TOTAL (List in comments below)															
Phone # 585-454-0210				GC/MS VOAs GC/MS SVOCs GC/MS SVOCs + PCBs PESTICIDES PCBs METALS, DISSOLVED (List in comments below)		Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other <i>nitric</i>															
Sample's Signature <i>[Signature]</i>				Sample's Printed Name Charles Hampton		REMARKS/ ALTERNATE DESCRIPTION															
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX													
TB-204 8'-9'				6-20-18		9:45		Soil													
TB-202 12'				6-20-18		10:30		↓													
TB-207 10'-11'				6-20-18		15:15		↓													
TB-206A 10'-11'				6-20-18		14:45		↓													
TB-208 9'				6-20-18		15:40		↓													
TRIP Blank								Ag													
SPECIAL INSTRUCTIONS/COMMENTS Metals Test TICS to both VOAs and SVOCs												TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day Standard (10 business days-No Surcharge) ☒ REQUESTED REPORT DATE									
STATE WHERE SAMPLES WERE COLLECTED												REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries (ASP CAT 2 Deliverable) IV. Data Validation Report with Raw Data Edata ☒ Yes ☐ No									
RELINQUISHED BY <i>[Signature]</i> Signature Hanna Miller Printed Name DAY Environmental Firm 10-20-18 Date/Time 5:15				RECEIVED BY <i>[Signature]</i> Signature Ray Kampff Printed Name Ray Kampff Firm 10-20-18 Date/Time 11:15				RELINQUISHED BY Signature Printed Name Firm Date/Time				RECEIVED BY Signature Printed Name Firm Date/Time									

July 2, 2018 Monhe 5474S-18 147 State St

- ↳ 07:30 - Leave office / get ice / travel to site
 ↳ 08:25 - on site, open wells and SWL

	SWL	NAPL	PW
MW-A	7.60	N/D	360.4
MW-1	6.15	N/D	0.0
MW-2	6.61	N/D	0.0
MW-3	5.84	N/D	0.0
MW-4	5.75	N/D	4.8
MW-5	7.33	N/D	0.6
MW-6	5.82	N/D	0.2
RW-102	8.81	ND	0.1

RW-1	7.33	N/D	0.0
RW-2	6.79	N/D	0.0
RW-3	5.92	ND	0.0

TOC

- ↳ Excavated + cleaned out RW/MW-2
 RW/MW-3 + RW/MW-1 + MW-4

- 10:10 - SWL + well cleanout complete
 ↳ ~~Excavated~~ MW-A for free
 Product using Barter (see photo) then
 bailed well

10:25 → Purge complete. Hard bottom
 @ 10:39 (Purged to dry) 3.5 gal

Survey

Datum is South side Rim of MH in State St.
 Row = 30' ENE of RW-1 = 100'

Location/Turn	Shot #	Datum	±
HOE #1	1	MH RM	3.59
RW-1 (TOC)	2	HOE #1	4.12
RW-1 (GS)	3		3.41
MW-1 (TOC)	4		4.01
MW-1 (GS)	5	3.41	→ 3.41
MW-A (TOC)	7		3.66
MW-A (GS)	6		3.51
MW-2 (TOC)	9		4.56
MW-2 (GS)	8		4.02
RW-2 (TOC)	10		4.57
RW-2 (GS)	11		4.02
MW-4 (TOC)	12		4.41
MW-4 (GS)	13		4.17
MW-3 (TOC)	14		5.02
MW-3 (GS)	15		4.38
RW-3 (TOC)	16		5.22
RW-3 (GS)	17		4.42

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521745-18 7/2/18 141 State St

Survey (continued)

Location/turn	Shot	Datum	+ / -	Elev
GW-5 (Toc)	18	HOE #1	3.76	(49.83)
GW-5 (GS)	19		3.63	
Datum	20		3.59	
HOE #2	21	GW-5 (Toc) 2.21 (Above GW-5 Toc)		
GW-6 (Toc)	22	HOE #2	3.69	
GW-6 (GS)	23		3.33	
HOE #3	24	GW-6 (Toc) 3.26		
P-102 7 (Toc)	25	HOE #3	0.15	
P-102 (GS)	26		4.30	
GW-6 (Toc)	27		3.26	

11:15 - Survey complete

11:30 - SWL MW-A - 7.69

11:35 - Sample MW-A

MW-A - TEMP	pH	cond	ORP	visual
64.5°F	7.02	330 us	3 mV	cloudy - Hazy (Petrotypic odor)

12:10 - Collected Soil Sample from Drum

12:20 - GPS locations - 10 wells

149

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 800-807-7455	4. Waste Tracking Number 10-323
5. Generator's Name and Mailing Address VILLAGE OF MANCHESTER 8 CLIFTON STREET ROCHESTER NY 14504			Generator's Site Address (if different than mailing address) VILLAGE OF MANCHESTER 10 VANDERWALL ST ROCHESTER NY 14504		
6. Transporter 1 Company Name SUN ENVIRONMENTAL CORP. (ROCHESTER)			U.S. EPA ID Number NYR000176958		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address INDUSTRIAL OIL TANK SERVICE CORP. 120 DRY RD. ORISKANY NY 13204			U.S. EPA ID Number NYR0000005298		
Facility's Phone: 315 736.6080					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON RCRA, NON DOT REGULATED SOLIDS (GASOLINE IMPACTED SOIL)		002	DM	450	P
2.		24		24	
3.					
4.					
13. Special Handling Instructions and Additional Information JOB # VMAN.1000 1. 55 GAL / HANDLING CODE B / APPROVED PROBLE # VMAN180731 SL					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's Offeror's Printed/Typed Name <i>George Hottchiss</i>		Signature <i>George Hottchiss</i>		Month Day Year 8 1 18	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name <i>John Hanebrik</i>		Signature <i>John Hanebrik</i>		Month Day Year 8 1 18	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name <i>Mark Polisin</i>		Signature <i>Mark Polisin</i>		Month Day Year 8 2 18	