

APPENDIX K
ANALYTICAL REPORTS
(SUBSURFACE FILL/SOIL)



ANALYTICAL REPORT

Lab Number:	L1909634
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/29/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1909634-01	EB01_190312	WATER	SCHENECTADY, NY	03/12/19 11:20	03/12/19
L1909634-02	RIMW5_12-14	SOIL	SCHENECTADY, NY	03/12/19 12:25	03/12/19
L1909634-03	FD01_190312	SOIL	SCHENECTADY, NY	03/12/19 00:00	03/12/19
L1909634-04	RIMW6_12-14	SOIL	SCHENECTADY, NY	03/12/19 16:05	03/12/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Case Narrative (continued)

Report Revision

March 29, 2019: The client ID on sample L1909634-02 has been amended.

Report Submission

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

Total Metals

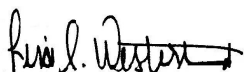
L1909634-02, -03 and -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1215139-2/-3 LCS/LCSD recoveries (77%/68%), associated with L1909634-02 through -04, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 03/29/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-01
 Client ID: EB01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/15/19 09:44
 Analyst: PK

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

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	1.8	J	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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	93		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-02
 Client ID: RIMW5_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/19/19 00:06
 Analyst: NLK
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-02
 Client ID: RIMW5_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.98	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.1	0.72	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Tentatively Identified Compounds

Total TIC Compounds	2.58	J	ug/kg	1
Unknown	2.58	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-03
 Client ID: FD01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/19/19 00:33
 Analyst: NLK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.90	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.20	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-03
 Client ID: FD01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.73	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
Methyl Acetate	ND		ug/kg	5.2	1.2	1
Cyclohexane	ND		ug/kg	13	0.71	1
1,4-Dioxane	ND		ug/kg	100	46.	1
Freon-113	ND		ug/kg	5.2	0.90	1
Methyl cyclohexane	ND		ug/kg	5.2	0.78	1

Tentatively Identified Compounds

Total TIC Compounds	6.65	J	ug/kg	1
1-Pentene	6.65	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-04
 Client ID: RIMW6_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/19/19 00:59
 Analyst: NLK
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	0.24	J	ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.20	1
Benzene	ND		ug/kg	0.59	0.20	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.4	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-04
 Client ID: RIMW6_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.32	1
Methyl Acetate	ND		ug/kg	4.7	1.1	1
Cyclohexane	ND		ug/kg	12	0.64	1
1,4-Dioxane	ND		ug/kg	94	41.	1
Freon-113	ND		ug/kg	4.7	0.82	1
Methyl cyclohexane	ND		ug/kg	4.7	0.71	1

Tentatively Identified Compounds

Total TIC Compounds	4.32	J	ug/kg	1
Unknown	4.32	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/15/19 08:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216166-5					
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
1,1,1,2-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: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/15/19 08:54
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216166-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/15/19 08:54
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216166-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	92		70-130

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/18/19 18:01
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1217110-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/18/19 18:01
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1217110-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	0.23	J	ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/18/19 18:01
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-04 Batch: WG1217110-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

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: WG1216166-3 WG1216166-4								
Methylene chloride	99		96		70-130	3		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	92		92		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	98		93		63-130	5		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	91		88		70-130	3		20
Chlorobenzene	100		97		75-130	3		20
Trichlorofluoromethane	92		92		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	94		93		67-130	1		20
Bromodichloromethane	99		98		67-130	1		20
trans-1,3-Dichloropropene	100		100		70-130	0		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
Bromoform	95		89		54-136	7		20
1,1,2,2-Tetrachloroethane	110		100		67-130	10		20
Benzene	100		99		70-130	1		20
Toluene	100		98		70-130	2		20
Ethylbenzene	99		96		70-130	3		20
Chloromethane	100		92		64-130	8		20
Bromomethane	47		45		39-139	4		20
Vinyl chloride	100		97		55-140	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

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: WG1216166-3 WG1216166-4								
Chloroethane	96		100		55-138	4		20
1,1-Dichloroethene	89		86		61-145	3		20
trans-1,2-Dichloroethene	95		93		70-130	2		20
Trichloroethene	93		91		70-130	2		20
1,2-Dichlorobenzene	100		97		70-130	3		20
1,3-Dichlorobenzene	100		97		70-130	3		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	99		97		63-130	2		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	97		98		70-130	1		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	92		90		36-147	2		20
Acetone	120		110		58-148	9		20
Carbon disulfide	93		89		51-130	4		20
2-Butanone	100		100		63-138	0		20
4-Methyl-2-pentanone	97		94		59-130	3		20
2-Hexanone	100		100		57-130	0		20
Bromochloromethane	96		95		70-130	1		20
1,2-Dibromoethane	100		98		70-130	2		20
1,2-Dibromo-3-chloropropane	96		86		41-144	11		20
Isopropylbenzene	98		96		70-130	2		20
1,2,3-Trichlorobenzene	99		94		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

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: WG1216166-3 WG1216166-4								
1,2,4-Trichlorobenzene	95		90		70-130	5		20
Methyl Acetate	110		110		70-130	0		20
Cyclohexane	94		90		70-130	4		20
1,4-Dioxane	60		104		56-162	54	Q	20
Freon-113	86		83		70-130	4		20
Methyl cyclohexane	87		85		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		104		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	96		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1217110-3 WG1217110-4								
Methylene chloride	95		89		70-130	7		30
1,1-Dichloroethane	88		87		70-130	1		30
Chloroform	86		83		70-130	4		30
Carbon tetrachloride	85		81		70-130	5		30
1,2-Dichloropropane	89		88		70-130	1		30
Dibromochloromethane	85		85		70-130	0		30
1,1,2-Trichloroethane	85		84		70-130	1		30
Tetrachloroethene	84		79		70-130	6		30
Chlorobenzene	80		78		70-130	3		30
Trichlorofluoromethane	84		81		70-139	4		30
1,2-Dichloroethane	88		88		70-130	0		30
1,1,1-Trichloroethane	86		82		70-130	5		30
Bromodichloromethane	85		83		70-130	2		30
trans-1,3-Dichloropropene	86		85		70-130	1		30
cis-1,3-Dichloropropene	85		84		70-130	1		30
Bromoform	85		85		70-130	0		30
1,1,2,2-Tetrachloroethane	82		83		70-130	1		30
Benzene	85		82		70-130	4		30
Toluene	85		81		70-130	5		30
Ethylbenzene	84		81		70-130	4		30
Chloromethane	102		96		52-130	6		30
Bromomethane	110		102		57-147	8		30
Vinyl chloride	91		87		67-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1217110-3 WG1217110-4								
Chloroethane	94		89		50-151	5		30
1,1-Dichloroethene	82		80		65-135	2		30
trans-1,2-Dichloroethene	86		83		70-130	4		30
Trichloroethene	85		80		70-130	6		30
1,2-Dichlorobenzene	81		80		70-130	1		30
1,3-Dichlorobenzene	82		79		70-130	4		30
1,4-Dichlorobenzene	82		80		70-130	2		30
Methyl tert butyl ether	87		86		66-130	1		30
p/m-Xylene	82		78		70-130	5		30
o-Xylene	81		79		70-130	3		30
cis-1,2-Dichloroethene	85		82		70-130	4		30
Styrene	81		78		70-130	4		30
Dichlorodifluoromethane	76		72		30-146	5		30
Acetone	151	Q	105		54-140	36	Q	30
Carbon disulfide	106		86		59-130	21		30
2-Butanone	112		95		70-130	16		30
4-Methyl-2-pentanone	100		98		70-130	2		30
2-Hexanone	92		91		70-130	1		30
Bromochloromethane	88		84		70-130	5		30
1,2-Dibromoethane	85		83		70-130	2		30
1,2-Dibromo-3-chloropropane	89		88		68-130	1		30
Isopropylbenzene	81		79		70-130	3		30
1,2,3-Trichlorobenzene	84		83		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-04 Batch: WG1217110-3 WG1217110-4								
1,2,4-Trichlorobenzene	83		82		70-130	1		30
Methyl Acetate	95		95		51-146	0		30
Cyclohexane	88		85		59-142	3		30
1,4-Dioxane	116		118		65-136	2		30
Freon-113	85		81		50-139	5		30
Methyl cyclohexane	83		80		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		101		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	99		98		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-01
 Client ID: EB01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 03/19/19 00:17
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 03/14/19 16:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	0.57	J	ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	3.0		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1909634-01**Date Collected:** 03/12/19 11:20**Client ID:** EB01_190312**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	56.8	J	ug/l	1
Unknown Siloxane	2.00	J	ug/l	1
Unknown	17.7	J	ug/l	1
Aldol Condensates	25.2	J	ug/l	1
Unknown	1.74	J	ug/l	1
Unknown Siloxane	10.2	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	26		10-120
4-Terphenyl-d14	59		41-149

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/17/19 12:21
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/14/19 16:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.13		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	70		41-149

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-02
 Client ID: RIMW5_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/16/19 17:32
 Analyst: RC
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

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	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	32.	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	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	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

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-02
 Client ID: RIMW5_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
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	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	240	50.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1909634-02**Date Collected:** 03/12/19 12:25**Client ID:** RIMW5_12-14**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	622	J	ug/kg			1
Unknown Amide	622	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	84		18-120

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-03
 Client ID: FD01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/16/19 17:57
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

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	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-03
 Client ID: FD01_190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
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	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	ND		ug/kg	190	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-03
Client ID: FD01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Tentatively Identified Compounds

Total TIC Compounds	716	J	ug/kg			1
Unknown	716	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	84		18-120

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-04
 Client ID: RIMW6_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/16/19 18:22
 Analyst: RC
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-04
 Client ID: RIMW6_12-14
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	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	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	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	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	ND		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-04
Client ID: RIMW6_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Tentatively Identified Compounds

Total TIC Compounds	639	J	ug/kg			1
Unknown Amide	639	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	78		18-120

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/14/19 20:18
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/13/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1215113-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/14/19 20:18
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/13/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1215113-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	52.8	J	ug/l
Unknown	1.53	J	ug/l
Aldol Condensates	51.3	J	ug/l

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/14/19 20:18
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 03/13/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1215113-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	29		10-120
4-Terphenyl-d14	71		41-149

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/19 13:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/13/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1215114-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/16/19 13:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/13/19 09:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1215114-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	68		41-149

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/19 14:32
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1216229-1					
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	32.
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	460	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	55.
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: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/19 14:32
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1216229-1					
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	67.
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	66.
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: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/16/19 14:32
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1216229-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	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	210	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	62		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1215113-2 WG1215113-3								
Bis(2-chloroethyl)ether	83		95		40-140	13		30
3,3'-Dichlorobenzidine	64		67		40-140	5		30
2,4-Dinitrotoluene	99		111		48-143	11		30
2,6-Dinitrotoluene	89		104		40-140	16		30
4-Chlorophenyl phenyl ether	78		91		40-140	15		30
4-Bromophenyl phenyl ether	78		88		40-140	12		30
Bis(2-chloroisopropyl)ether	76		90		40-140	17		30
Bis(2-chloroethoxy)methane	95		108		40-140	13		30
Hexachlorocyclopentadiene	41		52		40-140	24		30
Isophorone	97		112		40-140	14		30
Nitrobenzene	89		104		40-140	16		30
NDPA/DPA	88		99		40-140	12		30
n-Nitrosodi-n-propylamine	97		112		29-132	14		30
Bis(2-ethylhexyl)phthalate	101		103		40-140	2		30
Butyl benzyl phthalate	87		94		40-140	8		30
Di-n-butylphthalate	86		92		40-140	7		30
Di-n-octylphthalate	98		103		40-140	5		30
Diethyl phthalate	95		104		40-140	9		30
Dimethyl phthalate	87		98		40-140	12		30
Biphenyl	73		88		40-140	19		30
4-Chloroaniline	49		54		40-140	10		30
2-Nitroaniline	87		100		52-143	14		30
3-Nitroaniline	76		89		25-145	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1215113-2 WG1215113-3								
4-Nitroaniline	87		90		51-143	3		30
Dibenzofuran	79		94		40-140	17		30
1,2,4,5-Tetrachlorobenzene	56		72		2-134	25		30
Acetophenone	82		95		39-129	15		30
2,4,6-Trichlorophenol	76		83		30-130	9		30
p-Chloro-m-cresol	87		97		23-97	11		30
2-Chlorophenol	84		92		27-123	9		30
2,4-Dichlorophenol	95		103		30-130	8		30
2,4-Dimethylphenol	77		63		30-130	20		30
2-Nitrophenol	93		111		30-130	18		30
4-Nitrophenol	115	Q	120	Q	10-80	4		30
2,4-Dinitrophenol	101		102		20-130	1		30
4,6-Dinitro-o-cresol	106		108		20-164	2		30
Phenol	71		76		12-110	7		30
3-Methylphenol/4-Methylphenol	98		108		30-130	10		30
2,4,5-Trichlorophenol	78		87		30-130	11		30
Carbazole	90		96		55-144	6		30
Atrazine	104		112		40-140	7		30
Benzaldehyde	74		89		40-140	18		30
Caprolactam	52		55		10-130	6		30
2,3,4,6-Tetrachlorophenol	85		90		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1215113-2 WG1215113-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		81		21-120
Phenol-d6	64		69		10-120
Nitrobenzene-d5	88		102		23-120
2-Fluorobiphenyl	70		83		15-120
2,4,6-Tribromophenol	69		74		10-120
4-Terphenyl-d14	71		75		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1215114-2 WG1215114-3								
Acenaphthene	97		97		40-140	0		40
2-Chloronaphthalene	94		93		40-140	1		40
Fluoranthene	97		98		40-140	1		40
Hexachlorobutadiene	84		81		40-140	4		40
Naphthalene	86		84		40-140	2		40
Benzo(a)anthracene	116		116		40-140	0		40
Benzo(a)pyrene	101		101		40-140	0		40
Benzo(b)fluoranthene	108		107		40-140	1		40
Benzo(k)fluoranthene	106		109		40-140	3		40
Chrysene	112		111		40-140	1		40
Acenaphthylene	104		103		40-140	1		40
Anthracene	101		102		40-140	1		40
Benzo(ghi)perylene	83		80		40-140	4		40
Fluorene	111		111		40-140	0		40
Phenanthrene	96		97		40-140	1		40
Dibenzo(a,h)anthracene	90		86		40-140	5		40
Indeno(1,2,3-cd)pyrene	90		87		40-140	3		40
Pyrene	97		98		40-140	1		40
2-Methylnaphthalene	91		89		40-140	2		40
Pentachlorophenol	107		105		40-140	2		40
Hexachlorobenzene	97		100		40-140	3		40
Hexachloroethane	80		77		40-140	4		40

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1215114-2 WG1215114-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		70		21-120
Phenol-d6	62		61		10-120
Nitrobenzene-d5	101		101		23-120
2-Fluorobiphenyl	93		92		15-120
2,4,6-Tribromophenol	89		84		10-120
4-Terphenyl-d14	91		96		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1216229-2 WG1216229-3								
Acenaphthene	83		75		31-137	10		50
Hexachlorobenzene	82		79		40-140	4		50
Bis(2-chloroethyl)ether	78		71		40-140	9		50
2-Chloronaphthalene	73		74		40-140	1		50
3,3'-Dichlorobenzidine	56		57		40-140	2		50
2,4-Dinitrotoluene	95		88		40-132	8		50
2,6-Dinitrotoluene	88		87		40-140	1		50
Fluoranthene	77		79		40-140	3		50
4-Chlorophenyl phenyl ether	87		76		40-140	13		50
4-Bromophenyl phenyl ether	82		80		40-140	2		50
Bis(2-chloroisopropyl)ether	68		59		40-140	14		50
Bis(2-chloroethoxy)methane	76		61		40-117	22		50
Hexachlorobutadiene	73		68		40-140	7		50
Hexachlorocyclopentadiene	76		74		40-140	3		50
Hexachloroethane	68		59		40-140	14		50
Isophorone	77		64		40-140	18		50
Naphthalene	71		67		40-140	6		50
Nitrobenzene	72		63		40-140	13		50
NDPA/DPA	92		82		36-157	11		50
n-Nitrosodi-n-propylamine	88		71		32-121	21		50
Bis(2-ethylhexyl)phthalate	92		94		40-140	2		50
Butyl benzyl phthalate	84		91		40-140	8		50
Di-n-butylphthalate	84		83		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1216229-2 WG1216229-3								
Di-n-octylphthalate	92		87		40-140	6		50
Diethyl phthalate	98		86		40-140	13		50
Dimethyl phthalate	81		82		40-140	1		50
Benzo(a)anthracene	85		88		40-140	3		50
Benzo(a)pyrene	87		70		40-140	22		50
Benzo(b)fluoranthene	86		73		40-140	16		50
Benzo(k)fluoranthene	82		67		40-140	20		50
Chrysene	80		81		40-140	1		50
Acenaphthylene	79		79		40-140	0		50
Anthracene	75		76		40-140	1		50
Benzo(ghi)perylene	76		79		40-140	4		50
Fluorene	94		83		40-140	12		50
Phenanthrene	72		74		40-140	3		50
Dibenzo(a,h)anthracene	78		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	92		94		40-140	2		50
Pyrene	76		76		35-142	0		50
Biphenyl	76		77		54-104	1		50
4-Chloroaniline	40		37	Q	40-140	8		50
2-Nitroaniline	82		85		47-134	4		50
3-Nitroaniline	61		60		26-129	2		50
4-Nitroaniline	104		85		41-125	20		50
Dibenzofuran	79		76		40-140	4		50
2-Methylnaphthalene	75		71		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1216229-2 WG1216229-3								
1,2,4,5-Tetrachlorobenzene	77		75		40-117	3		50
Acetophenone	88		69		14-144	24		50
2,4,6-Trichlorophenol	86		81		30-130	6		50
p-Chloro-m-cresol	93		80		26-103	15		50
2-Chlorophenol	83		74		25-102	11		50
2,4-Dichlorophenol	80		67		30-130	18		50
2,4-Dimethylphenol	79		68		30-130	15		50
2-Nitrophenol	80		64		30-130	22		50
4-Nitrophenol	88		82		11-114	7		50
2,4-Dinitrophenol	74		57		4-130	26		50
4,6-Dinitro-o-cresol	103		89		10-130	15		50
Pentachlorophenol	76		91		17-109	18		50
Phenol	82		85		26-90	4		50
2-Methylphenol	81		69		30-130	16		50
3-Methylphenol/4-Methylphenol	90		71		30-130	24		50
2,4,5-Trichlorophenol	90		82		30-130	9		50
Carbazole	77		83		54-128	8		50
Atrazine	99		103		40-140	4		50
Benzaldehyde	76		82		40-140	8		50
Caprolactam	93		85		15-130	9		50
2,3,4,6-Tetrachlorophenol	90		78		40-140	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1216229-2 WG1216229-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		77		25-120
Phenol-d6	78		83		10-120
Nitrobenzene-d5	78		69		23-120
2-Fluorobiphenyl	82		79		30-120
2,4,6-Tribromophenol	90		89		10-136
4-Terphenyl-d14	79		88		18-120

PCBS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/17/19 20:27
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/15/19 01:02
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.082	0.034	1	A
Aroclor 1221	ND		ug/l	0.082	0.066	1	A
Aroclor 1232	ND		ug/l	0.082	0.045	1	A
Aroclor 1242	ND		ug/l	0.082	0.038	1	A
Aroclor 1248	ND		ug/l	0.082	0.048	1	A
Aroclor 1254	0.182		ug/l	0.082	0.039	1	A
Aroclor 1260	ND		ug/l	0.082	0.032	1	A
Aroclor 1262	ND		ug/l	0.082	0.034	1	A
Aroclor 1268	0.941		ug/l	0.082	0.033	1	A
PCBs, Total	1.12		ug/l	0.082	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-02
Client ID: RIMW5_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/19 13:42
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 05:27
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.72	1	A
Aroclor 1232	ND		ug/kg	37.2	7.88	1	A
Aroclor 1242	ND		ug/kg	37.2	5.01	1	A
Aroclor 1248	ND		ug/kg	37.2	5.57	1	A
Aroclor 1254	ND		ug/kg	37.2	4.06	1	A
Aroclor 1260	ND		ug/kg	37.2	6.87	1	A
Aroclor 1262	ND		ug/kg	37.2	4.72	1	A
Aroclor 1268	ND		ug/kg	37.2	3.85	1	A
PCBs, Total	ND		ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-03
Client ID: FD01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/19 13:54
Analyst: HT
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 05:49
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.91	1	A
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.87	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-04
Client ID: RIMW6_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/16/19 14:07
Analyst: HT
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 05:49
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	3.28	1	A
Aroclor 1221	ND		ug/kg	36.9	3.70	1	A
Aroclor 1232	ND		ug/kg	36.9	7.83	1	A
Aroclor 1242	ND		ug/kg	36.9	4.98	1	A
Aroclor 1248	ND		ug/kg	36.9	5.54	1	A
Aroclor 1254	ND		ug/kg	36.9	4.04	1	A
Aroclor 1260	ND		ug/kg	36.9	6.82	1	A
Aroclor 1262	ND		ug/kg	36.9	4.69	1	A
Aroclor 1268	ND		ug/kg	36.9	3.82	1	A
PCBs, Total	ND		ug/kg	36.9	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/17/19 20:40
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 03/15/19 01:02
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1215783-1						
Aroclor 1016	ND		ug/l	0.082	0.034	A
Aroclor 1221	ND		ug/l	0.082	0.066	A
Aroclor 1232	ND		ug/l	0.082	0.045	A
Aroclor 1242	ND		ug/l	0.082	0.038	A
Aroclor 1248	ND		ug/l	0.082	0.048	A
Aroclor 1254	ND		ug/l	0.082	0.039	A
Aroclor 1260	ND		ug/l	0.082	0.032	A
Aroclor 1262	ND		ug/l	0.082	0.034	A
Aroclor 1268	ND		ug/l	0.082	0.033	A
PCBs, Total	ND		ug/l	0.082	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/16/19 02:47
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/15/19 05:27
Cleanup Method: EPA 3665A
Cleanup Date: 03/15/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/15/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-04 Batch: WG1215829-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.73	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.87	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	90		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1215783-2 WG1215783-3									
Aroclor 1016	67		64		40-140	5		50	A
Aroclor 1260	78		76		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		65		30-150	A
Decachlorobiphenyl	89		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		69		30-150	B
Decachlorobiphenyl	83		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-04 Batch: WG1215829-2 WG1215829-3									
Aroclor 1016	88		84		40-140	5		50	A
Aroclor 1260	80		78		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		82		30-150	A
Decachlorobiphenyl	87		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		86		30-150	B
Decachlorobiphenyl	94		93		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/19/19 10:51
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 03/18/19 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-01

Date Collected: 03/12/19 11:20

Client ID: EB01_190312

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	34		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	33		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-02
Client ID: RIMW5_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/16/19 16:29
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 23:28
Cleanup Method: EPA 3620B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.719	0.321	1	A
Alpha-BHC	ND		ug/kg	0.719	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.387	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.719	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.755	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	0.566	JIP	ug/kg	1.72	0.399	1	B
4,4'-DDD	ND		ug/kg	1.72	0.615	1	A
4,4'-DDT	ND		ug/kg	3.23	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.408	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.719	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.01	1	A
Toxaphene	ND		ug/kg	32.3	9.06	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	ND		ug/kg	2.16	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1909634-02**Date Collected:** 03/12/19 12:25**Client ID:** RIMW5_12-14**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-03
Client ID: FD01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/16/19 15:45
Analyst: BM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 23:28
Cleanup Method: EPA 3620B
Cleanup Date: 03/16/19

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	0.762	0.341	1	A
Alpha-BHC	ND		ug/kg	0.762	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.915	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.644	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.762	0.313	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.800	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	ND		ug/kg	1.83	0.423	1	A
4,4'-DDD	ND		ug/kg	1.83	0.653	1	A
4,4'-DDT	ND		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.611	1	A
Endosulfan sulfate	ND		ug/kg	0.762	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.61	1	A
cis-Chlordane	ND		ug/kg	2.29	0.637	1	A
trans-Chlordane	ND		ug/kg	2.29	0.604	1	A
Chlordane	ND		ug/kg	14.9	6.06	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1909634-03**Date Collected:** 03/12/19 00:00**Client ID:** FD01_190312**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	68		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-04
Client ID: RIMW6_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/16/19 15:58
Analyst: BM
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/15/19 23:28
Cleanup Method: EPA 3620B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.779	0.348	1	A
Alpha-BHC	ND		ug/kg	0.779	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.709	1	A
Heptachlor	ND		ug/kg	0.935	0.419	1	A
Aldrin	ND		ug/kg	1.87	0.659	1	A
Heptachlor epoxide	ND		ug/kg	3.51	1.05	1	A
Endrin	ND		ug/kg	0.779	0.320	1	A
Endrin aldehyde	ND		ug/kg	2.34	0.818	1	A
Endrin ketone	ND		ug/kg	1.87	0.482	1	A
Dieldrin	ND		ug/kg	1.17	0.584	1	A
4,4'-DDE	ND		ug/kg	1.87	0.432	1	A
4,4'-DDD	ND		ug/kg	1.87	0.667	1	A
4,4'-DDT	ND		ug/kg	3.51	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.442	1	A
Endosulfan II	ND		ug/kg	1.87	0.625	1	A
Endosulfan sulfate	ND		ug/kg	0.779	0.371	1	A
Methoxychlor	ND		ug/kg	3.51	1.09	1	A
Toxaphene	ND		ug/kg	35.1	9.82	1	A
cis-Chlordane	ND		ug/kg	2.34	0.652	1	A
trans-Chlordane	ND		ug/kg	2.34	0.617	1	A
Chlordane	ND		ug/kg	15.2	6.20	1	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-04
Client ID: RIMW6_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/16/19 15:51
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 03/15/19 23:28
Cleanup Method: EPA 3620B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-04 Batch: WG1216201-1						
Delta-BHC	ND		ug/kg	1.53	0.299	A
Lindane	ND		ug/kg	0.637	0.285	A
Alpha-BHC	ND		ug/kg	0.637	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.580	A
Heptachlor	ND		ug/kg	0.764	0.343	A
Aldrin	ND		ug/kg	1.53	0.538	A
Heptachlor epoxide	ND		ug/kg	2.87	0.860	A
Endrin	ND		ug/kg	0.637	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.669	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.955	0.478	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.545	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.511	A
Endosulfan sulfate	ND		ug/kg	0.637	0.303	A
Methoxychlor	ND		ug/kg	2.87	0.892	A
Toxaphene	ND		ug/kg	28.7	8.02	A
cis-Chlordane	ND		ug/kg	1.91	0.532	A
trans-Chlordane	ND		ug/kg	1.91	0.504	A
Chlordane	ND		ug/kg	12.4	5.06	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/16/19 15:51
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/15/19 23:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02-04 Batch: WG1216201-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/19/19 10:13
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 03/18/19 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216890-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/19/19 10:13
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 03/18/19 18:43

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216890-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-04 Batch: WG1216201-2 WG1216201-3									
Delta-BHC	88		73		30-150	19		30	A
Lindane	91		74		30-150	21		30	A
Alpha-BHC	88		70		30-150	23		30	A
Beta-BHC	85		69		30-150	21		30	A
Heptachlor	51		52		30-150	2		30	A
Aldrin	80		64		30-150	22		30	A
Heptachlor epoxide	86		73		30-150	16		30	A
Endrin	89		77		30-150	14		30	A
Endrin aldehyde	65		57		30-150	13		30	A
Endrin ketone	80		69		30-150	15		30	A
Dieldrin	92		70		30-150	27		30	A
4,4'-DDE	69		63		30-150	9		30	A
4,4'-DDD	88		71		30-150	21		30	A
4,4'-DDT	80		68		30-150	16		30	A
Endosulfan I	74		64		30-150	14		30	A
Endosulfan II	84		70		30-150	18		30	A
Endosulfan sulfate	72		64		30-150	12		30	A
Methoxychlor	78		66		30-150	17		30	A
cis-Chlordane	71		61		30-150	15		30	A
trans-Chlordane	84		71		30-150	17		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02-04 Batch: WG1216201-2 WG1216201-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		66		30-150	B
Decachlorobiphenyl	89		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		51		30-150	A
Decachlorobiphenyl	89		65		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216890-2 WG1216890-3									
Delta-BHC	55		63		30-150	14		20	A
Lindane	69		75		30-150	8		20	A
Alpha-BHC	72		79		30-150	10		20	A
Beta-BHC	65		73		30-150	11		20	A
Heptachlor	66		75		30-150	13		20	A
Aldrin	66		76		30-150	15		20	A
Heptachlor epoxide	68		79		30-150	15		20	A
Endrin	68		84		30-150	20		20	A
Endrin aldehyde	57		76		30-150	28	Q	20	A
Endrin ketone	69		88		30-150	23	Q	20	A
Dieldrin	69		84		30-150	19		20	A
4,4'-DDE	64		79		30-150	22	Q	20	A
4,4'-DDD	63		80		30-150	24	Q	20	A
4,4'-DDT	69		89		30-150	26	Q	20	A
Endosulfan I	62		75		30-150	18		20	A
Endosulfan II	63		77		30-150	20		20	A
Endosulfan sulfate	63		79		30-150	23	Q	20	A
Methoxychlor	66		85		30-150	26	Q	20	A
cis-Chlordane	62		74		30-150	17		20	A
trans-Chlordane	63		75		30-150	17		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216890-2 WG1216890-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		64		30-150	A
Decachlorobiphenyl	58		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		65		30-150	B
Decachlorobiphenyl	61		77		30-150	B

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-01

Date Collected: 03/12/19 11:20

Client ID: EB01_190312

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.38		mg/l	0.0100	0.00327	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Antimony, Total	0.00401		mg/l	0.00400	0.00042	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00175		mg/l	0.00050	0.00016	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Barium, Total	0.02155		mg/l	0.00050	0.00017	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00013	J	mg/l	0.00020	0.00005	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Calcium, Total	8.24		mg/l	0.100	0.0394	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Chromium, Total	0.05009		mg/l	0.00100	0.00017	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00206		mg/l	0.00050	0.00016	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Copper, Total	0.02815		mg/l	0.00100	0.00038	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Iron, Total	14.3		mg/l	0.0500	0.0191	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Lead, Total	0.02754		mg/l	0.00100	0.00034	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Magnesium, Total	3.00		mg/l	0.0700	0.0242	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Manganese, Total	0.2614		mg/l	0.00100	0.00044	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/13/19 10:51	03/14/19 21:16	EPA 7470A	1,7470A	EA
Nickel, Total	0.01228		mg/l	0.00200	0.00055	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Potassium, Total	0.503		mg/l	0.100	0.0309	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Sodium, Total	1.80		mg/l	0.100	0.0293	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Thallium, Total	0.00015	J	mg/l	0.00050	0.00014	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00312	J	mg/l	0.00500	0.00157	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM
Zinc, Total	0.04080		mg/l	0.01000	0.00341	1	03/13/19 12:00	03/14/19 10:32	EPA 3005A	1,6020B	AM



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-02

Date Collected: 03/12/19 12:25

Client ID: RIMW5_12-14

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2680		mg/kg	8.64	2.33	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Antimony, Total	0.337	J	mg/kg	4.32	0.328	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Arsenic, Total	2.40		mg/kg	0.864	0.180	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Barium, Total	10.2		mg/kg	0.864	0.150	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Beryllium, Total	0.130	J	mg/kg	0.432	0.029	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.864	0.085	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Calcium, Total	11600		mg/kg	8.64	3.02	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Chromium, Total	4.04		mg/kg	0.864	0.083	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Cobalt, Total	3.23		mg/kg	1.73	0.143	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Copper, Total	12.1		mg/kg	0.864	0.223	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Iron, Total	8790		mg/kg	4.32	0.780	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Lead, Total	3.54	J	mg/kg	4.32	0.232	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Magnesium, Total	1390		mg/kg	8.64	1.33	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Manganese, Total	211		mg/kg	0.864	0.137	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.071	0.015	1	03/13/19 05:40	03/14/19 15:34	EPA 7471B	1,7471B	BV
Nickel, Total	7.13		mg/kg	2.16	0.209	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Potassium, Total	309		mg/kg	216	12.4	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Selenium, Total	0.311	J	mg/kg	1.73	0.223	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.864	0.244	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Sodium, Total	33.9	J	mg/kg	173	2.72	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.73	0.272	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Vanadium, Total	7.57		mg/kg	0.864	0.175	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC
Zinc, Total	25.0		mg/kg	4.32	0.253	2	03/14/19 20:38	03/15/19 18:05	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-03

Date Collected: 03/12/19 00:00

Client ID: FD01_190312

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2460		mg/kg	8.99	2.43	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.50	0.342	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Arsenic, Total	2.41		mg/kg	0.899	0.187	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Barium, Total	10.8		mg/kg	0.899	0.156	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Beryllium, Total	0.090	J	mg/kg	0.450	0.030	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.899	0.088	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Calcium, Total	29400		mg/kg	8.99	3.15	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Chromium, Total	4.65		mg/kg	0.899	0.086	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Cobalt, Total	3.00		mg/kg	1.80	0.149	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Copper, Total	8.26		mg/kg	0.899	0.232	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Iron, Total	8870		mg/kg	4.50	0.812	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Lead, Total	3.12	J	mg/kg	4.50	0.241	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Magnesium, Total	1520		mg/kg	8.99	1.38	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Manganese, Total	200		mg/kg	0.899	0.143	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.074	0.016	1	03/13/19 05:40	03/14/19 15:36	EPA 7471B	1,7471B	BV
Nickel, Total	6.15		mg/kg	2.25	0.218	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Potassium, Total	292		mg/kg	225	13.0	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.80	0.232	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.899	0.254	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Sodium, Total	45.8	J	mg/kg	180	2.83	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.80	0.283	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Vanadium, Total	8.83		mg/kg	0.899	0.182	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC
Zinc, Total	19.1		mg/kg	4.50	0.264	2	03/14/19 20:38	03/15/19 18:09	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1909634-04

Date Collected: 03/12/19 16:05

Client ID: RIMW6_12-14

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2290		mg/kg	9.26	2.50	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.63	0.352	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Arsenic, Total	2.08		mg/kg	0.926	0.193	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Barium, Total	8.50		mg/kg	0.926	0.161	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Beryllium, Total	0.056	J	mg/kg	0.463	0.031	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.926	0.091	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Calcium, Total	27900		mg/kg	9.26	3.24	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Chromium, Total	3.84		mg/kg	0.926	0.089	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Cobalt, Total	2.70		mg/kg	1.85	0.154	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Copper, Total	6.71		mg/kg	0.926	0.239	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Iron, Total	8030		mg/kg	4.63	0.836	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Lead, Total	2.59	J	mg/kg	4.63	0.248	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Magnesium, Total	1440		mg/kg	9.26	1.43	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Manganese, Total	174		mg/kg	0.926	0.147	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.074	0.016	1	03/13/19 05:40	03/14/19 15:38	EPA 7471B	1,7471B	BV
Nickel, Total	5.52		mg/kg	2.32	0.224	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Potassium, Total	272		mg/kg	232	13.3	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Selenium, Total	0.398	J	mg/kg	1.85	0.239	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.926	0.262	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Sodium, Total	66.3	J	mg/kg	185	2.92	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.85	0.292	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Vanadium, Total	8.35		mg/kg	0.926	0.188	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC
Zinc, Total	17.5		mg/kg	4.63	0.271	2	03/14/19 20:38	03/15/19 18:14	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

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): 02-04 Batch: WG1214992-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/13/19 05:40	03/14/19 14:50	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1215130-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/13/19 10:51	03/14/19 21:02	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1215163-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Antimony, Total	0.00091	J	mg/l	0.00400	0.00042	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Iron, Total	0.0413	J	mg/l	0.0500	0.0191	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Potassium, Total	ND	mg/l	0.100	0.0309	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	
Selenium, Total	ND	mg/l	0.00500	0.00173	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	
Silver, Total	ND	mg/l	0.00040	0.00016	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	
Sodium, Total	ND	mg/l	0.100	0.0293	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	
Thallium, Total	0.00027	J	mg/l	0.00050	0.00014	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM
Vanadium, Total	ND	mg/l	0.00500	0.00157	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	
Zinc, Total	ND	mg/l	0.01000	0.00341	1	03/13/19 12:00	03/14/19 09:24	1,6020B	AM	

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-04 Batch: WG1215685-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Potassium, Total	5.92	J	mg/kg	100	5.76	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Sodium, Total	6.84	J	mg/kg	80.0	1.26	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/14/19 20:38	03/15/19 14:42	1,6010D	AB



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1214992-2 SRM Lot Number: D101-540								
Mercury, Total	113		-		65-135	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215130-2								
Mercury, Total	109		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215163-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	108	-	80-120	-	
Arsenic, Total	101	-	80-120	-	
Barium, Total	104	-	80-120	-	
Beryllium, Total	106	-	80-120	-	
Cadmium, Total	109	-	80-120	-	
Calcium, Total	103	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	103	-	80-120	-	
Copper, Total	97	-	80-120	-	
Iron, Total	114	-	80-120	-	
Lead, Total	108	-	80-120	-	
Magnesium, Total	104	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	102	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Thallium, Total	103	-	80-120	-	
Vanadium, Total	102	-	80-120	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909634**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215163-2					
Zinc, Total	108	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1215685-2 SRM Lot Number: D101-540					
Aluminum, Total	73	-	50-151	-	
Antimony, Total	162	-	3-196	-	
Arsenic, Total	106	-	83-117	-	
Barium, Total	99	-	83-118	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	98	-	83-117	-	
Calcium, Total	96	-	81-119	-	
Chromium, Total	104	-	81-118	-	
Cobalt, Total	106	-	84-116	-	
Copper, Total	100	-	83-116	-	
Iron, Total	98	-	62-138	-	
Lead, Total	108	-	83-117	-	
Magnesium, Total	87	-	76-124	-	
Manganese, Total	100	-	82-118	-	
Nickel, Total	104	-	82-117	-	
Potassium, Total	90	-	71-130	-	
Selenium, Total	105	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	108	-	72-127	-	
Thallium, Total	104	-	81-119	-	
Vanadium, Total	102	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909634**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1215685-2 SRM Lot Number: D101-540					
Zinc, Total	103	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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): 02-04 QC Batch ID: WG1214992-3 QC Sample: L1909527-01 Client ID: MS Sample												
Mercury, Total	ND	0.14	0.153	109		-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1215130-3 QC Sample: L1908144-12 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00523	105		-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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 QC Batch ID: WG1215163-3 QC Sample: L1909611-01 Client ID: MS Sample									
Aluminum, Total	0.005J	2	2.16	108	-	-	75-125	-	20
Antimony, Total	0.0009J	0.5	0.6643	133	Q	-	75-125	-	20
Arsenic, Total	0.0003J	0.12	0.1259	105	-	-	75-125	-	20
Barium, Total	0.0899	2	2.167	104	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05365	107	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05268	103	-	-	75-125	-	20
Calcium, Total	68.2	10	78.3	101	-	-	75-125	-	20
Chromium, Total	0.0005J	0.2	0.1978	99	-	-	75-125	-	20
Cobalt, Total	0.0005J	0.5	0.5083	102	-	-	75-125	-	20
Copper, Total	0.0008J	0.25	0.2474	99	-	-	75-125	-	20
Iron, Total	0.042J	1	1.21	121	-	-	75-125	-	20
Lead, Total	ND	0.51	0.5435	106	-	-	75-125	-	20
Magnesium, Total	27.6	10	37.2	96	-	-	75-125	-	20
Manganese, Total	0.1392	0.5	0.6181	96	-	-	75-125	-	20
Nickel, Total	0.0020J	0.5	0.5041	101	-	-	75-125	-	20
Potassium, Total	5.45	10	15.3	98	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.129	108	-	-	75-125	-	20
Silver, Total	ND	0.05	0.05068	101	-	-	75-125	-	20
Sodium, Total	231	10	221	0	Q	-	75-125	-	20
Thallium, Total	ND	0.12	0.1227	102	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.5137	103	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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 QC Batch ID: WG1215163-3 QC Sample: L1909611-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5402	108	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

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): 02-04 QC Batch ID: WG1215685-3 QC Sample: L1909881-01 Client ID: MS Sample									
Aluminum, Total	4060	171	5050	580	Q	-	75-125	-	20
Antimony, Total	0.820J	42.7	39.0	91		-	75-125	-	20
Arsenic, Total	6.01	10.2	13.6	74	Q	-	75-125	-	20
Barium, Total	12.9	171	192	105		-	75-125	-	20
Beryllium, Total	0.220J	4.27	4.46	104		-	75-125	-	20
Cadmium, Total	ND	4.36	4.00	92		-	75-125	-	20
Calcium, Total	4350	854	4910	66	Q	-	75-125	-	20
Chromium, Total	25.3	17.1	24.0	0	Q	-	75-125	-	20
Cobalt, Total	2.48	42.7	44.8	99		-	75-125	-	20
Copper, Total	6.01	21.4	29.5	110		-	75-125	-	20
Iron, Total	13400	85.4	7420	0	Q	-	75-125	-	20
Lead, Total	16.4	43.6	64.2	110		-	75-125	-	20
Magnesium, Total	2280	854	2600	37	Q	-	75-125	-	20
Manganese, Total	155	42.7	243	206	Q	-	75-125	-	20
Nickel, Total	3.83	42.7	45.9	98		-	75-125	-	20
Potassium, Total	190J	854	1160	136	Q	-	75-125	-	20
Selenium, Total	0.423J	10.2	10.3	100		-	75-125	-	20
Silver, Total	ND	25.6	25.6	100		-	75-125	-	20
Sodium, Total	48.7J	854	1010	118		-	75-125	-	20
Thallium, Total	ND	10.2	9.87	96		-	75-125	-	20
Vanadium, Total	14.6	42.7	57.7	101		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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): 02-04 QC Batch ID: WG1215685-3 QC Sample: L1909881-01 Client ID: MS Sample									
Zinc, Total	27.8	42.7	79.2	120	-	-	75-125	-	20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1909634
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1214992-4 QC Sample: L1909527-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1215130-4 QC Sample: L1908144-12 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1215163-4 QC Sample: L1909611-01 Client ID: DUP Sample						
Cadmium, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.1392	0.1354	mg/l	3		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1215685-4 QC Sample: L1909881-01 Client ID: DUP Sample					
Aluminum, Total	4060	4100	mg/kg	1	20
Antimony, Total	0.820J	0.330J	mg/kg	NC	20
Arsenic, Total	6.01	2.79	mg/kg	73	Q 20
Barium, Total	12.9	13.9	mg/kg	7	20
Beryllium, Total	0.220J	0.156J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	4350	3940	mg/kg	10	20
Chromium, Total	25.3	7.15	mg/kg	112	Q 20
Cobalt, Total	2.48	2.76	mg/kg	11	20
Copper, Total	6.01	6.40	mg/kg	6	20
Iron, Total	13400	6510	mg/kg	69	Q 20
Lead, Total	16.4	16.9	mg/kg	3	20
Magnesium, Total	2280	2500	mg/kg	9	20
Manganese, Total	155	165	mg/kg	6	20
Nickel, Total	3.83	4.40	mg/kg	14	20
Potassium, Total	190J	222	mg/kg	NC	20
Selenium, Total	0.423J	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	48.7J	54.4J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1215685-4 QC Sample: L1909881-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	14.6	11.8	mg/kg	21 Q	20
Zinc, Total	27.8	30.2	mg/kg	8	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-01
Client ID: EB01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 11:20
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/14/19 11:35	03/14/19 13:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/13/19 06:00	03/13/19 06:27	1,7196A	MA



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-02
Client ID: RIMW5_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 12:25
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/13/19 14:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/13/19 12:10	03/14/19 11:26	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.909	0.182	1	03/13/19 16:55	03/13/19 21:00	1,7196A	AJ



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-03
Client ID: FD01_190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	03/13/19 14:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/13/19 12:10	03/14/19 11:27	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.941	0.188	1	03/13/19 16:55	03/13/19 21:00	1,7196A	AJ



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1909634-04
Client ID: RIMW6_12-14
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 16:05
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	03/13/19 14:24	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	03/13/19 12:10	03/14/19 11:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.943	0.189	1	03/13/19 16:55	03/13/19 21:00	1,7196A	AJ



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909634

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1215024-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/13/19 06:00	03/13/19 06:26	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1215139-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	03/13/19 12:10	03/14/19 11:08	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1215252-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/13/19 16:55	03/13/19 21:00	1,7196A	AJ
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1215482-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/14/19 11:35	03/14/19 13:47	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1215024-2								
Chromium, Hexavalent	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1215139-2 WG1215139-3								
Cyanide, Total	77	Q	68	Q	80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1215252-2								
Chromium, Hexavalent	81		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1215482-2 WG1215482-3								
Cyanide, Total	98		90		85-115	9		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215024-4 QC Sample: L1909634-01 Client ID: EB01_190312												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1215139-4 WG1215139-5 QC Sample: L1909563-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.2	92		9.3	90		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1215252-4 QC Sample: L1909634-04 Client ID: RIMW6_12-14												
Chromium, Hexavalent	ND	961	1010	105		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215482-4 WG1215482-5 QC Sample: L1909634-01 Client ID: EB01_190312												
Cyanide, Total	ND	0.2	0.180	90		0.177	88		80-120	2		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909634

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215024-3 QC Sample: L1909634-01 Client ID: EB01_190312						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1215223-1 QC Sample: L1909620-01 Client ID: DUP Sample						
Solids, Total	87.8	85.4	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1215252-6 QC Sample: L1909634-04 Client ID: RIMW6_12-14						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03291908:44
Lab Number: L1909634
Report Date: 03/29/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1909634-01A	Vial HCl preserved	B	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L1909634-01B	Vial HCl preserved	B	NA		3.2	Y	Absent		NYTCL-8260-R2(14)
L1909634-01C	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1909634-01D	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8082-LVI(7)
L1909634-01E	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8081(7)
L1909634-01F	Amber 120ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8081(7)
L1909634-01G	Plastic 250ml HNO3 preserved	B	<2	<2	3.2	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1909634-01H	Plastic 250ml NaOH preserved	B	>12	>12	3.2	Y	Absent		TCN-9010(14)
L1909634-01J	Plastic 250ml unpreserved	B	7	7	3.2	Y	Absent		HEXCR-7196(1)
L1909634-01K	Amber 250ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1909634-01L	Amber 250ml unpreserved	B	7	7	3.2	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1909634-02A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1909634-02B	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-02C	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-02D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	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)
L1909634-02E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03291908:44
Lab Number: L1909634
Report Date: 03/29/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1909634-02F	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1909634-02G	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909634-03A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1909634-03B	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-03C	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-03D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	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)
L1909634-03E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909634-03F	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1909634-03G	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909634-04A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1909634-04B	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-04C	Vial water preserved	B	NA		3.2	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909634-04D	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	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)
L1909634-04E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909634-04F	Plastic 2oz unpreserved for TS	B	NA		3.2	Y	Absent		TS(7)
L1909634-04G	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909634**Project Number:** 16.6334**Report Date:** 03/29/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909634
Report Date: 03/29/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

3/13/19

ALPHA Job #
L1909634

Email: K.Moline@CTMale.co

Rush (only if pre approved) ☐

of Days: _____

☐ NYC Sewer Discharge

PO #

☐ Other: _____

	Sample Specific Comments
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	
21.	
22.	
23.	
24.	
25.	
26.	
27.	
28.	
29.	
30.	
31.	
32.	
33.	
34.	
35.	
36.	
37.	
38.	
39.	
40.	
41.	
42.	
43.	
44.	
45.	
46.	
47.	
48.	
49.	
50.	
51.	
52.	
53.	
54.	
55.	
56.	
57.	
58.	
59.	
60.	
61.	
62.	
63.	
64.	
65.	
66.	
67.	
68.	
69.	
70.	
71.	
72.	
73.	
74.	
75.	
76.	
77.	
78.	
79.	
80.	
81.	
82.	
83.	
84.	
85.	
86.	
87.	
88.	
89.	
90.	
91.	
92.	
93.	
94.	
95.	
96.	
97.	
98.	
99.	
100.	

Total Bottles

[illegible]

	A	A	A	A	A		

Form No: 01-25 HC (rev. 30-Sept-2013)



ANALYTICAL REPORT

Lab Number:	L1909635
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/19/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1909635-01	RISB15_2-4	SOIL	SCHENECTADY, NY	03/12/19 14:15	03/12/19
L1909635-02	RISB15_4-6	SOIL	SCHENECTADY, NY	03/12/19 14:05	03/12/19
L1909635-03	RISB15_6-8	SOIL	SCHENECTADY, NY	03/12/19 13:50	03/12/19
L1909635-04	FD02-190312	SOIL	SCHENECTADY, NY	03/12/19 00:00	03/12/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Case Narrative (continued)

Report Submission

March 19, 2019: This final report includes the results of all requested analyses.

March 14, 2019: This is a preliminary report.

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

Total Metals

L1909635-01 and -04: 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.

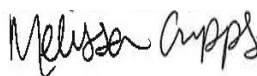
Cyanide, Total

The WG1215007-2/-3 LCS/LCSD recoveries (72%/77%), associated with L1909635-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1215139-2/-3 LCS/LCSD recoveries (77%/68%), associated with L1909635-04, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/19/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-01
 Client ID: RISB15_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/13/19 10:55
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.31	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1909635-01**Date Collected:** 03/12/19 14:15**Client ID:** RISB15_2-4**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	92	40.	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	102		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-04
 Client ID: FD02-190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/19/19 08:25
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1909635-04**Date Collected:** 03/12/19 00:00**Client ID:** FD02-190312**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
2-Hexanone	ND		ug/kg	11	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	92	40.	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	ND		ug/kg	4.6	0.69	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/13/19 09:31
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1215222-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	0.42	J	ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/13/19 09:31
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1215222-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/13/19 09:31

Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1215222-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 07:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1217146-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 07:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1217146-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 07:59
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1217146-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1215222-3 WG1215222-4								
Methylene chloride	98		93		70-130	5		30
1,1-Dichloroethane	105		100		70-130	5		30
Chloroform	98		94		70-130	4		30
Carbon tetrachloride	111		104		70-130	7		30
1,2-Dichloropropane	106		101		70-130	5		30
Dibromochloromethane	99		96		70-130	3		30
1,1,2-Trichloroethane	97		94		70-130	3		30
Tetrachloroethene	108		101		70-130	7		30
Chlorobenzene	104		100		70-130	4		30
Trichlorofluoromethane	104		95		70-139	9		30
1,2-Dichloroethane	97		93		70-130	4		30
1,1,1-Trichloroethane	107		100		70-130	7		30
Bromodichloromethane	97		93		70-130	4		30
trans-1,3-Dichloropropene	90		88		70-130	2		30
cis-1,3-Dichloropropene	94		90		70-130	4		30
Bromoform	88		86		70-130	2		30
1,1,2,2-Tetrachloroethane	96		93		70-130	3		30
Benzene	104		98		70-130	6		30
Toluene	106		101		70-130	5		30
Ethylbenzene	109		103		70-130	6		30
Chloromethane	111		103		52-130	7		30
Bromomethane	121		108		57-147	11		30
Vinyl chloride	102		95		67-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1215222-3 WG1215222-4								
Chloroethane	109		93		50-151	16		30
1,1-Dichloroethene	104		95		65-135	9		30
trans-1,2-Dichloroethene	109		102		70-130	7		30
Trichloroethene	109		102		70-130	7		30
1,2-Dichlorobenzene	100		96		70-130	4		30
1,3-Dichlorobenzene	101		97		70-130	4		30
1,4-Dichlorobenzene	98		94		70-130	4		30
Methyl tert butyl ether	101		97		66-130	4		30
p/m-Xylene	111		106		70-130	5		30
o-Xylene	109		104		70-130	5		30
cis-1,2-Dichloroethene	105		100		70-130	5		30
Styrene	99		95		70-130	4		30
Dichlorodifluoromethane	90		83		30-146	8		30
Acetone	99		92		54-140	7		30
Carbon disulfide	105		100		59-130	5		30
2-Butanone	102		101		70-130	1		30
4-Methyl-2-pentanone	99		96		70-130	3		30
2-Hexanone	98		92		70-130	6		30
Bromochloromethane	102		98		70-130	4		30
1,2-Dibromoethane	100		98		70-130	2		30
1,2-Dibromo-3-chloropropane	88		86		68-130	2		30
Isopropylbenzene	107		101		70-130	6		30
1,2,3-Trichlorobenzene	105		101		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1215222-3 WG1215222-4								
1,2,4-Trichlorobenzene	109		102		70-130	7		30
Methyl Acetate	106		99		51-146	7		30
Cyclohexane	124		114		59-142	8		30
1,4-Dioxane	101		98		65-136	3		30
Freon-113	100		95		50-139	5		30
Methyl cyclohexane	114		107		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		86		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1217146-3 WG1217146-4								
Methylene chloride	87		82		70-130	6		30
1,1-Dichloroethane	95		90		70-130	5		30
Chloroform	91		84		70-130	8		30
Carbon tetrachloride	81		77		70-130	5		30
1,2-Dichloropropane	97		93		70-130	4		30
Dibromochloromethane	86		84		70-130	2		30
1,1,2-Trichloroethane	96		91		70-130	5		30
Tetrachloroethene	87		80		70-130	8		30
Chlorobenzene	86		82		70-130	5		30
Trichlorofluoromethane	48	Q	52	Q	70-139	8		30
1,2-Dichloroethane	96		94		70-130	2		30
1,1,1-Trichloroethane	85		80		70-130	6		30
Bromodichloromethane	86		84		70-130	2		30
trans-1,3-Dichloropropene	95		93		70-130	2		30
cis-1,3-Dichloropropene	90		88		70-130	2		30
Bromoform	87		86		70-130	1		30
1,1,2,2-Tetrachloroethane	92		89		70-130	3		30
Benzene	89		85		70-130	5		30
Toluene	91		86		70-130	6		30
Ethylbenzene	89		85		70-130	5		30
Chloromethane	109		98		52-130	11		30
Bromomethane	63		63		57-147	0		30
Vinyl chloride	77		71		67-130	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1217146-3 WG1217146-4								
Chloroethane	53		67		50-151	23		30
1,1-Dichloroethene	78		80		65-135	3		30
trans-1,2-Dichloroethene	86		79		70-130	8		30
Trichloroethene	86		81		70-130	6		30
1,2-Dichlorobenzene	88		84		70-130	5		30
1,3-Dichlorobenzene	89		84		70-130	6		30
1,4-Dichlorobenzene	88		84		70-130	5		30
Methyl tert butyl ether	90		88		66-130	2		30
p/m-Xylene	87		83		70-130	5		30
o-Xylene	86		82		70-130	5		30
cis-1,2-Dichloroethene	86		82		70-130	5		30
Styrene	86		82		70-130	5		30
Dichlorodifluoromethane	76		71		30-146	7		30
Acetone	110		110		54-140	0		30
Carbon disulfide	90		92		59-130	2		30
2-Butanone	118		116		70-130	2		30
4-Methyl-2-pentanone	98		95		70-130	3		30
2-Hexanone	101		99		70-130	2		30
Bromochloromethane	88		86		70-130	2		30
1,2-Dibromoethane	89		87		70-130	2		30
1,2-Dibromo-3-chloropropane	86		85		68-130	1		30
Isopropylbenzene	88		83		70-130	6		30
1,2,3-Trichlorobenzene	88		82		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1217146-3 WG1217146-4								
1,2,4-Trichlorobenzene	87		81		70-130	7		30
Methyl Acetate	120		117		51-146	3		30
Cyclohexane	100		93		59-142	7		30
1,4-Dioxane	83		84		65-136	1		30
Freon-113	77		79		50-139	3		30
Methyl cyclohexane	84		79		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		104		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	93		95		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-01
 Client ID: RISB15_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/13/19 11:18
 Analyst: JG
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 04:05

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	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	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	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	170	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	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	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-01

Date Collected: 03/12/19 14:15

Client ID: RISB15_2-4

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	34.	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	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-01
Client ID: RISB15_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	142	J	ug/kg			1
Unknown	142	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	118		10-136
4-Terphenyl-d14	89		18-120

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-04
 Client ID: FD02-190312
 Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
 Date Received: 03/12/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/13/19 11:44
 Analyst: JG
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 04:05

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	19.	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

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1909635-04**Date Collected:** 03/12/19 00:00**Client ID:** FD02-190312**Date Received:** 03/12/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	34.	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

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-04
Client ID: FD02-190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	350	J	ug/kg			1
Unknown Amide	350	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	120		10-136
4-Terphenyl-d14	93		18-120

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/13/19 09:11
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1214963-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/13/19 09:11
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1214963-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/13/19 09:11
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 00:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1214963-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
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	77		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	117		10-136
4-Terphenyl-d14	100		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1214963-2 WG1214963-3								
Acenaphthene	79		75		31-137	5		50
Hexachlorobenzene	94		89		40-140	5		50
Bis(2-chloroethyl)ether	56		53		40-140	6		50
2-Chloronaphthalene	82		77		40-140	6		50
3,3'-Dichlorobenzidine	68		56		40-140	19		50
2,4-Dinitrotoluene	85		77		40-132	10		50
2,6-Dinitrotoluene	84		80		40-140	5		50
Fluoranthene	83		79		40-140	5		50
4-Chlorophenyl phenyl ether	90		86		40-140	5		50
4-Bromophenyl phenyl ether	94		89		40-140	5		50
Bis(2-chloroisopropyl)ether	44		42		40-140	5		50
Bis(2-chloroethoxy)methane	63		60		40-117	5		50
Hexachlorobutadiene	87		85		40-140	2		50
Hexachlorocyclopentadiene	78		74		40-140	5		50
Hexachloroethane	73		69		40-140	6		50
Isophorone	71		66		40-140	7		50
Naphthalene	70		67		40-140	4		50
Nitrobenzene	69		66		40-140	4		50
NDPA/DPA	86		82		36-157	5		50
n-Nitrosodi-n-propylamine	69		64		32-121	8		50
Bis(2-ethylhexyl)phthalate	94		90		40-140	4		50
Butyl benzyl phthalate	85		80		40-140	6		50
Di-n-butylphthalate	84		79		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1214963-2 WG1214963-3								
Di-n-octylphthalate	98		92		40-140	6		50
Diethyl phthalate	87		84		40-140	4		50
Dimethyl phthalate	79		76		40-140	4		50
Benzo(a)anthracene	85		80		40-140	6		50
Benzo(a)pyrene	94		88		40-140	7		50
Benzo(b)fluoranthene	90		87		40-140	3		50
Benzo(k)fluoranthene	89		84		40-140	6		50
Chrysene	88		85		40-140	3		50
Acenaphthylene	80		78		40-140	3		50
Anthracene	79		74		40-140	7		50
Benzo(ghi)perylene	78		73		40-140	7		50
Fluorene	83		79		40-140	5		50
Phenanthrene	73		69		40-140	6		50
Dibenzo(a,h)anthracene	82		75		40-140	9		50
Indeno(1,2,3-cd)pyrene	79		74		40-140	7		50
Pyrene	83		77		35-142	8		50
Biphenyl	83		80		54-104	4		50
4-Chloroaniline	46		42		40-140	9		50
2-Nitroaniline	75		73		47-134	3		50
3-Nitroaniline	57		53		26-129	7		50
4-Nitroaniline	70		65		41-125	7		50
Dibenzofuran	82		79		40-140	4		50
2-Methylnaphthalene	73		71		40-140	3		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1214963-2 WG1214963-3								
1,2,4,5-Tetrachlorobenzene	89		88		40-117	1		50
Acetophenone	75		74		14-144	1		50
2,4,6-Trichlorophenol	90		85		30-130	6		50
p-Chloro-m-cresol	80		77		26-103	4		50
2-Chlorophenol	72		70		25-102	3		50
2,4-Dichlorophenol	87		76		30-130	13		50
2,4-Dimethylphenol	83		79		30-130	5		50
2-Nitrophenol	75		70		30-130	7		50
4-Nitrophenol	87		80		11-114	8		50
2,4-Dinitrophenol	65		57		4-130	13		50
4,6-Dinitro-o-cresol	83		80		10-130	4		50
Pentachlorophenol	89		83		17-109	7		50
Phenol	60		57		26-90	5		50
2-Methylphenol	73		70		30-130.	4		50
3-Methylphenol/4-Methylphenol	74		71		30-130	4		50
2,4,5-Trichlorophenol	95		89		30-130	7		50
Carbazole	76		70		54-128	8		50
Atrazine	110		93		40-140	17		50
Benzaldehyde	70		64		40-140	9		50
Caprolactam	72		66		15-130	9		50
2,3,4,6-Tetrachlorophenol	98		91		40-140	7		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1214963-2 WG1214963-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		60		25-120
Phenol-d6	64		61		10-120
Nitrobenzene-d5	69		65		23-120
2-Fluorobiphenyl	77		74		30-120
2,4,6-Tribromophenol	97		95		10-136
4-Terphenyl-d14	83		77		18-120

PCBS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-01
Client ID: RISB15_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/19 02:15
Analyst: HT
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/13/19 12:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/14/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.47	1	A
Aroclor 1232	ND		ug/kg	34.6	7.34	1	A
Aroclor 1242	ND		ug/kg	34.6	4.67	1	A
Aroclor 1248	ND		ug/kg	34.6	5.19	1	A
Aroclor 1254	ND		ug/kg	34.6	3.79	1	A
Aroclor 1260	ND		ug/kg	34.6	6.40	1	A
Aroclor 1262	ND		ug/kg	34.6	4.40	1	A
Aroclor 1268	ND		ug/kg	34.6	3.59	1	A
PCBs, Total	ND		ug/kg	34.6	3.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	89		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-04
Client ID: FD02-190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/14/19 21:38
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/13/19 12:55
Cleanup Method: EPA 3665A
Cleanup Date: 03/13/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/14/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.44	1	A
Aroclor 1232	ND		ug/kg	34.4	7.28	1	A
Aroclor 1242	ND		ug/kg	34.4	4.63	1	A
Aroclor 1248	ND		ug/kg	34.4	5.15	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.35	1	A
Aroclor 1262	ND		ug/kg	34.4	4.36	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/14/19 01:32
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 00:56
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/13/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04 Batch: WG1214965-1						
Aroclor 1016	ND		ug/kg	31.7	2.81	A
Aroclor 1221	ND		ug/kg	31.7	3.17	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.27	A
Aroclor 1248	ND		ug/kg	31.7	4.75	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.02	A
Aroclor 1268	ND		ug/kg	31.7	3.28	A
PCBs, Total	ND		ug/kg	31.7	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	105		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1214965-2 WG1214965-3									
Aroclor 1016	74		79		40-140	7		50	A
Aroclor 1260	69		74		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		88		30-150	A
Decachlorobiphenyl	97		99		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		93		30-150	B
Decachlorobiphenyl	104		110		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-01
Client ID: RISB15_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/13/19 22:25
Analyst: KEG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/13/19 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 03/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.699	0.313	1	A
Alpha-BHC	ND		ug/kg	0.699	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.636	1	A
Heptachlor	ND		ug/kg	0.839	0.376	1	A
Aldrin	ND		ug/kg	1.68	0.591	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.944	1	A
Endrin	ND		ug/kg	0.699	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.734	1	A
Endrin ketone	ND		ug/kg	1.68	0.432	1	A
Dieldrin	ND		ug/kg	1.05	0.524	1	A
4,4'-DDE	ND		ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.396	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.699	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.979	1	A
Toxaphene	ND		ug/kg	31.5	8.81	1	A
cis-Chlordane	ND		ug/kg	2.10	0.585	1	A
trans-Chlordane	ND		ug/kg	2.10	0.554	1	A
Chlordane	ND		ug/kg	13.6	5.56	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-01

Date Collected: 03/12/19 14:15

Client ID: RISB15_2-4

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-04
Client ID: FD02-190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/13/19 22:37
Analyst: KEG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/13/19 04:01
Cleanup Method: EPA 3620B
Cleanup Date: 03/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.692	0.309	1	A
Alpha-BHC	ND		ug/kg	0.692	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.830	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.934	1	A
Endrin	ND		ug/kg	0.692	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.555	1	A
Endosulfan sulfate	ND		ug/kg	0.692	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	ND		ug/kg	2.07	0.578	1	A
trans-Chlordane	ND		ug/kg	2.07	0.548	1	A
Chlordane	ND		ug/kg	13.5	5.50	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-04

Date Collected: 03/12/19 00:00

Client ID: FD02-190312

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/13/19 21:52
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 01:35
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1214970-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/13/19 21:52
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/13/19 01:35
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1214970-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	105		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1214970-2 WG1214970-3									
Delta-BHC	107		98		30-150	9		30	A
Lindane	106		97		30-150	9		30	A
Alpha-BHC	114		105		30-150	8		30	A
Beta-BHC	98		90		30-150	9		30	A
Heptachlor	111		103		30-150	7		30	A
Aldrin	97		90		30-150	7		30	A
Heptachlor epoxide	91		83		30-150	9		30	A
Endrin	107		98		30-150	9		30	A
Endrin aldehyde	83		77		30-150	8		30	A
Endrin ketone	117		110		30-150	6		30	A
Dieldrin	109		101		30-150	8		30	A
4,4'-DDE	98		90		30-150	9		30	A
4,4'-DDD	107		102		30-150	5		30	A
4,4'-DDT	110		102		30-150	8		30	A
Endosulfan I	91		84		30-150	8		30	A
Endosulfan II	104		97		30-150	7		30	A
Endosulfan sulfate	106		99		30-150	7		30	A
Methoxychlor	99		93		30-150	6		30	A
cis-Chlordane	77		71		30-150	8		30	A
trans-Chlordane	94		84		30-150	11		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1214970-2 WG1214970-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		86		30-150	B
Decachlorobiphenyl	89		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		86		30-150	A
Decachlorobiphenyl	116		108		30-150	A

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-01

Date Collected: 03/12/19 14:15

Client ID: RISB15_2-4

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3650		mg/kg	8.13	2.20	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Antimony, Total	0.455	J	mg/kg	4.06	0.309	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Arsenic, Total	1.82		mg/kg	0.813	0.169	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Barium, Total	10.5		mg/kg	0.813	0.141	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Beryllium, Total	0.211	J	mg/kg	0.406	0.027	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.813	0.080	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Calcium, Total	1170		mg/kg	8.13	2.84	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Chromium, Total	4.37		mg/kg	0.813	0.078	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Cobalt, Total	3.06		mg/kg	1.63	0.135	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Copper, Total	8.92		mg/kg	0.813	0.210	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Iron, Total	8390		mg/kg	4.06	0.734	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Lead, Total	9.15		mg/kg	4.06	0.218	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Magnesium, Total	1320		mg/kg	8.13	1.25	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Manganese, Total	189		mg/kg	0.813	0.129	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/13/19 07:10	03/13/19 10:17	EPA 7471B	1,7471B	BV
Nickel, Total	6.34		mg/kg	2.03	0.197	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Potassium, Total	282		mg/kg	203	11.7	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.63	0.210	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.813	0.230	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Sodium, Total	19.8	J	mg/kg	163	2.56	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.63	0.256	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Vanadium, Total	8.22		mg/kg	0.813	0.165	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB
Zinc, Total	20.8		mg/kg	4.06	0.238	2	03/13/19 17:55	03/14/19 01:13	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1909635-04

Date Collected: 03/12/19 00:00

Client ID: FD02-190312

Date Received: 03/12/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3920		mg/kg	8.38	2.26	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Antimony, Total	0.796	J	mg/kg	4.19	0.318	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Arsenic, Total	2.82		mg/kg	0.838	0.174	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Barium, Total	12.2		mg/kg	0.838	0.146	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Beryllium, Total	0.210	J	mg/kg	0.419	0.028	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.838	0.082	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Calcium, Total	1160		mg/kg	8.38	2.93	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Chromium, Total	4.80		mg/kg	0.838	0.080	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Cobalt, Total	3.35		mg/kg	1.68	0.139	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Copper, Total	9.01		mg/kg	0.838	0.216	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Iron, Total	9080		mg/kg	4.19	0.757	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Lead, Total	7.02		mg/kg	4.19	0.225	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Magnesium, Total	1380		mg/kg	8.38	1.29	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Manganese, Total	219		mg/kg	0.838	0.133	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.066	0.014	1	03/13/19 07:10	03/13/19 10:19	EPA 7471B	1,7471B	BV
Nickel, Total	7.02		mg/kg	2.10	0.203	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Potassium, Total	350		mg/kg	210	12.1	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Selenium, Total	0.268	J	mg/kg	1.68	0.216	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.838	0.237	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Sodium, Total	31.4	J	mg/kg	168	2.64	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.68	0.264	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Vanadium, Total	8.92		mg/kg	0.838	0.170	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC
Zinc, Total	21.5		mg/kg	4.19	0.246	2	03/15/19 20:17	03/15/19 23:59	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

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): 01,04 Batch: WG1215022-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/13/19 07:10	03/13/19 09:27	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1215248-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Iron, Total	0.528	J	mg/kg	2.00	0.361	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Sodium, Total	6.20	J	mg/kg	80.0	1.26	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/13/19 17:55	03/13/19 23:04	1,6010D	AB



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

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): 04 Batch: WG1216113-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Iron, Total	ND		mg/kg	2.00	0.361	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Manganese, Total	0.124	J	mg/kg	0.400	0.064	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Sodium, Total	7.26	J	mg/kg	80.0	1.26	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/15/19 20:17	03/15/19 23:35	1,6010D	MC

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909635**Report Date:** 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1215022-2 SRM Lot Number: D101-540								
Mercury, Total	99		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215248-2 SRM Lot Number: D101-540					
Aluminum, Total	71	-	50-151	-	
Antimony, Total	164	-	3-196	-	
Arsenic, Total	106	-	83-117	-	
Barium, Total	98	-	83-118	-	
Beryllium, Total	97	-	83-117	-	
Cadmium, Total	99	-	83-117	-	
Calcium, Total	93	-	81-119	-	
Chromium, Total	99	-	81-118	-	
Cobalt, Total	102	-	84-116	-	
Copper, Total	101	-	83-116	-	
Iron, Total	96	-	62-138	-	
Lead, Total	104	-	83-117	-	
Magnesium, Total	88	-	76-124	-	
Manganese, Total	98	-	82-118	-	
Nickel, Total	102	-	82-117	-	
Potassium, Total	89	-	71-130	-	
Selenium, Total	104	-	79-121	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	99	-	72-127	-	
Thallium, Total	103	-	81-119	-	
Vanadium, Total	99	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909635**Report Date:** 03/19/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215248-2 SRM Lot Number: D101-540					
Zinc, Total	103	-	81-119	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1216113-2 SRM Lot Number: D101-540					
Aluminum, Total	71	-	50-151	-	
Antimony, Total	163	-	3-196	-	
Arsenic, Total	96	-	83-117	-	
Barium, Total	86	-	83-118	-	
Beryllium, Total	84	-	83-117	-	
Cadmium, Total	89	-	83-117	-	
Calcium, Total	88	-	81-119	-	
Chromium, Total	86	-	81-118	-	
Cobalt, Total	92	-	84-116	-	
Copper, Total	86	-	83-116	-	
Iron, Total	90	-	62-138	-	
Lead, Total	91	-	83-117	-	
Magnesium, Total	82	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	91	-	82-117	-	
Potassium, Total	84	-	71-130	-	
Selenium, Total	96	-	79-121	-	
Silver, Total	87	-	80-120	-	
Sodium, Total	94	-	72-127	-	
Thallium, Total	96	-	81-119	-	
Vanadium, Total	87	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909635**Report Date:** 03/19/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1216113-2 SRM Lot Number: D101-540					
Zinc, Total	91	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909635

Project Number: 16.6334

Report Date: 03/19/19

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): 01,04 QC Batch ID: WG1215022-3 QC Sample: L1909461-01 Client ID: MS Sample												
Mercury, Total	ND	0.162	0.154	95		-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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 QC Batch ID: WG1215248-3 WG1215248-4 QC Sample: L1909110-10 Client ID: MS Sample											
Aluminum, Total	3430	158	4360	589	Q	4180	474	Q	75-125	4	20
Antimony, Total	1.22J	39.5	36.8	93		37.3	94		75-125	1	20
Arsenic, Total	3.69	9.47	12.7	95		13.5	103		75-125	6	20
Barium, Total	67.7	158	234	105		209	89		75-125	11	20
Beryllium, Total	0.082J	3.95	4.02	102		3.88	98		75-125	4	20
Cadmium, Total	0.115J	4.02	4.17	104		3.79	94		75-125	10	20
Calcium, Total	11400	789	11700	38	Q	14900	442	Q	75-125	24	Q 20
Chromium, Total	7.34	15.8	23.5	102		22.8	98		75-125	3	20
Cobalt, Total	3.83	39.5	39.2	90		38.8	88		75-125	1	20
Copper, Total	43.1	19.7	54.2	56	Q	54.7	59	Q	75-125	1	20
Iron, Total	10200	78.9	8830	0	Q	9040	0	Q	75-125	2	20
Lead, Total	272	40.2	270	0	Q	190	0	Q	75-125	35	Q 20
Magnesium, Total	2760	789	3870	141	Q	6300	447	Q	75-125	48	Q 20
Manganese, Total	91.8	39.5	114	56	Q	118	66	Q	75-125	3	20
Nickel, Total	7.48	39.5	43.5	91		41.9	87		75-125	4	20
Potassium, Total	272	789	1120	107		1090	103		75-125	3	20
Selenium, Total	0.330J	9.47	9.43	100		8.96	94		75-125	5	20
Silver, Total	ND	23.7	23.7	100		23.6	99		75-125	0	20
Sodium, Total	109J	789	983	124		958	121		75-125	3	20
Thallium, Total	ND	9.47	8.59	91		8.42	89		75-125	2	20
Vanadium, Total	28.0	39.5	55.6	70	Q	51.9	60	Q	75-125	7	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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 QC Batch ID: WG1215248-3 WG1215248-4 QC Sample: L1909110-10 Client ID: MS Sample												
Zinc, Total	179	39.5	244	165	Q	145	0	Q	75-125	51	Q	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

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): 04 QC Batch ID: WG1216113-3 QC Sample: L1909614-05 Client ID: MS Sample									
Aluminum, Total	8240	173	8870	364	Q	-	75-125	-	20
Antimony, Total	3.16	43.2	37.6	80		-	75-125	-	20
Arsenic, Total	19.6	10.4	29.5	95		-	75-125	-	20
Barium, Total	15.8	173	167	87		-	75-125	-	20
Beryllium, Total	0.841	4.32	4.32	80		-	75-125	-	20
Cadmium, Total	ND	4.41	1.22	28	Q	-	75-125	-	20
Calcium, Total	577	865	1460	102		-	75-125	-	20
Chromium, Total	43.1	17.3	61.7	108		-	75-125	-	20
Cobalt, Total	2.80	43.2	38.0	81		-	75-125	-	20
Copper, Total	3.90	21.6	21.9	83		-	75-125	-	20
Iron, Total	48200	86.5	51800	4160	Q	-	75-125	-	20
Lead, Total	10.8	44.1	47.6	83		-	75-125	-	20
Magnesium, Total	860	865	1970	128	Q	-	75-125	-	20
Manganese, Total	26.5	43.2	74.6	111		-	75-125	-	20
Nickel, Total	6.51	43.2	40.7	79		-	75-125	-	20
Potassium, Total	2040	865	4180	247	Q	-	75-125	-	20
Selenium, Total	1.17	10.4	10.9	94		-	75-125	-	20
Silver, Total	ND	25.9	22.9	88		-	75-125	-	20
Sodium, Total	41.5J	865	892	103		-	75-125	-	20
Thallium, Total	0.327J	10.4	8.36	80		-	75-125	-	20
Vanadium, Total	71.3	43.2	119	110		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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): 04 QC Batch ID: WG1216113-3 QC Sample: L1909614-05 Client ID: MS Sample									
Zinc, Total	41.8	43.2	84.1	98	-	-	75-125	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1215022-4 QC Sample: L1909461-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1216113-4 QC Sample: L1909614-05 Client ID: DUP Sample						
Lead, Total	10.8	11.7	mg/kg	8		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-01
Client ID: RISB15_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 14:15
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	03/13/19 09:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/13/19 04:58	03/13/19 11:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.840	0.168	1	03/13/19 08:47	03/13/19 14:04	1,7196A	NH



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1909635-04
Client ID: FD02-190312
Sample Location: SCHENECTADY, NY

Date Collected: 03/12/19 00:00
Date Received: 03/12/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.7		%	0.100	NA	1	-	03/13/19 09:36	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/13/19 12:10	03/14/19 11:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.845	0.169	1	03/13/19 08:47	03/13/19 14:04	1,7196A	NH



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1215007-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	03/13/19 04:58	03/13/19 11:15	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1215061-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/13/19 08:47	03/13/19 14:04	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1215139-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	03/13/19 12:10	03/14/19 11:08	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909635

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1215007-2 WG1215007-3								
Cyanide, Total	72	Q	77	Q	80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1215061-2								
Chromium, Hexavalent	96		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1215139-2 WG1215139-3								
Cyanide, Total	77	Q	68	Q	80-120	8		35

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215007-4 WG1215007-5 QC Sample: L1909635-01 Client ID: RISB15_2-4												
Cyanide, Total	ND	10	9.4	93		9.1	94		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1215061-4 QC Sample: L1909635-01 Client ID: RISB15_2-4												
Chromium, Hexavalent	ND	1260	1220	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1215139-4 WG1215139-5 QC Sample: L1909563-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.2	92		9.3	90		75-125	1		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1215061-6 QC Sample: L1909635-01 Client ID: RISB15_2-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1215090-1 QC Sample: L1909453-04 Client ID: DUP Sample						
Solids, Total	68.6	70.3	%	2		20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03191913:22
Lab Number: L1909635
Report Date: 03/19/19

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(*)
L1909635-01A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1909635-01B	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909635-01C	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909635-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	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)
L1909635-01E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909635-01F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L1909635-01G	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909635-02A	Vial MeOH preserved	A	NA		4.0	Y	Absent		HOLD-8260HLW(14)
L1909635-02B	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	HOLD-8260HLW(14)
L1909635-02C	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	HOLD-8260HLW(14)
L1909635-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L1909635-02E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L1909635-02F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1909635-02G	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L1909635-03A	Vial MeOH preserved	A	NA		4.0	Y	Absent		HOLD-8260HLW(14)
L1909635-03B	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	HOLD-8260HLW(14)
L1909635-03C	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	HOLD-8260HLW(14)
L1909635-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	Y	Absent		HOLD-METAL(180)
L1909635-03E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L1909635-03F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		HOLD-WETCHEM()

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03191913:22
Lab Number: L1909635
Report Date: 03/19/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1909635-03G	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14)
L1909635-04A	Vial MeOH preserved	A	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1909635-04B	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909635-04C	Vial water preserved	A	NA		4.0	Y	Absent	13-MAR-19 03:35	NYTCL-8260HLW-R2(14)
L1909635-04D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.0	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)
L1909635-04E	Glass 120ml/4oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909635-04F	Plastic 2oz unpreserved for TS	A	NA		4.0	Y	Absent		TS(7)
L1909635-04G	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909635**Project Number:** 16.6334**Report Date:** 03/19/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909635
Report Date: 03/19/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, 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:	L1909887
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/20/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1909887-01	RISB16_6-8	SOIL	SCHENECTADY, NY	03/13/19 12:00	03/13/19
L1909887-02	EB01-190313	WATER	SCHENECTADY, NY	03/13/19 13:00	03/13/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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.

Total Metals

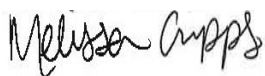
L1909887-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1215487-3 LCSD recovery (54%), associated with L1909887-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the WG1215487-2/-3 LCS/LCSD RPD (46%), is above the acceptance criteria.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/20/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-01
 Client ID: RISB16_6-8
 Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
 Date Received: 03/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 04:05
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1909887-01**Date Collected:** 03/13/19 12:00**Client ID:** RISB16_6-8**Date Received:** 03/13/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	6.7	J	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	11.4	J	ug/kg	1
Unknown	11.4	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-02
 Client ID: EB01-190313
 Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
 Date Received: 03/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 03/16/19 02:33
 Analyst: NLK

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

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1909887-02**Date Collected:** 03/13/19 13:00**Client ID:** EB01-190313**Date Received:** 03/13/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Tentatively Identified Compounds

Total TIC Compounds	1.93	J	ug/l	1
Unknown	1.93	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	89		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/15/19 20:41
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216793-5					
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: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/15/19 20:41
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216793-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/15/19 20:41
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216793-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	90		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 19:34
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1217594-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 19:34
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1217594-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/19/19 19:34
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1217594-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216793-3 WG1216793-4								
Methylene chloride	95		91		70-130	4		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	99		95		63-132	4		20
1,2-Dichloropropane	97		93		70-130	4		20
Dibromochloromethane	78		75		63-130	4		20
1,1,2-Trichloroethane	89		84		70-130	6		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	94		90		62-150	4		20
1,2-Dichloroethane	88		85		70-130	3		20
1,1,1-Trichloroethane	100		98		67-130	2		20
Bromodichloromethane	94		90		67-130	4		20
trans-1,3-Dichloropropene	86		81		70-130	6		20
cis-1,3-Dichloropropene	88		84		70-130	5		20
Bromoform	76		73		54-136	4		20
1,1,2,2-Tetrachloroethane	85		80		67-130	6		20
Benzene	100		98		70-130	2		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	88		87		64-130	1		20
Bromomethane	76		80		39-139	5		20
Vinyl chloride	91		88		55-140	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216793-3 WG1216793-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	97		92		61-145	5		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	96		95		70-130	1		20
1,2-Dichlorobenzene	96		94		70-130	2		20
1,3-Dichlorobenzene	110		100		70-130	10		20
1,4-Dichlorobenzene	100		99		70-130	1		20
Methyl tert butyl ether	85		81		63-130	5		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		100		70-130	5		20
cis-1,2-Dichloroethene	100		95		70-130	5		20
Styrene	105		100		70-130	5		20
Dichlorodifluoromethane	85		82		36-147	4		20
Acetone	76		72		58-148	5		20
Carbon disulfide	94		92		51-130	2		20
2-Butanone	85		78		63-138	9		20
4-Methyl-2-pentanone	74		66		59-130	11		20
2-Hexanone	70		66		57-130	6		20
Bromochloromethane	91		88		70-130	3		20
1,2-Dibromoethane	88		84		70-130	5		20
1,2-Dibromo-3-chloropropane	67		64		41-144	5		20
Isopropylbenzene	110		110		70-130	0		20
1,2,3-Trichlorobenzene	69	Q	64	Q	70-130	8		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216793-3 WG1216793-4								
1,2,4-Trichlorobenzene	82		76		70-130	8		20
Methyl Acetate	76		72		70-130	5		20
Cyclohexane	92		87		70-130	6		20
1,4-Dioxane	80		74		56-162	8		20
Freon-113	92		87		70-130	6		20
Methyl cyclohexane	94		89		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		87		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	95		95		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1217594-3 WG1217594-4								
Methylene chloride	85		85		70-130	0		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	99		101		70-130	2		30
1,2-Dichloropropane	90		92		70-130	2		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	93		94		70-130	1		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	115		114		70-139	1		30
1,2-Dichloroethane	93		95		70-130	2		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	98		100		70-130	2		30
trans-1,3-Dichloropropene	95		98		70-130	3		30
cis-1,3-Dichloropropene	95		98		70-130	3		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	91		91		70-130	0		30
Benzene	89		90		70-130	1		30
Toluene	92		93		70-130	1		30
Ethylbenzene	95		96		70-130	1		30
Chloromethane	70		72		52-130	3		30
Bromomethane	130		125		57-147	4		30
Vinyl chloride	72		72		67-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1217594-3 WG1217594-4								
Chloroethane	118		116		50-151	2		30
1,1-Dichloroethene	116		115		65-135	1		30
trans-1,2-Dichloroethene	88		90		70-130	2		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	100		99		70-130	1		30
1,4-Dichlorobenzene	97		94		70-130	3		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	77		80		30-146	4		30
Acetone	90		100		54-140	11		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	91		100		70-130	9		30
4-Methyl-2-pentanone	98		98		70-130	0		30
2-Hexanone	94		95		70-130	1		30
Bromochloromethane	96		97		70-130	1		30
1,2-Dibromoethane	95		96		70-130	1		30
1,2-Dibromo-3-chloropropane	98		98		68-130	0		30
Isopropylbenzene	96		95		70-130	1		30
1,2,3-Trichlorobenzene	99		99		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1217594-3 WG1217594-4								
1,2,4-Trichlorobenzene	103		101		70-130	2		30
Methyl Acetate	90		93		51-146	3		30
Cyclohexane	88		90		59-142	2		30
1,4-Dioxane	123		119		65-136	3		30
Freon-113	127		125		50-139	2		30
Methyl cyclohexane	93		94		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	103		106		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-01
 Client ID: RISB16_6-8
 Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
 Date Received: 03/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/19/19 08:14
 Analyst: ALS
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 04:54

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	100		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	92	J	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	34	J	ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1909887-01**Date Collected:** 03/13/19 12:00**Client ID:** RISB16_6-8**Date Received:** 03/13/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	70	J	ug/kg	100	30.	1
Benzo(k)fluoranthene	29	J	ug/kg	100	28.	1
Chrysene	58	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	31	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	75	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	30	J	ug/kg	140	24.	1
Pyrene	74	J	ug/kg	100	18.	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	250	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	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	230	48.	1

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-01
Client ID: RISB16_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Tentatively Identified Compounds

Total TIC Compounds	384	J	ug/kg			1
Unknown	384	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	88		18-120

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-02
 Client ID: EB01-190313
 Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
 Date Received: 03/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 03/20/19 15:16
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	5.0		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	0.44	J	ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1909887-02**Date Collected:** 03/13/19 13:00**Client ID:** EB01-190313**Date Received:** 03/13/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	32.5	J	ug/l	1
Unknown	8.94	J	ug/l	1
Unknown	2.44	J	ug/l	1
Aldol Condensates	17.6	J	ug/l	1
Unknown Organic Acid	3.53	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		21-120
Phenol-d6	76		10-120
Nitrobenzene-d5	125	Q	23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	75		41-149

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-02
Client ID: EB01-190313
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/18/19 19:38
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/17/19 10:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.03	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-02
Client ID: EB01-190313
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	86		41-149

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/18/19 04:20
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 04:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216446-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/18/19 04:20
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 04:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216446-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/18/19 04:20
 Analyst: JG

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 04:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216446-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	82		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	92		18-120

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/18/19 21:27
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216479-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/18/19 21:27
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216479-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	22.2	J	ug/l
Unknown Alcohol	1.74	J	ug/l
Unknown	1.74	J	ug/l
Aldol Condensates	16.1	J	ug/l
Unknown Alcohol	2.65	J	ug/l

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D
Analytical Date: 03/18/19 21:27
Analyst: SZExtraction Method: EPA 3510C
Extraction Date: 03/17/19 10:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216479-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	101		41-149

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 03/18/19 18:03
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1216480-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 03/18/19 18:03
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02 Batch: WG1216480-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	83		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216446-2 WG1216446-3								
Acenaphthene	104		108		31-137	4		50
Hexachlorobenzene	110		114		40-140	4		50
Bis(2-chloroethyl)ether	94		96		40-140	2		50
2-Chloronaphthalene	100		103		40-140	3		50
3,3'-Dichlorobenzidine	62		68		40-140	9		50
2,4-Dinitrotoluene	101		109		40-132	8		50
2,6-Dinitrotoluene	104		112		40-140	7		50
Fluoranthene	103		107		40-140	4		50
4-Chlorophenyl phenyl ether	108		112		40-140	4		50
4-Bromophenyl phenyl ether	110		114		40-140	4		50
Bis(2-chloroisopropyl)ether	99		99		40-140	0		50
Bis(2-chloroethoxy)methane	106		106		40-117	0		50
Hexachlorobutadiene	88		91		40-140	3		50
Hexachlorocyclopentadiene	93		98		40-140	5		50
Hexachloroethane	90		90		40-140	0		50
Isophorone	108		108		40-140	0		50
Naphthalene	93		97		40-140	4		50
Nitrobenzene	105		106		40-140	1		50
NDPA/DPA	113		119		36-157	5		50
n-Nitrosodi-n-propylamine	107		108		32-121	1		50
Bis(2-ethylhexyl)phthalate	121		126		40-140	4		50
Butyl benzyl phthalate	108		115		40-140	6		50
Di-n-butylphthalate	105		108		40-140	3		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216446-2 WG1216446-3								
Di-n-octylphthalate	121		127		40-140	5		50
Diethyl phthalate	112		116		40-140	4		50
Dimethyl phthalate	109		113		40-140	4		50
Benzo(a)anthracene	110		115		40-140	4		50
Benzo(a)pyrene	117		125		40-140	7		50
Benzo(b)fluoranthene	111		121		40-140	9		50
Benzo(k)fluoranthene	115		120		40-140	4		50
Chrysene	110		114		40-140	4		50
Acenaphthylene	105		110		40-140	5		50
Anthracene	99		102		40-140	3		50
Benzo(ghi)perylene	105		109		40-140	4		50
Fluorene	108		114		40-140	5		50
Phenanthrene	97		100		40-140	3		50
Dibenzo(a,h)anthracene	103		108		40-140	5		50
Indeno(1,2,3-cd)pyrene	104		108		40-140	4		50
Pyrene	103		108		35-142	5		50
Biphenyl	107	Q	108	Q	54-104	1		50
4-Chloroaniline	52		59		40-140	13		50
2-Nitroaniline	113		121		47-134	7		50
3-Nitroaniline	69		80		26-129	15		50
4-Nitroaniline	127	Q	135	Q	41-125	6		50
Dibenzofuran	107		111		40-140	4		50
2-Methylnaphthalene	95		100		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216446-2 WG1216446-3								
1,2,4,5-Tetrachlorobenzene	104		108		40-117	4		50
Acetophenone	100		102		14-144	2		50
2,4,6-Trichlorophenol	106		112		30-130	6		50
p-Chloro-m-cresol	115	Q	120	Q	26-103	4		50
2-Chlorophenol	101		100		25-102	1		50
2,4-Dichlorophenol	107		110		30-130	3		50
2,4-Dimethylphenol	115		116		30-130	1		50
2-Nitrophenol	105		110		30-130	5		50
4-Nitrophenol	142	Q	150	Q	11-114	5		50
2,4-Dinitrophenol	100		109		4-130	9		50
4,6-Dinitro-o-cresol	116		130		10-130	11		50
Pentachlorophenol	109		115	Q	17-109	5		50
Phenol	103	Q	103	Q	26-90	0		50
2-Methylphenol	107		107		30-130	0		50
3-Methylphenol/4-Methylphenol	108		109		30-130	1		50
2,4,5-Trichlorophenol	114		121		30-130	6		50
Carbazole	102		104		54-128	2		50
Atrazine	122		127		40-140	4		50
Benzaldehyde	87		86		40-140	1		50
Caprolactam	130		137	Q	15-130	5		50
2,3,4,6-Tetrachlorophenol	106		113		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216446-2 WG1216446-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	97		97		25-120
Phenol-d6	96		96		10-120
Nitrobenzene-d5	99		103		23-120
2-Fluorobiphenyl	93		97		30-120
2,4,6-Tribromophenol	108		113		10-136
4-Terphenyl-d14	95		100		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216479-2 WG1216479-3								
Bis(2-chloroethyl)ether	77		74		40-140	4		30
3,3'-Dichlorobenzidine	52		58		40-140	11		30
2,4-Dinitrotoluene	90		87		48-143	3		30
2,6-Dinitrotoluene	86		82		40-140	5		30
4-Chlorophenyl phenyl ether	90		88		40-140	2		30
4-Bromophenyl phenyl ether	94		92		40-140	2		30
Bis(2-chloroisopropyl)ether	75		72		40-140	4		30
Bis(2-chloroethoxy)methane	82		79		40-140	4		30
Hexachlorocyclopentadiene	76		75		40-140	1		30
Isophorone	84		81		40-140	4		30
Nitrobenzene	79		77		40-140	3		30
NDPA/DPA	91		88		40-140	3		30
n-Nitrosodi-n-propylamine	84		82		29-132	2		30
Bis(2-ethylhexyl)phthalate	108		105		40-140	3		30
Butyl benzyl phthalate	89		84		40-140	6		30
Di-n-butylphthalate	106		101		40-140	5		30
Di-n-octylphthalate	104		96		40-140	8		30
Diethyl phthalate	98		95		40-140	3		30
Dimethyl phthalate	93		89		40-140	4		30
Biphenyl	83		84		40-140	1		30
4-Chloroaniline	41		45		40-140	9		30
2-Nitroaniline	74		74		52-143	0		30
3-Nitroaniline	58		64		25-145	10		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216479-2 WG1216479-3								
4-Nitroaniline	69		63		51-143	9		30
Dibenzofuran	86		86		40-140	0		30
1,2,4,5-Tetrachlorobenzene	81		81		2-134	0		30
Acetophenone	87		83		39-129	5		30
2,4,6-Trichlorophenol	88		90		30-130	2		30
p-Chloro-m-cresol	91		89		23-97	2		30
2-Chlorophenol	81		78		27-123	4		30
2,4-Dichlorophenol	85		84		30-130	1		30
2,4-Dimethylphenol	33		38		30-130	14		30
2-Nitrophenol	70		72		30-130	3		30
4-Nitrophenol	78		71		10-80	9		30
2,4-Dinitrophenol	83		83		20-130	0		30
4,6-Dinitro-o-cresol	87		87		20-164	0		30
Phenol	57		54		12-110	5		30
3-Methylphenol/4-Methylphenol	74		74		30-130	0		30
2,4,5-Trichlorophenol	97		89		30-130	9		30
Carbazole	101		94		55-144	7		30
Atrazine	118		111		40-140	6		30
Benzaldehyde	84		81		40-140	4		30
Caprolactam	47		46		10-130	2		30
2,3,4,6-Tetrachlorophenol	93		88		40-140	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216479-2 WG1216479-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	68		65		21-120
Phenol-d6	56		52		10-120
Nitrobenzene-d5	75		77		23-120
2-Fluorobiphenyl	82		82		15-120
2,4,6-Tribromophenol	92		87		10-120
4-Terphenyl-d14	101		93		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1216480-2 WG1216480-3								
Acenaphthene	79		97		40-140	20		40
2-Chloronaphthalene	78		94		40-140	19		40
Fluoranthene	90		95		40-140	5		40
Hexachlorobutadiene	85		96		40-140	12		40
Naphthalene	70		82		40-140	16		40
Benzo(a)anthracene	101		107		40-140	6		40
Benzo(a)pyrene	98		86		40-140	13		40
Benzo(b)fluoranthene	113		90		40-140	23		40
Benzo(k)fluoranthene	115		91		40-140	23		40
Chrysene	111		103		40-140	7		40
Acenaphthylene	80		97		40-140	19		40
Anthracene	85		98		40-140	14		40
Benzo(ghi)perylene	90		82		40-140	9		40
Fluorene	91		100		40-140	9		40
Phenanthrene	80		93		40-140	15		40
Dibenzo(a,h)anthracene	109		85		40-140	25		40
Indeno(1,2,3-cd)pyrene	109		85		40-140	25		40
Pyrene	97		95		40-140	2		40
2-Methylnaphthalene	73		93		40-140	24		40
Pentachlorophenol	82		101		40-140	21		40
Hexachlorobenzene	96		102		40-140	6		40
Hexachloroethane	62		76		40-140	20		40

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02 Batch: WG1216480-2 WG1216480-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		59		21-120
Phenol-d6	40		48		10-120
Nitrobenzene-d5	65		86		23-120
2-Fluorobiphenyl	78		90		15-120
2,4,6-Tribromophenol	78		80		10-120
4-Terphenyl-d14	77		85		41-149

PCBS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-01
Client ID: RISB16_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/18/19 06:03
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/17/19 01:17
Cleanup Method: EPA 3665A
Cleanup Date: 03/17/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.15	1	A
Aroclor 1221	ND		ug/kg	35.4	3.55	1	A
Aroclor 1232	ND		ug/kg	35.4	7.51	1	A
Aroclor 1242	ND		ug/kg	35.4	4.78	1	A
Aroclor 1248	ND		ug/kg	35.4	5.32	1	A
Aroclor 1254	19.8	J	ug/kg	35.4	3.88	1	B
Aroclor 1260	16.5	J	ug/kg	35.4	6.55	1	B
Aroclor 1262	ND		ug/kg	35.4	4.50	1	A
Aroclor 1268	6.56	J	ug/kg	35.4	3.67	1	B
PCBs, Total	42.9	J	ug/kg	35.4	3.15	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	97		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-02
Client ID: EB01-190313
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/17/19 18:25
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 03/15/19 20:17
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.082	0.034	1	A
Aroclor 1221	ND		ug/l	0.082	0.066	1	A
Aroclor 1232	ND		ug/l	0.082	0.045	1	A
Aroclor 1242	ND		ug/l	0.082	0.038	1	A
Aroclor 1248	ND		ug/l	0.082	0.048	1	A
Aroclor 1254	ND		ug/l	0.082	0.039	1	A
Aroclor 1260	ND		ug/l	0.082	0.032	1	A
Aroclor 1262	ND		ug/l	0.082	0.034	1	A
Aroclor 1268	ND		ug/l	0.082	0.033	1	A
PCBs, Total	ND		ug/l	0.082	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/17/19 18:38
 Analyst: WR

Extraction Method: EPA 3510C
 Extraction Date: 03/15/19 15:39
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1216090-1						
Aroclor 1016	ND		ug/l	0.082	0.034	A
Aroclor 1221	ND		ug/l	0.082	0.066	A
Aroclor 1232	ND		ug/l	0.082	0.045	A
Aroclor 1242	ND		ug/l	0.082	0.038	A
Aroclor 1248	ND		ug/l	0.082	0.048	A
Aroclor 1254	ND		ug/l	0.082	0.039	A
Aroclor 1260	ND		ug/l	0.082	0.032	A
Aroclor 1262	ND		ug/l	0.082	0.034	A
Aroclor 1268	ND		ug/l	0.082	0.033	A
PCBs, Total	ND		ug/l	0.082	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/18/19 04:07
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 01:17
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/17/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1216440-1						
Aroclor 1016	ND		ug/kg	33.1	2.94	A
Aroclor 1221	ND		ug/kg	33.1	3.31	A
Aroclor 1232	ND		ug/kg	33.1	7.01	A
Aroclor 1242	ND		ug/kg	33.1	4.46	A
Aroclor 1248	ND		ug/kg	33.1	4.96	A
Aroclor 1254	ND		ug/kg	33.1	3.62	A
Aroclor 1260	ND		ug/kg	33.1	6.11	A
Aroclor 1262	ND		ug/kg	33.1	4.20	A
Aroclor 1268	ND		ug/kg	33.1	3.42	A
PCBs, Total	ND		ug/kg	33.1	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	89		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1216090-2 WG1216090-3									
Aroclor 1016	62		57		40-140	8		50	A
Aroclor 1260	72		66		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		63		30-150	A
Decachlorobiphenyl	107		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	83		81		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216440-2 WG1216440-3									
Aroclor 1016	86		88		40-140	2		50	A
Aroclor 1260	72		78		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		109		30-150	A
Decachlorobiphenyl	73		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		106		30-150	B
Decachlorobiphenyl	87		92		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-01
 Client ID: RISB16_6-8
 Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
 Date Received: 03/13/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/18/19 21:10
 Analyst: BM
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 00:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.684	0.306	1	A
Alpha-BHC	0.974	IP	ug/kg	0.684	0.194	1	B
Beta-BHC	ND		ug/kg	1.64	0.623	1	A
Heptachlor	ND		ug/kg	0.821	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.578	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.924	1	A
Endrin	ND		ug/kg	0.684	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.718	1	A
Endrin ketone	ND		ug/kg	1.64	0.423	1	A
Dieldrin	ND		ug/kg	1.03	0.513	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.586	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.549	1	A
Endosulfan sulfate	ND		ug/kg	0.684	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.958	1	A
Toxaphene	ND		ug/kg	30.8	8.62	1	A
cis-Chlordane	1.10	J	ug/kg	2.05	0.572	1	A
trans-Chlordane	ND		ug/kg	2.05	0.542	1	A
Chlordane	ND		ug/kg	13.3	5.44	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-01

Date Collected: 03/13/19 12:00

Client ID: RISB16_6-8

Date Received: 03/13/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	106		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-02
Client ID: EB01-190313
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/19/19 01:27
Analyst: BM

Extraction Method: EPA 3510C
Extraction Date: 03/17/19 15:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-02

Date Collected: 03/13/19 13:00

Client ID: EB01-190313

Date Received: 03/13/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	33		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/18/19 19:01
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 00:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216434-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.664	0.297	A
Alpha-BHC	ND		ug/kg	0.664	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.604	A
Heptachlor	ND		ug/kg	0.796	0.357	A
Aldrin	ND		ug/kg	1.59	0.561	A
Heptachlor epoxide	ND		ug/kg	2.99	0.896	A
Endrin	ND		ug/kg	0.664	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.697	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.995	0.498	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.568	A
4,4'-DDT	ND		ug/kg	2.99	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.532	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.929	A
Toxaphene	ND		ug/kg	29.9	8.36	A
cis-Chlordane	ND		ug/kg	1.99	0.555	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	12.9	5.28	A

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/18/19 19:01
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/17/19 00:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216434-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	114		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/19/19 00:52
 Analyst: BM

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1216474-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 03/19/19 00:52
 Analyst: BM

Extraction Method: EPA 3510C
 Extraction Date: 03/17/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1216474-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	59		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216434-2 WG1216434-3									
Delta-BHC	100		98		30-150	2		30	A
Lindane	101		100		30-150	1		30	A
Alpha-BHC	109		110		30-150	1		30	A
Beta-BHC	98		99		30-150	1		30	A
Heptachlor	108		112		30-150	4		30	A
Aldrin	103		98		30-150	5		30	A
Heptachlor epoxide	90		84		30-150	7		30	A
Endrin	107		106		30-150	1		30	A
Endrin aldehyde	75		65		30-150	14		30	A
Endrin ketone	100		91		30-150	9		30	A
Dieldrin	110		107		30-150	3		30	A
4,4'-DDE	103		100		30-150	3		30	A
4,4'-DDD	109		107		30-150	2		30	A
4,4'-DDT	113		111		30-150	2		30	A
Endosulfan I	96		92		30-150	4		30	A
Endosulfan II	98		94		30-150	4		30	A
Endosulfan sulfate	87		77		30-150	12		30	A
Methoxychlor	93		90		30-150	3		30	A
cis-Chlordane	83		76		30-150	9		30	A
trans-Chlordane	70		83		30-150	17		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216434-2 WG1216434-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	B
Decachlorobiphenyl	85		83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		78		30-150	A
Decachlorobiphenyl	104		95		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1216474-2 WG1216474-3									
Delta-BHC	69		69		30-150	1		20	A
Lindane	82		82		30-150	1		20	A
Alpha-BHC	85		84		30-150	1		20	A
Beta-BHC	74		75		30-150	1		20	A
Heptachlor	79		80		30-150	1		20	A
Aldrin	77		76		30-150	1		20	A
Heptachlor epoxide	73		74		30-150	1		20	A
Endrin	82		82		30-150	0		20	A
Endrin aldehyde	55		55		30-150	1		20	A
Endrin ketone	87		87		30-150	0		20	A
Dieldrin	85		85		30-150	1		20	A
4,4'-DDE	80		81		30-150	1		20	A
4,4'-DDD	83		83		30-150	0		20	A
4,4'-DDT	81		80		30-150	2		20	A
Endosulfan I	75		76		30-150	1		20	A
Endosulfan II	78		76		30-150	2		20	A
Endosulfan sulfate	80		79		30-150	1		20	A
Methoxychlor	75		75		30-150	0		20	A
cis-Chlordane	68		67		30-150	2		20	A
trans-Chlordane	75		76		30-150	1		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1216474-2 WG1216474-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		69		30-150	A
Decachlorobiphenyl	84		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		68		30-150	B
Decachlorobiphenyl	61		64		30-150	B

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-01

Date Collected: 03/13/19 12:00

Client ID: RISB16_6-8

Date Received: 03/13/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3240		mg/kg	8.47	2.29	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Antimony, Total	0.474	J	mg/kg	4.24	0.322	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Arsenic, Total	2.36		mg/kg	0.847	0.176	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Barium, Total	22.9		mg/kg	0.847	0.147	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Beryllium, Total	0.136	J	mg/kg	0.424	0.028	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.847	0.083	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Calcium, Total	10100		mg/kg	8.47	2.96	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Chromium, Total	5.02		mg/kg	0.847	0.081	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Cobalt, Total	3.45		mg/kg	1.69	0.141	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Copper, Total	9.22		mg/kg	0.847	0.219	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Iron, Total	9180		mg/kg	4.24	0.765	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Lead, Total	21.2		mg/kg	4.24	0.227	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Magnesium, Total	3330		mg/kg	8.47	1.30	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Manganese, Total	253		mg/kg	0.847	0.135	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.069	0.015	1	03/15/19 19:00	03/16/19 12:06	EPA 7471B	1,7471B	BV
Nickel, Total	7.37		mg/kg	2.12	0.205	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Potassium, Total	323		mg/kg	212	12.2	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Selenium, Total	0.347	J	mg/kg	1.69	0.219	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.847	0.240	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Sodium, Total	55.3	J	mg/kg	169	2.67	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.69	0.267	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Vanadium, Total	8.92		mg/kg	0.847	0.172	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC
Zinc, Total	39.5		mg/kg	4.24	0.248	2	03/14/19 18:00	03/15/19 21:50	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1909887-02

Date Collected: 03/13/19 13:00

Client ID: EB01-190313

Date Received: 03/13/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.66		mg/l	0.100	0.0327	10	03/14/19 16:20	03/15/19 14:25	EPA 3005A	1,6020B	AM
Antimony, Total	0.00253	J	mg/l	0.00400	0.00042	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00118		mg/l	0.00050	0.00016	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Barium, Total	0.02258		mg/l	0.00050	0.00017	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00011	J	mg/l	0.00050	0.00010	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Calcium, Total	19.8		mg/l	0.100	0.0394	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Chromium, Total	0.01504		mg/l	0.00100	0.00017	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00151		mg/l	0.00050	0.00016	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Copper, Total	0.00950		mg/l	0.00100	0.00038	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Iron, Total	5.46		mg/l	0.0500	0.0191	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Lead, Total	0.01007		mg/l	0.00100	0.00034	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Magnesium, Total	2.78		mg/l	0.0700	0.0242	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Manganese, Total	0.1221		mg/l	0.00100	0.00044	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/14/19 11:25	03/14/19 20:24	EPA 7470A	1,7470A	EA
Nickel, Total	0.00529		mg/l	0.00200	0.00055	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Potassium, Total	0.658		mg/l	0.100	0.0309	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Silver, Total	0.00050		mg/l	0.00040	0.00016	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Sodium, Total	0.748		mg/l	0.100	0.0293	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Thallium, Total	0.00016	J	mg/l	0.00050	0.00014	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00334	J	mg/l	0.00500	0.00157	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM
Zinc, Total	0.02288		mg/l	0.01000	0.00341	1	03/14/19 16:20	03/15/19 13:53	EPA 3005A	1,6020B	AM



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

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): 02 Batch: WG1215537-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/14/19 11:25	03/14/19 20:07	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1215629-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Antimony, Total	0.00046	J	mg/l	0.00400	0.00042	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/14/19 16:20	03/15/19 11:23	1,6020B	AM

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1215671-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Iron, Total	1.32	J	mg/kg	2.00	0.361	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Sodium, Total	3.00	J	mg/kg	80.0	1.26	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/14/19 18:00	03/15/19 17:53	1,6010D	MC

Prep Information

Digestion Method: EPA 3050B



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1909887**Project Number:** 16.6334**Report Date:** 03/20/19

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 Batch: WG1216105-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/15/19 19:00	03/16/19 11:11	1,7471B	BV

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909887**Report Date:** 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1215537-2								
Mercury, Total	105		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1215629-2					
Aluminum, Total	111	-	80-120	-	
Antimony, Total	117	-	80-120	-	
Arsenic, Total	106	-	80-120	-	
Barium, Total	107	-	80-120	-	
Beryllium, Total	114	-	80-120	-	
Cadmium, Total	115	-	80-120	-	
Calcium, Total	114	-	80-120	-	
Chromium, Total	109	-	80-120	-	
Cobalt, Total	110	-	80-120	-	
Copper, Total	106	-	80-120	-	
Iron, Total	104	-	80-120	-	
Lead, Total	110	-	80-120	-	
Magnesium, Total	109	-	80-120	-	
Manganese, Total	106	-	80-120	-	
Nickel, Total	111	-	80-120	-	
Potassium, Total	102	-	80-120	-	
Selenium, Total	113	-	80-120	-	
Silver, Total	114	-	80-120	-	
Sodium, Total	104	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	110	-	80-120	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909887**Report Date:** 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1215629-2					
Zinc, Total	118	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215671-2 SRM Lot Number: D101-540					
Aluminum, Total	78	-	50-151	-	
Antimony, Total	162	-	3-196	-	
Arsenic, Total	103	-	83-117	-	
Barium, Total	99	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	106	-	83-117	-	
Calcium, Total	97	-	81-119	-	
Chromium, Total	102	-	81-118	-	
Cobalt, Total	104	-	84-116	-	
Copper, Total	99	-	83-116	-	
Iron, Total	107	-	62-138	-	
Lead, Total	97	-	83-117	-	
Magnesium, Total	90	-	76-124	-	
Manganese, Total	99	-	82-118	-	
Nickel, Total	104	-	82-117	-	
Potassium, Total	88	-	71-130	-	
Selenium, Total	105	-	79-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	102	-	72-127	-	
Thallium, Total	108	-	81-119	-	
Vanadium, Total	108	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1215671-2 SRM Lot Number: D101-540					
Zinc, Total	102	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1216105-2 SRM Lot Number: D101-540					
Mercury, Total	109	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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): 02 QC Batch ID: WG1215537-3 QC Sample: L1908751-30 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00523	105		-	-		75-125	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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): 02 QC Batch ID: WG1215629-3 QC Sample: L1909531-01 Client ID: MS Sample									
Aluminum, Total	37.4	2	47.9	525	Q	-	75-125	-	20
Antimony, Total	0.0023J	0.5	0.04809	10	Q	-	75-125	-	20
Arsenic, Total	0.0924	0.12	0.2287	114		-	75-125	-	20
Barium, Total	20.13	2	21.43	65	Q	-	75-125	-	20
Beryllium, Total	0.0022	0.05	0.05216	100		-	75-125	-	20
Cadmium, Total	0.0107	0.051	0.06287	102		-	75-125	-	20
Calcium, Total	387	10	412	250	Q	-	75-125	-	20
Chromium, Total	0.1741	0.2	0.3621	94		-	75-125	-	20
Cobalt, Total	0.0387	0.5	0.5417	101		-	75-125	-	20
Copper, Total	5.460	0.25	8.683	1290	Q	-	75-125	-	20
Iron, Total	196	1	200	400	Q	-	75-125	-	20
Lead, Total	0.4576	0.51	0.9149	90		-	75-125	-	20
Magnesium, Total	66.7	10	85.2	185	Q	-	75-125	-	20
Manganese, Total	24.51	0.5	26.08	314	Q	-	75-125	-	20
Nickel, Total	0.2043	0.5	0.7188	103		-	75-125	-	20
Potassium, Total	83.2	10	97.6	144	Q	-	75-125	-	20
Selenium, Total	0.015	0.12	0.0255	9	Q	-	75-125	-	20
Silver, Total	ND	0.05	0.00218	4	Q	-	75-125	-	20
Sodium, Total	106	10	121	150	Q	-	75-125	-	20
Thallium, Total	0.0015	0.12	0.1116	92		-	75-125	-	20
Vanadium, Total	0.0627	0.5	0.5493	97		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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): 02 QC Batch ID: WG1215629-3 QC Sample: L1909531-01 Client ID: MS Sample									
Zinc, Total	11.94	0.5	14.68	548	Q	-	-	75-125	- 20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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 QC Batch ID: WG1215671-3 WG1215671-4 QC Sample: L1909813-02 Client ID: MS Sample											
Aluminum, Total	5560	236	7150	675	Q	7140	683	Q	75-125	0	20
Antimony, Total	2.54J	58.9	52.0	88		52.2	90		75-125	0	20
Arsenic, Total	9.50	14.1	22.4	91		24.2	106		75-125	8	20
Barium, Total	304	236	511	88		529	97		75-125	3	20
Beryllium, Total	0.228J	5.89	5.69	97		5.86	101		75-125	3	20
Cadmium, Total	ND	6	5.00	83		5.17	88		75-125	3	20
Calcium, Total	28100	1180	27700	0	Q	34600	562	Q	75-125	22	Q 20
Chromium, Total	15.2	23.6	38.6	99		38.7	102		75-125	0	20
Cobalt, Total	5.10	58.9	57.7	89		58.6	92		75-125	2	20
Copper, Total	144	29.4	131	0	Q	138	0	Q	75-125	5	20
Iron, Total	13800	118	15300	1270	Q	14100	259	Q	75-125	8	20
Lead, Total	963	60	1440	794	Q	1020	97		75-125	34	Q 20
Magnesium, Total	3110	1180	4620	128	Q	4660	134	Q	75-125	1	20
Manganese, Total	572	58.9	503	0	Q	539	0	Q	75-125	7	20
Nickel, Total	12.0	58.9	64.2	89		64.8	91		75-125	1	20
Potassium, Total	714	1180	2050	113		2100	120		75-125	2	20
Selenium, Total	1.40J	14.1	14.6	103		15.3	110		75-125	5	20
Silver, Total	ND	35.3	32.7	92		33.6	97		75-125	3	20
Sodium, Total	283	1180	1540	107		1560	110		75-125	1	20
Thallium, Total	ND	14.1	11.6	82		11.8	85		75-125	2	20
Vanadium, Total	16.2	58.9	76.4	102		75.2	102		75-125	2	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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 QC Batch ID: WG1215671-3 WG1215671-4 QC Sample: L1909813-02 Client ID: MS Sample									
Zinc, Total	249	58.9	303	92	290	71	Q 75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1216105-3 QC Sample: L1910146-06 Client ID: MS Sample									
Mercury, Total	ND	0.14	0.162	116	-	-	80-120	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1215537-4 QC Sample: L1908751-30 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1216105-4 QC Sample: L1910146-06 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-01
Client ID: RISB16_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 12:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	03/14/19 13:55	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/14/19 10:30	03/14/19 12:53	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.868	0.174	1	03/14/19 06:48	03/14/19 13:32	1,7196A	NH



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1909887-02
Client ID: EB01-190313
Sample Location: SCHENECTADY, NY

Date Collected: 03/13/19 13:00
Date Received: 03/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/14/19 11:35	03/14/19 14:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/14/19 05:15	03/14/19 05:29	1,7196A	MA



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1909887

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1215398-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/14/19 05:15	03/14/19 05:27	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1215416-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/14/19 06:48	03/14/19 13:32	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1215482-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/14/19 11:35	03/14/19 13:47	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1215487-1										
Cyanide, Total	ND		mg/kg	0.99	0.21	1	03/14/19 10:30	03/14/19 12:36	1,9010C/9012B	LH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1909887**Report Date:** 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1215398-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1215416-2								
Chromium, Hexavalent	92		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1215482-2 WG1215482-3								
Cyanide, Total	98		90		85-115	9		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1215487-2 WG1215487-3								
Cyanide, Total	80		54	Q	80-120	46	Q	35

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1215398-4 QC Sample: L1909887-02 Client ID: EB01-190313												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215416-4 QC Sample: L1909887-01 Client ID: RISB16_6-8												
Chromium, Hexavalent	ND	934	1040	111		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1215482-4 WG1215482-5 QC Sample: L1909634-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.180	90		0.177	88		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215487-4 WG1215487-5 QC Sample: L1909720-01 Client ID: MS Sample												
Cyanide, Total	ND	9.9	8.8	88		9.2	94		75-125	4		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1909887

Report Date: 03/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1215398-3 QC Sample: L1909887-02 Client ID: EB01-190313						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215416-6 QC Sample: L1909887-01 Client ID: RISB16_6-8						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1215565-1 QC Sample: L1909881-01 Client ID: DUP Sample						
Solids, Total	87.7	88.6	%	1		20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03201917:02
Lab Number: L1909887
Report Date: 03/20/19

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(*)
L1909887-01A	Vial MeOH preserved	A	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1909887-01B	Vial water preserved	A	NA		3.9	Y	Absent	14-MAR-19 02:52	NYTCL-8260HLW-R2(14)
L1909887-01C	Vial water preserved	A	NA		3.9	Y	Absent	14-MAR-19 02:52	NYTCL-8260HLW-R2(14)
L1909887-01D	Plastic 2oz unpreserved for TS	A	NA		3.9	Y	Absent		TS(7)
L1909887-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	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)
L1909887-01F	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909887-01G	Glass 250ml/8oz unpreserved	A	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1909887-02A	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1909887-02B	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1909887-02C	Vial HCl preserved	A	NA		3.9	Y	Absent		NYTCL-8260-R2(14)
L1909887-02D	Plastic 250ml unpreserved	A	7	7	3.9	Y	Absent		HEXCR-7196(1)
L1909887-02E	Plastic 250ml HNO3 preserved	A	<2	<2	3.9	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1909887-02F	Plastic 250ml NaOH preserved	A	>12	>12	3.9	Y	Absent		TCN-9010(14)
L1909887-02G	Amber 120ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8082-LVI(7)
L1909887-02H	Amber 120ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8082-LVI(7)
L1909887-02I	Amber 120ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Serial_No: 03201917:02
Lab Number: L1909887
Report Date: 03/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1909887-02J	Amber 120ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8081(7)
L1909887-02K	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1909887-02L	Amber 250ml unpreserved	A	7	7	3.9	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1909887
Report Date: 03/20/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate. **EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/14/19		ALPHA Job # 41904887																																																																																																																																									
		Project Information Project Name: <u>Hamilton Hill II - TAZ Site</u> Project Location: <u>Schenectady</u> Project # <u>16-0334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #																																																																																																																																											
Client Information Client: <u>TMale Associates</u> Address: <u>50 Century Hill Drive</u> <u>Latham NY 12110</u> Phone: <u>518-786-7400</u> Fax: <u>A.Smith@tmale.com</u> Email: <u>K.Moline@tmale.com</u>		Project Manager: <u>Kirk Moline</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																											
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																											
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th>TCL</th> <th>TCL</th> <th>TCL</th> <th>TCL</th> <th>TAL</th> <th rowspan="2">includes mercury, hexachlorine, cyclotrimethylsilane</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>VOL</th> <th>SVOL</th> <th>Pos.</th> <th>PCB</th> <th>Metals</th> </tr> </thead> <tbody> <tr> <td>09887-01</td> <td>RISB16-6-8-14017²⁰</td> <td>3/13/19</td> <td>1200</td> <td>Soil</td> <td>RL</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>-02</td> <td>EB01-190313</td> <td></td> <td>1300</td> <td>Water</td> <td>AL</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	TCL	TCL	TCL	TCL	TAL	includes mercury, hexachlorine, cyclotrimethylsilane	Date	Time	VOL	SVOL	Pos.	PCB	Metals	09887-01	RISB16-6-8-14017 ²⁰	3/13/19	1200	Soil	RL	X	X	X	X	X	X	-02	EB01-190313		1300	Water	AL	X	X	X	X	X	X																																																																																																	Sample Specific Comments	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection					Sample Matrix	Sampler's Initials			TCL	TCL	TCL	TCL	TAL		includes mercury, hexachlorine, cyclotrimethylsilane																																																																																																																																
		Date	Time	VOL	SVOL				Pos.	PCB	Metals																																																																																																																																						
09887-01	RISB16-6-8-14017 ²⁰	3/13/19	1200	Soil	RL		X	X	X	X	X	X																																																																																																																																					
-02	EB01-190313		1300	Water	AL		X	X	X	X	X	X																																																																																																																																					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type VA A A A A/P A/P Preservative F/B A A A A/C A/E		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																									
Relinquished By: <u>[Signature]</u> Date/Time: <u>3/13/19 17:50</u> <u>[Signature]</u> <u>3-13-19 17:50</u>		Received By: <u>[Signature]</u> Date/Time: <u>3-13-19 17:50</u> <u>[Signature]</u> <u>3/14/19 0020</u>		Form No: 01-25 HC (rev. 30-Sept-2013)																																																																																																																																													



ANALYTICAL REPORT

Lab Number:	L1910376
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/22/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910376-01	RIMW6D_54-56	SOIL	SCHENECTADY, NY	03/14/19 15:10	03/15/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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

L1910376-01: The internal standard (IS) response(s) for fluorobenzene (32%), chlorobenzene-d5 (15%), and 1,4-dichlorobenzene-d4 (4%) and the surrogate recovery for 1,2-dichloroethane-d4 (137%), toluene-d8 (147%) and 4-bromofluorobenzene (193%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (48%) and 4-bromofluorobenzene (151%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high.

Total Metals

L1910376-01: 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.

Cyanide, Total

The WG1216692-2/-3 LCS/LCSD recoveries (44%/42%), associated with L1910376-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 03/22/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01
 Client ID: RIMW6D_54-56
 Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/22/19 04:38
 Analyst: JC
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS****Lab ID:** L1910376-01**Date Collected:** 03/14/19 15:10**Client ID:** RIMW6D_54-56**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	20		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	90	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Tentatively Identified Compounds

Total TIC Compounds	26.3	J	ug/kg	1
Unknown	7.70	J	ug/kg	1
Unknown	6.85	J	ug/kg	1
Unknown	7.12	J	ug/kg	1
Unknown	4.64	J	ug/kg	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01

Date Collected: 03/14/19 15:10

Client ID: RIMW6D_54-56

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	137	Q	70-130
Toluene-d8	147	Q	70-130
4-Bromofluorobenzene	193	Q	70-130
Dibromofluoromethane	116		70-130

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01 R

Date Collected: 03/14/19 15:10

Client ID: RIMW6D_54-56

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 03/22/19 08:18

Analyst: MV

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.89	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.89	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.89	0.11	1
Dibromochloromethane	ND		ug/kg	0.89	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	0.24	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.89	0.48	1
Ethylbenzene	ND		ug/kg	0.89	0.12	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.89	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS****Lab ID:** L1910376-01 R**Date Collected:** 03/14/19 15:10**Client ID:** RIMW6D_54-56**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.82	1
Acetone	ND		ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	ND		ug/kg	8.9	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	1.1	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
Methyl Acetate	ND		ug/kg	3.6	0.85	1
Cyclohexane	ND		ug/kg	8.9	0.48	1
1,4-Dioxane	ND		ug/kg	71	31.	1
Freon-113	ND		ug/kg	3.6	0.62	1
Methyl cyclohexane	ND		ug/kg	3.6	0.54	1

Tentatively Identified Compounds

Total TIC Compounds	8.13	J	ug/kg	1
Unknown	1.86	J	ug/kg	1
Unknown	3.43	J	ug/kg	1
Unknown	2.84	J	ug/kg	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01 R

Date Collected: 03/14/19 15:10

Client ID: RIMW6D_54-56

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	151	Q	70-130
Dibromofluoromethane	104		70-130

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1910376

Project Number: 16.6334

Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 07:52
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-10					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	0.96	J	ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 07:52
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-10					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	3.83	J	ug/kg
Unknown	3.83	J	ug/kg

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/22/19 07:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-10					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/19 19:44
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/19 19:44
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/21/19 19:44
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1218459-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

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: WG1218459-3 WG1218459-4								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	93		93		70-130	0		30
Chloroform	91		90		70-130	1		30
Carbon tetrachloride	90		91		70-130	1		30
1,2-Dichloropropane	92		92		70-130	0		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	91		92		70-130	1		30
Tetrachloroethene	83		83		70-130	0		30
Chlorobenzene	88		86		70-130	2		30
Trichlorofluoromethane	95		95		70-139	0		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	89		89		70-130	0		30
Bromodichloromethane	89		88		70-130	1		30
trans-1,3-Dichloropropene	92		93		70-130	1		30
cis-1,3-Dichloropropene	89		87		70-130	2		30
Bromoform	90		89		70-130	1		30
1,1,2,2-Tetrachloroethane	94		94		70-130	0		30
Benzene	88		86		70-130	2		30
Toluene	90		90		70-130	0		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	96		94		52-130	2		30
Bromomethane	114		113		57-147	1		30
Vinyl chloride	91		91		67-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

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: WG1218459-3 WG1218459-4								
Chloroethane	98		95		50-151	3		30
1,1-Dichloroethene	86		85		65-135	1		30
trans-1,2-Dichloroethene	87		86		70-130	1		30
Trichloroethene	86		84		70-130	2		30
1,2-Dichlorobenzene	90		89		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	90		88		70-130	2		30
Methyl tert butyl ether	89		89		66-130	0		30
p/m-Xylene	88		87		70-130	1		30
o-Xylene	87		88		70-130	1		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	88		86		30-146	2		30
Acetone	111		112		54-140	1		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	102		101		70-130	1		30
4-Methyl-2-pentanone	97		99		70-130	2		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	83		83		70-130	0		30
1,2-Dibromoethane	89		90		70-130	1		30
1,2-Dibromo-3-chloropropane	90		91		68-130	1		30
Isopropylbenzene	95		92		70-130	3		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

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: WG1218459-3 WG1218459-4								
1,2,4-Trichlorobenzene	91		90		70-130	1		30
Methyl Acetate	99		101		51-146	2		30
Cyclohexane	93		92		59-142	1		30
1,4-Dioxane	102		105		65-136	3		30
Freon-113	91		87		50-139	4		30
Methyl cyclohexane	86		85		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1218459-8 WG1218459-9								
Methylene chloride	74		76		70-130	3		30
1,1-Dichloroethane	90		90		70-130	0		30
Chloroform	89		90		70-130	1		30
Carbon tetrachloride	91		90		70-130	1		30
1,2-Dichloropropane	88		89		70-130	1		30
Dibromochloromethane	88		87		70-130	1		30
1,1,2-Trichloroethane	90		91		70-130	1		30
Tetrachloroethene	76		75		70-130	1		30
Chlorobenzene	82		81		70-130	1		30
Trichlorofluoromethane	95		91		70-139	4		30
1,2-Dichloroethane	100		100		70-130	0		30
1,1,1-Trichloroethane	88		86		70-130	2		30
Bromodichloromethane	89		90		70-130	1		30
trans-1,3-Dichloropropene	93		94		70-130	1		30
cis-1,3-Dichloropropene	86		86		70-130	0		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	94		95		70-130	1		30
Benzene	81		82		70-130	1		30
Toluene	83		83		70-130	0		30
Ethylbenzene	85		85		70-130	0		30
Chloromethane	98		96		52-130	2		30
Bromomethane	94		98		57-147	4		30
Vinyl chloride	82		82		67-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1218459-8 WG1218459-9								
Chloroethane	88		86		50-151	2		30
1,1-Dichloroethene	77		76		65-135	1		30
trans-1,2-Dichloroethene	78		78		70-130	0		30
Trichloroethene	80		79		70-130	1		30
1,2-Dichlorobenzene	86		87		70-130	1		30
1,3-Dichlorobenzene	86		85		70-130	1		30
1,4-Dichlorobenzene	85		86		70-130	1		30
Methyl tert butyl ether	90		91		66-130	1		30
p/m-Xylene	81		82		70-130	1		30
o-Xylene	82		82		70-130	0		30
cis-1,2-Dichloroethene	78		81		70-130	4		30
Styrene	83		83		70-130	0		30
Dichlorodifluoromethane	85		83		30-146	2		30
Acetone	122		120		54-140	2		30
Carbon disulfide	79		78		59-130	1		30
2-Butanone	120		118		70-130	2		30
4-Methyl-2-pentanone	104		102		70-130	2		30
2-Hexanone	118		114		70-130	3		30
Bromochloromethane	81		81		70-130	0		30
1,2-Dibromoethane	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	96		91		68-130	5		30
Isopropylbenzene	87		87		70-130	0		30
1,2,3-Trichlorobenzene	87		87		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1218459-8 WG1218459-9								
1,2,4-Trichlorobenzene	85		85		70-130	0		30
Methyl Acetate	112		112		51-146	0		30
Cyclohexane	91		91		59-142	0		30
1,4-Dioxane	100		99		65-136	1		30
Freon-113	82		83		50-139	1		30
Methyl cyclohexane	78		79		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		117		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	108		107		70-130
Dibromofluoromethane	101		101		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01
 Client ID: RIMW6D_54-56
 Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/20/19 03:32
 Analyst: ALS
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 04:41

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	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	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	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS****Lab ID:** L1910376-01**Date Collected:** 03/14/19 15:10**Client ID:** RIMW6D_54-56**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
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	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	37.	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	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	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	95.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	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

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

SAMPLE RESULTS

Lab ID: L1910376-01
Client ID: RIMW6D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	53		18-120

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/19/19 14:37
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216980-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
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	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/19/19 14:37
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216980-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/19/19 14:37
Analyst: ALS

Extraction Method: EPA 3546
Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1216980-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	74		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216980-2 WG1216980-3								
Acenaphthene	92		82		31-137	11		50
Hexachlorobenzene	104		90		40-140	14		50
Bis(2-chloroethyl)ether	81		67		40-140	19		50
2-Chloronaphthalene	93		78		40-140	18		50
3,3'-Dichlorobenzidine	90		82		40-140	9		50
2,4-Dinitrotoluene	82		73		40-132	12		50
2,6-Dinitrotoluene	90		76		40-140	17		50
Fluoranthene	94		81		40-140	15		50
4-Chlorophenyl phenyl ether	96		87		40-140	10		50
4-Bromophenyl phenyl ether	100		90		40-140	11		50
Bis(2-chloroisopropyl)ether	81		68		40-140	17		50
Bis(2-chloroethoxy)methane	89		74		40-117	18		50
Hexachlorobutadiene	82		68		40-140	19		50
Hexachlorocyclopentadiene	28	Q	15	Q	40-140	60	Q	50
Hexachloroethane	63		50		40-140	23		50
Isophorone	90		76		40-140	17		50
Naphthalene	84		69		40-140	20		50
Nitrobenzene	92		77		40-140	18		50
NDPA/DPA	102		91		36-157	11		50
n-Nitrosodi-n-propylamine	88		74		32-121	17		50
Bis(2-ethylhexyl)phthalate	114		104		40-140	9		50
Butyl benzyl phthalate	95		82		40-140	15		50
Di-n-butylphthalate	89		81		40-140	9		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216980-2 WG1216980-3								
Di-n-octylphthalate	112		99		40-140	12		50
Diethyl phthalate	94		87		40-140	8		50
Dimethyl phthalate	95		83		40-140	13		50
Benzo(a)anthracene	102		90		40-140	13		50
Benzo(a)pyrene	99		88		40-140	12		50
Benzo(b)fluoranthene	98		87		40-140	12		50
Benzo(k)fluoranthene	98		88		40-140	11		50
Chrysene	100		88		40-140	13		50
Acenaphthylene	98		83		40-140	17		50
Anthracene	90		79		40-140	13		50
Benzo(ghi)perylene	88		80		40-140	10		50
Fluorene	101		88		40-140	14		50
Phenanthrene	87		78		40-140	11		50
Dibenzo(a,h)anthracene	87		80		40-140	8		50
Indeno(1,2,3-cd)pyrene	90		82		40-140	9		50
Pyrene	93		80		35-142	15		50
Biphenyl	96		82		54-104	16		50
4-Chloroaniline	48		43		40-140	11		50
2-Nitroaniline	116		102		47-134	13		50
3-Nitroaniline	112		101		26-129	10		50
4-Nitroaniline	130	Q	115		41-125	12		50
Dibenzofuran	95		86		40-140	10		50
2-Methylnaphthalene	87		73		40-140	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216980-2 WG1216980-3								
1,2,4,5-Tetrachlorobenzene	100		82		40-117	20		50
Acetophenone	86		72		14-144	18		50
2,4,6-Trichlorophenol	102		88		30-130	15		50
p-Chloro-m-cresol	101		87		26-103	15		50
2-Chlorophenol	88		73		25-102	19		50
2,4-Dichlorophenol	99		84		30-130	16		50
2,4-Dimethylphenol	98		85		30-130	14		50
2-Nitrophenol	84		67		30-130	23		50
4-Nitrophenol	119	Q	101		11-114	16		50
2,4-Dinitrophenol	20		14		4-130	35		50
4,6-Dinitro-o-cresol	26		16		10-130	48		50
Pentachlorophenol	105		91		17-109	14		50
Phenol	88		71		26-90	21		50
2-Methylphenol	92		76		30-130	19		50
3-Methylphenol/4-Methylphenol	92		80		30-130	14		50
2,4,5-Trichlorophenol	112		94		30-130	17		50
Carbazole	92		80		54-128	14		50
Atrazine	112		99		40-140	12		50
Benzaldehyde	76		63		40-140	19		50
Caprolactam	111		98		15-130	12		50
2,3,4,6-Tetrachlorophenol	104		92		40-140	12		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1910376

Project Number: 16.6334

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1216980-2 WG1216980-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		68		25-120
Phenol-d6	82		68		10-120
Nitrobenzene-d5	90		76		23-120
2-Fluorobiphenyl	87		74		30-120
2,4,6-Tribromophenol	107		93		10-136
4-Terphenyl-d14	88		76		18-120

PCBS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

SAMPLE RESULTS

Lab ID: L1910376-01
Client ID: RIMW6D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/21/19 13:35
Analyst: WR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 10:39
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.0	3.55	1	A
Aroclor 1221	ND		ug/kg	40.0	4.01	1	A
Aroclor 1232	ND		ug/kg	40.0	8.48	1	A
Aroclor 1242	ND		ug/kg	40.0	5.39	1	A
Aroclor 1248	ND		ug/kg	40.0	6.00	1	A
Aroclor 1254	ND		ug/kg	40.0	4.37	1	A
Aroclor 1260	ND		ug/kg	40.0	7.39	1	A
Aroclor 1262	ND		ug/kg	40.0	5.08	1	A
Aroclor 1268	ND		ug/kg	40.0	4.14	1	A
PCBs, Total	ND		ug/kg	40.0	3.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/20/19 01:33
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/19/19 03:44
Cleanup Method: EPA 3665A
Cleanup Date: 03/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1216974-1						
Aroclor 1016	ND		ug/kg	33.2	2.94	A
Aroclor 1221	ND		ug/kg	33.2	3.32	A
Aroclor 1232	ND		ug/kg	33.2	7.03	A
Aroclor 1242	ND		ug/kg	33.2	4.47	A
Aroclor 1248	ND		ug/kg	33.2	4.97	A
Aroclor 1254	ND		ug/kg	33.2	3.63	A
Aroclor 1260	ND		ug/kg	33.2	6.13	A
Aroclor 1262	ND		ug/kg	33.2	4.21	A
Aroclor 1268	ND		ug/kg	33.2	3.44	A
PCBs, Total	ND		ug/kg	33.2	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	93		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216974-2 WG1216974-3									
Aroclor 1016	111		102		40-140	8		50	A
Aroclor 1260	90		87		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		94		30-150	A
Decachlorobiphenyl	88		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		103		30-150	B
Decachlorobiphenyl	104		102		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01
 Client ID: RIMW6D_54-56
 Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/19/19 17:48
 Analyst: KEG
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 04:46
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/19/19

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	0.762	0.341	1	A
Alpha-BHC	ND		ug/kg	0.762	0.216	1	A
Beta-BHC	ND		ug/kg	1.83	0.694	1	A
Heptachlor	ND		ug/kg	0.915	0.410	1	A
Aldrin	ND		ug/kg	1.83	0.644	1	A
Heptachlor epoxide	ND		ug/kg	3.43	1.03	1	A
Endrin	ND		ug/kg	0.762	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.800	1	A
Endrin ketone	ND		ug/kg	1.83	0.471	1	A
Dieldrin	ND		ug/kg	1.14	0.572	1	A
4,4'-DDE	ND		ug/kg	1.83	0.423	1	A
4,4'-DDD	ND		ug/kg	1.83	0.652	1	A
4,4'-DDT	ND		ug/kg	3.43	1.47	1	A
Endosulfan I	ND		ug/kg	1.83	0.432	1	A
Endosulfan II	ND		ug/kg	1.83	0.611	1	A
Endosulfan sulfate	ND		ug/kg	0.762	0.363	1	A
Methoxychlor	ND		ug/kg	3.43	1.07	1	A
Toxaphene	ND		ug/kg	34.3	9.60	1	A
cis-Chlordane	ND		ug/kg	2.29	0.637	1	A
trans-Chlordane	ND		ug/kg	2.29	0.604	1	A
Chlordane	ND		ug/kg	14.9	6.06	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS****Lab ID:** L1910376-01**Date Collected:** 03/14/19 15:10**Client ID:** RIMW6D_54-56**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	71		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/19/19 15:55
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 03/18/19 18:56
Cleanup Method: EPA 3620B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216892-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.754	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.848	A
Endrin	ND		ug/kg	0.628	0.258	A
Endrin aldehyde	ND		ug/kg	1.88	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.943	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.498	A
Chlordane	ND		ug/kg	12.2	5.00	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/19/19 15:55
 Analyst: BM

Extraction Method: EPA 3546
 Extraction Date: 03/18/19 18:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1216892-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216892-2 WG1216892-3									
Delta-BHC	86		96		30-150	11		30	A
Lindane	82		92		30-150	11		30	A
Alpha-BHC	84		93		30-150	10		30	A
Beta-BHC	99		122		30-150	21		30	A
Heptachlor	90		99		30-150	10		30	A
Aldrin	80		88		30-150	10		30	A
Heptachlor epoxide	96		106		30-150	10		30	A
Endrin	95		104		30-150	9		30	A
Endrin aldehyde	67		74		30-150	10		30	A
Endrin ketone	86		96		30-150	11		30	A
Dieldrin	89		98		30-150	10		30	A
4,4'-DDE	79		87		30-150	10		30	A
4,4'-DDD	85		94		30-150	10		30	A
4,4'-DDT	93		100		30-150	7		30	A
Endosulfan I	80		89		30-150	11		30	A
Endosulfan II	86		96		30-150	11		30	A
Endosulfan sulfate	75		83		30-150	10		30	A
Methoxychlor	87		94		30-150	8		30	A
cis-Chlordane	71		79		30-150	11		30	A
trans-Chlordane	77		83		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1216892-2 WG1216892-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		84		30-150	B
Decachlorobiphenyl	105		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		84		30-150	A
Decachlorobiphenyl	104		108		30-150	A

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**SAMPLE RESULTS**

Lab ID: L1910376-01

Date Collected: 03/14/19 15:10

Client ID: RIMW6D_54-56

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2680		mg/kg	9.38	2.53	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.69	0.356	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Arsenic, Total	0.938		mg/kg	0.938	0.195	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Barium, Total	11.5		mg/kg	0.938	0.163	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Beryllium, Total	0.112	J	mg/kg	0.469	0.031	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.938	0.092	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Calcium, Total	22700		mg/kg	9.38	3.28	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Chromium, Total	6.32		mg/kg	0.938	0.090	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Cobalt, Total	3.70		mg/kg	1.88	0.156	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Copper, Total	7.36		mg/kg	0.938	0.242	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Iron, Total	10600		mg/kg	4.69	0.847	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Lead, Total	3.74	J	mg/kg	4.69	0.251	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Magnesium, Total	4900		mg/kg	9.38	1.44	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Manganese, Total	192		mg/kg	0.938	0.149	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.076	0.016	1	03/19/19 03:20	03/19/19 18:43	EPA 7471B	1,7471B	GD
Nickel, Total	6.15		mg/kg	2.34	0.227	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Potassium, Total	260		mg/kg	234	13.5	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.88	0.242	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.938	0.265	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Sodium, Total	77.6	J	mg/kg	188	2.95	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.88	0.295	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Vanadium, Total	13.6		mg/kg	0.938	0.190	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC
Zinc, Total	22.2		mg/kg	4.69	0.275	2	03/19/19 20:15	03/21/19 15:26	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1910376

Project Number: 16.6334

Report Date: 03/22/19

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 Batch: WG1216955-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/19/19 03:20	03/19/19 17:49	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1217319-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Iron, Total	1.72	J	mg/kg	2.00	0.361	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Manganese, Total	0.100	J	mg/kg	0.400	0.064	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Sodium, Total	2.96	J	mg/kg	80.0	1.26	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1910376

Project Number: 16.6334

Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1216955-2 SRM Lot Number: D101-540								
Mercury, Total	81		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217319-2 SRM Lot Number: D101-540					
Aluminum, Total	64	-	50-151	-	
Antimony, Total	135	-	3-196	-	
Arsenic, Total	108	-	83-117	-	
Barium, Total	92	-	83-118	-	
Beryllium, Total	99	-	83-117	-	
Cadmium, Total	104	-	83-117	-	
Calcium, Total	88	-	81-119	-	
Chromium, Total	98	-	81-118	-	
Cobalt, Total	107	-	84-116	-	
Copper, Total	97	-	83-116	-	
Iron, Total	84	-	62-138	-	
Lead, Total	103	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	92	-	82-118	-	
Nickel, Total	106	-	82-117	-	
Potassium, Total	79	-	71-130	-	
Selenium, Total	109	-	79-121	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	92	-	72-127	-	
Thallium, Total	108	-	81-119	-	
Vanadium, Total	95	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217319-2 SRM Lot Number: D101-540					
Zinc, Total	106	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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 QC Batch ID: WG1216955-3 WG1216955-4 QC Sample: L1909813-02 Client ID: MS Sample												
Mercury, Total	3.13	0.189	2.83	0	Q	3.44	164	Q	80-120	19		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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 QC Batch ID: WG1217319-3 WG1217319-4 QC Sample: L1910554-01 Client ID: MS Sample									
Aluminum, Total	3070	168	3510	261	Q	3480	247	Q	75-125 1 20
Antimony, Total	ND	42.1	36.6	87		35.6	86		75-125 3 20
Arsenic, Total	1.39	10.1	11.3	98		11.4	101		75-125 1 20
Barium, Total	9.82	168	168	94		165	94		75-125 2 20
Beryllium, Total	0.214J	4.21	4.12	98		4.15	100		75-125 1 20
Cadmium, Total	ND	4.29	3.79	88		3.79	90		75-125 0 20
Calcium, Total	899	842	1760	102		1720	99		75-125 2 20
Chromium, Total	3.97	16.8	19.7	93		19.4	93		75-125 2 20
Cobalt, Total	3.29	42.1	41.6	91		41.5	92		75-125 0 20
Copper, Total	9.65	21	28.0	87		27.8	88		75-125 1 20
Iron, Total	8960	84.2	9410	535	Q	9060	121		75-125 4 20
Lead, Total	3.44J	42.9	44.3	103		43.8	104		75-125 1 20
Magnesium, Total	1220	842	2050	99		2050	100		75-125 0 20
Manganese, Total	241	42.1	316	178	Q	290	118		75-125 9 20
Nickel, Total	7.22	42.1	45.5	91		45.4	92		75-125 0 20
Potassium, Total	251	842	1070	97		1060	98		75-125 1 20
Selenium, Total	ND	10.1	10.2	101		10.3	104		75-125 1 20
Silver, Total	ND	25.2	23.6	93		23.7	95		75-125 0 20
Sodium, Total	28.6J	842	860	102		852	103		75-125 1 20
Thallium, Total	ND	10.1	9.48	94		9.37	94		75-125 1 20
Vanadium, Total	8.34	42.1	47.5	93		47.4	94		75-125 0 20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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 QC Batch ID: WG1217319-3 WG1217319-4 QC Sample: L1910554-01 Client ID: MS Sample									
Zinc, Total	22.9	42.1	64.7	99	62.5	96	75-125	3	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

SAMPLE RESULTS

Lab ID: L1910376-01
Client ID: RIMW6D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/14/19 15:10
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	03/16/19 09:16	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/18/19 13:10	03/20/19 13:36	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.960	0.192	1	03/18/19 18:04	03/19/19 10:17	1,7196A	NH



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1910376

Project Number: 16.6334

Report Date: 03/22/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1216692-1										
Cyanide, Total	ND		mg/kg	0.85	0.18	1	03/18/19 13:10	03/20/19 13:16	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1216914-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/18/19 18:04	03/19/19 10:17	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1910376

Report Date: 03/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1216692-2 WG1216692-3								
Cyanide, Total	44	Q	42	Q	80-120	15		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1216914-2								
Chromium, Hexavalent	93		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216692-4 WG1216692-5 QC Sample: L1910118-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.4	94		9.8	96		75-125	4		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216914-4 QC Sample: L1910376-01 Client ID: RIMW6D_54-56												
Chromium, Hexavalent	ND	1130	1080	96		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216265-1 QC Sample: L1910404-01 Client ID: DUP Sample						
Solids, Total	88.7	90.9	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216914-6 QC Sample: L1910376-01 Client ID: RIMW6D_54-56						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1910376**Project Number:** 16.6334**Report Date:** 03/22/19**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(*)
L1910376-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1910376-01B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 04:03	NYTCL-8260HLW-R2(14)
L1910376-01C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 04:03	NYTCL-8260HLW-R2(14)
L1910376-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1910376-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1910376-01F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910376-01G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1910376
Report Date: 03/22/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u> </u>		Date Rec'd in Lab <u>3/16/19</u>		ALPHA Job # <u>L1910376</u>																																																																																																																																																																				
		Project Information Project Name: <u>Hamilton Hill II - TAI Site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☐ Same as Client Info PO #																																																																																																																																																																		
		Client Information Client: <u>CT Male Associates</u> Address: <u>50 Century Hill Drive</u> <u>Latham, NY 12110</u> Phone: <u>518-756-7400</u> Fax: <u>A.Smith@ctmale.com</u> Email: <u>K.moline@ctmale.com</u>				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																		
Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:				ANALYSIS				Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)																																																																																																																																																																				
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:										Total Bottles																																																																																																																																																																		
Please specify Metals or TAL.																																																																																																																																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="7">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>TLL TOC</th> <th>TLL SVOC</th> <th>TLL PCB</th> <th>TLL PEST</th> <th>TAL Metals</th> <th>Excluding Mercury, Hexachlorine, Cyanide</th> </tr> </thead> <tbody> <tr> <td>10376-01</td> <td>RIMW6D-54-56 RPL</td> <td>3/14/19</td> <td>1510</td> <td>Soil</td> <td>DA</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>											ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments	Date	Time	TLL TOC	TLL SVOC	TLL PCB	TLL PEST	TAL Metals	Excluding Mercury, Hexachlorine, Cyanide	10376-01	RIMW6D-54-56 RPL	3/14/19	1510	Soil	DA	X	X	X	X	X	X																																																																																																																																
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS							Sample Specific Comments																																																																																																																																																															
		Date	Time			TLL TOC	TLL SVOC	TLL PCB	TLL PEST		TAL Metals	Excluding Mercury, Hexachlorine, Cyanide																																																																																																																																																																
10376-01	RIMW6D-54-56 RPL	3/14/19	1510	Soil	DA	X	X	X	X		X	X																																																																																																																																																																
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type VA A A A A A		Preservative F A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																																		
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3/15/19 13:47</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-15-19 13:47</u>		<u>3/16/19 20:55</u>																																																																																																																																																																				



ANALYTICAL REPORT

Lab Number:	L1910377
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TAI SITE
Project Number:	16.6334
Report Date:	03/19/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910377-01	RISB8_2-4	SOIL	SCHENECTADY, NY	03/15/19 10:15	03/15/19
L1910377-02	RISB11_2-4	SOIL	SCHENECTADY, NY	03/15/19 12:10	03/15/19
L1910377-03	RISB8_4-6	SOIL	SCHENECTADY, NY	03/15/19 10:25	03/15/19
L1910377-04	RISB8_6-8	SOIL	SCHENECTADY, NY	03/15/19 10:30	03/15/19
L1910377-05	RISB11_10-12	SOIL	SCHENECTADY, NY	03/15/19 12:45	03/15/19

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

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

L1910377-02: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

Total Metals

L1910377-01 and -02: 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 WG1216897-3/-4 MS/MSD recoveries for aluminum (130%/504%), calcium (MS at 0%) and iron (1330%/175%), performed on L1910377-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1216897-3/-4 MS/MSD recoveries, performed on L1910377-01, are outside the acceptance criteria for lead (MS at 160%), magnesium (67%/69%) and sodium (MSD at 135%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1216521-2/-3 LCS/LCSD recoveries (72%/75%), associated with L1910377-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1216555-8/-9 MS/MSD RPD (38%), performed on L1910377-01, is above the acceptance criteria.

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:

 Cristin Walker

Title: Technical Director/Representative

Date: 03/19/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-01
 Client ID: RISB8_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:15
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/17/19 16:04
 Analyst: MV
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1910377-01**Date Collected:** 03/15/19 10:15**Client ID:** RISB8_2-4**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	6.9	J	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	87	38.	1
Freon-113	ND		ug/kg	4.4	0.75	1
Methyl cyclohexane	ND		ug/kg	4.4	0.66	1

Tentatively Identified Compounds

Total TIC Compounds	5.98	J	ug/kg	1
Unknown	5.98	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	102		70-130

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-02
 Client ID: RISB11_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/17/19 21:42
 Analyst: MV
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	61	8.8	1
Chloroform	ND		ug/kg	91	8.5	1
Carbon tetrachloride	ND		ug/kg	61	14.	1
1,2-Dichloropropane	ND		ug/kg	61	7.6	1
Dibromochloromethane	ND		ug/kg	61	8.5	1
1,1,2-Trichloroethane	ND		ug/kg	61	16.	1
Tetrachloroethene	12	J	ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.7	1
Trichlorofluoromethane	ND		ug/kg	240	42.	1
1,2-Dichloroethane	ND		ug/kg	61	16.	1
1,1,1-Trichloroethane	ND		ug/kg	30	10.	1
Bromodichloromethane	ND		ug/kg	30	6.6	1
trans-1,3-Dichloropropene	ND		ug/kg	61	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.6	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	10.	1
Benzene	ND		ug/kg	30	10.	1
Toluene	ND		ug/kg	61	33.	1
Ethylbenzene	ND		ug/kg	61	8.6	1
Chloromethane	ND		ug/kg	240	56.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	ND		ug/kg	61	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	61	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	91	8.3	1
Trichloroethene	ND		ug/kg	30	8.3	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.7	1

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1910377-02**Date Collected:** 03/15/19 12:10**Client ID:** RISB11_2-4**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	ND		ug/kg	120	34.	1
o-Xylene	ND		ug/kg	61	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	61	11.	1
Styrene	ND		ug/kg	61	12.	1
Dichlorodifluoromethane	ND		ug/kg	610	56.	1
Acetone	ND		ug/kg	610	290	1
Carbon disulfide	ND		ug/kg	610	280	1
2-Butanone	ND		ug/kg	610	130	1
4-Methyl-2-pentanone	ND		ug/kg	610	78.	1
2-Hexanone	ND		ug/kg	610	72.	1
Bromochloromethane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	61	17.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	60.	1
Isopropylbenzene	ND		ug/kg	61	6.6	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
Methyl Acetate	440		ug/kg	240	58.	1
Cyclohexane	ND		ug/kg	610	33.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
Freon-113	ND		ug/kg	240	42.	1
Methyl cyclohexane	ND		ug/kg	240	36.	1

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-02
Client ID: RISB11_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	15700	J	ug/kg	1
Dodecane (C12)	1230	NJ	ug/kg	1
Unknown Naphthalene	1510	J	ug/kg	1
Unknown	2400	J	ug/kg	1
Unknown	1260	J	ug/kg	1
Unknown	996	J	ug/kg	1
Unknown	1460	J	ug/kg	1
Unknown Cyclohexane	1780	J	ug/kg	1
Unknown	3080	J	ug/kg	1
Unknown	1060	J	ug/kg	1
1,1'-Bicyclohexyl	964	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/17/19 14:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216588-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/17/19 14:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216588-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	10	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/17/19 14:20

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1216588-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/17/19 14:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1216589-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/17/19 14:20
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1216589-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.20	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/17/19 14:20

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1216589-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216588-3 WG1216588-4								
Methylene chloride	89		84		70-130	6		30
1,1-Dichloroethane	104		99		70-130	5		30
Chloroform	97		94		70-130	3		30
Carbon tetrachloride	94		90		70-130	4		30
1,2-Dichloropropane	105		100		70-130	5		30
Dibromochloromethane	95		93		70-130	2		30
1,1,2-Trichloroethane	105		101		70-130	4		30
Tetrachloroethene	91		90		70-130	1		30
Chlorobenzene	95		92		70-130	3		30
Trichlorofluoromethane	71		68	Q	70-139	4		30
1,2-Dichloroethane	111		106		70-130	5		30
1,1,1-Trichloroethane	97		93		70-130	4		30
Bromodichloromethane	98		94		70-130	4		30
trans-1,3-Dichloropropene	107		102		70-130	5		30
cis-1,3-Dichloropropene	99		95		70-130	4		30
Bromoform	96		91		70-130	5		30
1,1,2,2-Tetrachloroethane	102		97		70-130	5		30
Benzene	96		92		70-130	4		30
Toluene	98		97		70-130	1		30
Ethylbenzene	100		97		70-130	3		30
Chloromethane	105		100		52-130	5		30
Bromomethane	76		71		57-147	7		30
Vinyl chloride	84		80		67-130	5		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216588-3 WG1216588-4								
Chloroethane	87		85		50-151	2		30
1,1-Dichloroethene	88		84		65-135	5		30
trans-1,2-Dichloroethene	88		84		70-130	5		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	96		92		70-130	4		30
1,3-Dichlorobenzene	99		95		70-130	4		30
1,4-Dichlorobenzene	97		93		70-130	4		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	97		93		70-130	4		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	91		87		70-130	4		30
Styrene	95		93		70-130	2		30
Dichlorodifluoromethane	90		86		30-146	5		30
Acetone	125		114		54-140	9		30
Carbon disulfide	100		95		59-130	5		30
2-Butanone	138	Q	118		70-130	16		30
4-Methyl-2-pentanone	104		99		70-130	5		30
2-Hexanone	108		103		70-130	5		30
Bromochloromethane	93		89		70-130	4		30
1,2-Dibromoethane	97		94		70-130	3		30
1,2-Dibromo-3-chloropropane	94		88		68-130	7		30
Isopropylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	93		88		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1216588-3 WG1216588-4								
1,2,4-Trichlorobenzene	91		87		70-130	4		30
Methyl Acetate	124		120		51-146	3		30
Cyclohexane	109		104		59-142	5		30
1,4-Dioxane	103		98		65-136	5		30
Freon-113	92		89		50-139	3		30
Methyl cyclohexane	93		89		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1216589-3 WG1216589-4								
Methylene chloride	89		84		70-130	6		30
1,1-Dichloroethane	104		99		70-130	5		30
Chloroform	97		94		70-130	3		30
Carbon tetrachloride	94		90		70-130	4		30
1,2-Dichloropropane	105		100		70-130	5		30
Dibromochloromethane	95		93		70-130	2		30
1,1,2-Trichloroethane	105		101		70-130	4		30
Tetrachloroethene	91		90		70-130	1		30
Chlorobenzene	95		92		70-130	3		30
Trichlorofluoromethane	71		68	Q	70-139	4		30
1,2-Dichloroethane	111		106		70-130	5		30
1,1,1-Trichloroethane	97		93		70-130	4		30
Bromodichloromethane	98		94		70-130	4		30
trans-1,3-Dichloropropene	107		102		70-130	5		30
cis-1,3-Dichloropropene	99		95		70-130	4		30
Bromoform	96		91		70-130	5		30
1,1,2,2-Tetrachloroethane	102		97		70-130	5		30
Benzene	96		92		70-130	4		30
Toluene	98		97		70-130	1		30
Ethylbenzene	100		97		70-130	3		30
Chloromethane	105		100		52-130	5		30
Bromomethane	76		71		57-147	7		30
Vinyl chloride	84		80		67-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1216589-3 WG1216589-4								
Chloroethane	87		85		50-151	2		30
1,1-Dichloroethene	88		84		65-135	5		30
trans-1,2-Dichloroethene	88		84		70-130	5		30
Trichloroethene	95		91		70-130	4		30
1,2-Dichlorobenzene	96		92		70-130	4		30
1,3-Dichlorobenzene	99		95		70-130	4		30
1,4-Dichlorobenzene	97		93		70-130	4		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	97		93		70-130	4		30
o-Xylene	95		92		70-130	3		30
cis-1,2-Dichloroethene	91		87		70-130	4		30
Styrene	95		93		70-130	2		30
Dichlorodifluoromethane	90		86		30-146	5		30
Acetone	125		114		54-140	9		30
Carbon disulfide	100		95		59-130	5		30
2-Butanone	138	Q	118		70-130	16		30
4-Methyl-2-pentanone	104		99		70-130	5		30
2-Hexanone	108		103		70-130	5		30
Bromochloromethane	93		89		70-130	4		30
1,2-Dibromoethane	97		94		70-130	3		30
1,2-Dibromo-3-chloropropane	94		88		68-130	7		30
Isopropylbenzene	98		94		70-130	4		30
1,2,3-Trichlorobenzene	93		88		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1216589-3 WG1216589-4								
1,2,4-Trichlorobenzene	91		87		70-130	4		30
Methyl Acetate	124		120		51-146	3		30
Cyclohexane	109		104		59-142	5		30
1,4-Dioxane	103		98		65-136	5		30
Freon-113	92		89		50-139	3		30
Methyl cyclohexane	93		89		70-130	4		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	97		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216589-6 WG1216589-7 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Methylene chloride	ND	119	110	93		99	93		70-130	11		30
1,1-Dichloroethane	ND	119	130	113		120	114		70-130	10		30
Chloroform	ND	119	120	102		110	105		70-130	8		30
Carbon tetrachloride	ND	119	120	104		110	102		70-130	13		30
1,2-Dichloropropane	ND	119	130	113		120	111		70-130	13		30
Dibromochloromethane	ND	119	120	98		100	95		70-130	15		30
1,1,2-Trichloroethane	ND	119	130	106		110	103		70-130	14		30
Tetrachloroethene	ND	119	110	90		81	76		70-130	27		30
Chlorobenzene	ND	119	100	87		80	76		70-130	25		30
Trichlorofluoromethane	ND	119	90	76		82	77		70-139	10		30
1,2-Dichloroethane	ND	119	130	109		120	109		70-130	11		30
1,1,1-Trichloroethane	ND	119	130	107		110	106		70-130	12		30
Bromodichloromethane	ND	119	120	101		110	100		70-130	12		30
trans-1,3-Dichloropropene	ND	119	120	102		100	96		70-130	17		30
cis-1,3-Dichloropropene	ND	119	120	99		100	95		70-130	16		30
Bromoform	ND	119	120	102		100	97		70-130	16		30
1,1,2,2-Tetrachloroethane	ND	119	120	103		110	99		70-130	15		30
Benzene	ND	119	120	102		110	100		70-130	13		30
Toluene	ND	119	120	102		98	92		70-130	21		30
Ethylbenzene	ND	119	120	97		85	80		70-130	30		30
Chloromethane	ND	119	140	117		130	118		52-130	10		30
Bromomethane	ND	119	89	75		84	79		57-147	6		30
Vinyl chloride	ND	119	110	96		100	98		67-130	9		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216589-6 WG1216589-7 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Chloroethane	ND	119	110	93		100	94		50-151	10		30
1,1-Dichloroethene	ND	119	120	101		110	102		65-135	11		30
trans-1,2-Dichloroethene	ND	119	110	93		96	90		70-130	14		30
Trichloroethene	ND	119	110	96		96	90		70-130	17		30
1,2-Dichlorobenzene	ND	119	93	78		67	63	Q	70-130	33	Q	30
1,3-Dichlorobenzene	ND	119	92	77		62	59	Q	70-130	38	Q	30
1,4-Dichlorobenzene	ND	119	87	74		58	55	Q	70-130	40	Q	30
Methyl tert butyl ether	ND	119	130	105		110	104		66-130	12		30
p/m-Xylene	ND	238	220	91		160	74		70-130	32	Q	30
o-Xylene	ND	238	220	92		160	77		70-130	29		30
cis-1,2-Dichloroethene	ND	119	110	95		99	93		70-130	13		30
Styrene	ND	238	200	85		150	71		70-130	29		30
Dichlorodifluoromethane	ND	119	120	104		110	105		30-146	9		30
Acetone	6.9J	119	140	115		120	115		54-140	12		30
Carbon disulfide	ND	119	120	104		110	100		59-130	15		30
2-Butanone	ND	119	150	125		130	123		70-130	13		30
4-Methyl-2-pentanone	ND	119	140	119		120	116		70-130	14		30
2-Hexanone	ND	119	140	120		130	118		70-130	13		30
Bromochloromethane	ND	119	120	97		100	96		70-130	12		30
1,2-Dibromoethane	ND	119	110	96		98	92		70-130	15		30
1,2-Dibromo-3-chloropropane	ND	119	110	95		99	93		68-130	14		30
Isopropylbenzene	ND	119	120	101		83	78		70-130	36	Q	30
1,2,3-Trichlorobenzene	ND	119	66	56	Q	50	46	Q	70-130	29		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1216589-6 WG1216589-7 QC Sample: L1910377-01 Client ID: RISB8_2-4												
1,2,4-Trichlorobenzene	ND	119	66	55	Q	46	43	Q	70-130	35	Q	30
Methyl Acetate	ND	119	220	184	Q	190	179	Q	51-146	14		30
Cyclohexane	ND	119	150	124		130	120		59-142	14		30
1,4-Dioxane	ND	5940	7600	128		6800	128		65-136	12		30
Freon-113	ND	119	120	104		110	104		50-139	10		30
Methyl cyclohexane	ND	119	120	97		96	90		70-130	18		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		110		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	97		97		70-130
Toluene-d8	102		101		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-01
 Client ID: RISB8_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:15
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/17/19 17:46
 Analyst: EK
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	440		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	3600		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	710		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	74	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	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	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1900		ug/kg	110	21.	1
Benzo(a)pyrene	1500		ug/kg	150	46.	1

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-01

Date Collected: 03/15/19 10:15

Client ID: RISB8_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1800		ug/kg	110	32.	1
Benzo(k)fluoranthene	560		ug/kg	110	30.	1
Chrysene	1800		ug/kg	110	20.	1
Acenaphthylene	580		ug/kg	150	29.	1
Anthracene	1100		ug/kg	110	37.	1
Benzo(ghi)perylene	910		ug/kg	150	22.	1
Fluorene	710		ug/kg	190	18.	1
Phenanthrene	4800		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	220		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	810		ug/kg	150	26.	1
Pyrene	3200		ug/kg	110	19.	1
Biphenyl	88	J	ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	450		ug/kg	190	18.	1
2-Methylnaphthalene	340		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	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	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	41	J	ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Carbazole	450		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1910377-01**Date Collected:** 03/15/19 10:15**Client ID:** RISB8_2-4**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Tentatively Identified Compounds

Total TIC Compounds	9040	J	ug/kg			1
Unknown PAH	304	J	ug/kg			1
Unknown PAH	925	J	ug/kg			1
Unknown Ketone	324	J	ug/kg			1
Unknown PAH	316	J	ug/kg			1
Unknown PAH	919	J	ug/kg			1
Unknown PAH	1230	J	ug/kg			1
Unknown Thiophene	289	J	ug/kg			1
Unknown PAH	318	J	ug/kg			1
Unknown PAH	667	J	ug/kg			1
Unknown PAH	285	J	ug/kg			1
Unknown PAH	381	J	ug/kg			1
Unknown	256	J	ug/kg			1
Unknown	1490	J	ug/kg			1
Unknown	484	J	ug/kg			1
Unknown	854	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	57		18-120

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-02
 Client ID: RISB11_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/17/19 23:03
 Analyst: EK
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	250		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	1500		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	62	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	390		ug/kg	190	66.	1
Butyl benzyl phthalate	120	J	ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	870		ug/kg	110	22.	1
Benzo(a)pyrene	660		ug/kg	150	47.	1

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-02

Date Collected: 03/15/19 12:10

Client ID: RISB11_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	880		ug/kg	110	32.	1
Benzo(k)fluoranthene	290		ug/kg	110	31.	1
Chrysene	720		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	310		ug/kg	110	37.	1
Benzo(ghi)perylene	340		ug/kg	150	22.	1
Fluorene	160	J	ug/kg	190	18.	1
Phenanthrene	1200		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	87	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	370		ug/kg	150	27.	1
Pyrene	1300		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	120	J	ug/kg	190	18.	1
2-Methylnaphthalene	150	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	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	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Carbazole	160	J	ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	67.	1
Benzaldehyde	ND		ug/kg	250	52.	1

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1910377-02**Date Collected:** 03/15/19 12:10**Client ID:** RISB11_2-4**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1

Tentatively Identified Compounds

Total TIC Compounds	5370	J	ug/kg			1
Unknown PAH	191	J	ug/kg			1
Unknown Alkane	491	J	ug/kg			1
Unknown Alkane	972	J	ug/kg			1
Unknown PAH	237	J	ug/kg			1
Unknown PAH	354	J	ug/kg			1
Unknown Cyclohexane	402	J	ug/kg			1
Unknown	335	J	ug/kg			1
Unknown Alkane	553	J	ug/kg			1
Unknown Alkane	298	J	ug/kg			1
Unknown Alkane	452	J	ug/kg			1
Unknown	452	J	ug/kg			1
Unknown Alkane	633	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	61		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	47		18-120

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/16/19 14:32
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1216229-1					
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	32.
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	460	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	55.
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: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/16/19 14:32
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1216229-1					
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	67.
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	66.
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: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/16/19 14:32
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1216229-1					
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	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	210	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	62		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1216229-2 WG1216229-3								
Acenaphthene	83		75		31-137	10		50
Hexachlorobenzene	82		79		40-140	4		50
Bis(2-chloroethyl)ether	78		71		40-140	9		50
2-Chloronaphthalene	73		74		40-140	1		50
3,3'-Dichlorobenzidine	56		57		40-140	2		50
2,4-Dinitrotoluene	95		88		40-132	8		50
2,6-Dinitrotoluene	88		87		40-140	1		50
Fluoranthene	77		79		40-140	3		50
4-Chlorophenyl phenyl ether	87		76		40-140	13		50
4-Bromophenyl phenyl ether	82		80		40-140	2		50
Bis(2-chloroisopropyl)ether	68		59		40-140	14		50
Bis(2-chloroethoxy)methane	76		61		40-117	22		50
Hexachlorobutadiene	73		68		40-140	7		50
Hexachlorocyclopentadiene	76		74		40-140	3		50
Hexachloroethane	68		59		40-140	14		50
Isophorone	77		64		40-140	18		50
Naphthalene	71		67		40-140	6		50
Nitrobenzene	72		63		40-140	13		50
NDPA/DPA	92		82		36-157	11		50
n-Nitrosodi-n-propylamine	88		71		32-121	21		50
Bis(2-ethylhexyl)phthalate	92		94		40-140	2		50
Butyl benzyl phthalate	84		91		40-140	8		50
Di-n-butylphthalate	84		83		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1216229-2 WG1216229-3								
Di-n-octylphthalate	92		87		40-140	6		50
Diethyl phthalate	98		86		40-140	13		50
Dimethyl phthalate	81		82		40-140	1		50
Benzo(a)anthracene	85		88		40-140	3		50
Benzo(a)pyrene	87		70		40-140	22		50
Benzo(b)fluoranthene	86		73		40-140	16		50
Benzo(k)fluoranthene	82		67		40-140	20		50
Chrysene	80		81		40-140	1		50
Acenaphthylene	79		79		40-140	0		50
Anthracene	75		76		40-140	1		50
Benzo(ghi)perylene	76		79		40-140	4		50
Fluorene	94		83		40-140	12		50
Phenanthrene	72		74		40-140	3		50
Dibenzo(a,h)anthracene	78		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	92		94		40-140	2		50
Pyrene	76		76		35-142	0		50
Biphenyl	76		77		54-104	1		50
4-Chloroaniline	40		37	Q	40-140	8		50
2-Nitroaniline	82		85		47-134	4		50
3-Nitroaniline	61		60		26-129	2		50
4-Nitroaniline	104		85		41-125	20		50
Dibenzofuran	79		76		40-140	4		50
2-Methylnaphthalene	75		71		40-140	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1216229-2 WG1216229-3								
1,2,4,5-Tetrachlorobenzene	77		75		40-117	3		50
Acetophenone	88		69		14-144	24		50
2,4,6-Trichlorophenol	86		81		30-130	6		50
p-Chloro-m-cresol	93		80		26-103	15		50
2-Chlorophenol	83		74		25-102	11		50
2,4-Dichlorophenol	80		67		30-130	18		50
2,4-Dimethylphenol	79		68		30-130	15		50
2-Nitrophenol	80		64		30-130	22		50
4-Nitrophenol	88		82		11-114	7		50
2,4-Dinitrophenol	74		57		4-130	26		50
4,6-Dinitro-o-cresol	103		89		10-130	15		50
Pentachlorophenol	76		91		17-109	18		50
Phenol	82		85		26-90	4		50
2-Methylphenol	81		69		30-130	16		50
3-Methylphenol/4-Methylphenol	90		71		30-130	24		50
2,4,5-Trichlorophenol	90		82		30-130	9		50
Carbazole	77		83		54-128	8		50
Atrazine	99		103		40-140	4		50
Benzaldehyde	76		82		40-140	8		50
Caprolactam	93		85		15-130	9		50
2,3,4,6-Tetrachlorophenol	90		78		40-140	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1216229-2 WG1216229-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		77		25-120
Phenol-d6	78		83		10-120
Nitrobenzene-d5	78		69		23-120
2-Fluorobiphenyl	82		79		30-120
2,4,6-Tribromophenol	90		89		10-136
4-Terphenyl-d14	79		88		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

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): 01-02 QC Batch ID: WG1216229-4 WG1216229-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Acenaphthene	440	1500	1900	98		1600	77		31-137	17		50
Hexachlorobenzene	ND	1500	930	62		1000	67		40-140	7		50
Bis(2-chloroethyl)ether	ND	1500	900	60		960	64		40-140	6		50
2-Chloronaphthalene	ND	1500	920	62		1000	67		40-140	8		50
3,3'-Dichlorobenzidine	ND	1500	310	21	Q	540	36	Q	40-140	54	Q	50
2,4-Dinitrotoluene	ND	1500	880	59		930	62		40-132	6		50
2,6-Dinitrotoluene	ND	1500	860	57		1000	67		40-140	15		50
Fluoranthene	3600	1500	7500E	260	Q	5700	140		40-140	27		50
4-Chlorophenyl phenyl ether	ND	1500	960	64		1000	67		40-140	4		50
4-Bromophenyl phenyl ether	ND	1500	940	63		1000	67		40-140	6		50
Bis(2-chloroisopropyl)ether	ND	1500	950	64		1000	67		40-140	5		50
Bis(2-chloroethoxy)methane	ND	1500	970	65		1000	67		40-117	3		50
Hexachlorobutadiene	ND	1500	850	57		960	64		40-140	12		50
Hexachlorocyclopentadiene	ND	1500	550	37	Q	560	37	Q	40-140	2		50
Hexachloroethane	ND	1500	890	59		900	60		40-140	1		50
Isophorone	ND	1500	1000	67		1100	73		40-140	10		50
Naphthalene	710	1500	2600	130		2000	86		40-140	26		50
Nitrobenzene	ND	1500	1000	67		1100	73		40-140	10		50
NDPA/DPA	ND	1500	1000	67		1100	73		36-157	10		50
n-Nitrosodi-n-propylamine	ND	1500	980	66		1100	73		32-121	12		50
Bis(2-ethylhexyl)phthalate	74J	1500	970	65		1100	73		40-140	13		50
Butyl benzyl phthalate	ND	1500	730	49		850	57		40-140	15		50
Di-n-butylphthalate	ND	1500	880	59		960	64		40-140	9		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

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): 01-02 QC Batch ID: WG1216229-4 WG1216229-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Di-n-octylphthalate	ND	1500	920	62		1000	67		40-140	8		50
Diethyl phthalate	ND	1500	910	61		1000	67		40-140	9		50
Dimethyl phthalate	ND	1500	910	61		1000	67		40-140	9		50
Benzo(a)anthracene	1900	1500	4700	190	Q	3700	120		40-140	24		50
Benzo(a)pyrene	1500	1500	3700	150	Q	2900	93		40-140	24		50
Benzo(b)fluoranthene	1800	1500	4300	170	Q	3400	110		40-140	23		50
Benzo(k)fluoranthene	560	1500	1800	83		1800	83		40-140	0		50
Chrysene	1800	1500	4300	170	Q	3500	110		40-140	21		50
Acenaphthylene	580	1500	2000	95		1800	81		40-140	11		50
Anthracene	1100	1500	3200	140		2500	93		40-140	25		50
Benzo(ghi)perylene	910	1500	2500	110		2000	73		40-140	22		50
Fluorene	710	1500	2500	120		2100	93		40-140	17		50
Phenanthrene	4800	1500	10000E	350	Q	7400	170	Q	40-140	30		50
Dibenzo(a,h)anthracene	220	1500	1200	66		1200	65		40-140	0		50
Indeno(1,2,3-cd)pyrene	810	1500	2400	110		2100	86		40-140	13		50
Pyrene	3200	1500	6800	240	Q	5300	140		35-142	25		50
Biphenyl	88J	1500	1200	80		1200	80		54-104	0		50
4-Chloroaniline	ND	1500	350	23	Q	450	30	Q	40-140	25		50
2-Nitroaniline	ND	1500	950	64		1100	73		47-134	15		50
3-Nitroaniline	ND	1500	670	45		820	55		26-129	20		50
4-Nitroaniline	ND	1500	1000	67		1100	73		41-125	10		50
Dibenzofuran	450	1500	2000	100		1700	83		40-140	16		50
2-Methylnaphthalene	340	1500	1700	91		1500	77		40-140	13		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

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): 01-02 QC Batch ID: WG1216229-4 WG1216229-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												
1,2,4,5-Tetrachlorobenzene	ND	1500	1000	67		1100	73		40-117	10		50
Acetophenone	ND	1500	950	64		1000	67		14-144	5		50
2,4,6-Trichlorophenol	ND	1500	980	66		1100	73		30-130	12		50
p-Chloro-m-cresol	ND	1500	980	66		1100	73		26-103	12		50
2-Chlorophenol	ND	1500	950	64		1000	67		25-102	5		50
2,4-Dichlorophenol	ND	1500	1000	67		1100	73		30-130	10		50
2,4-Dimethylphenol	ND	1500	1100	74		1100	73		30-130	0		50
2-Nitrophenol	ND	1500	1000	67		1100	73		30-130	10		50
4-Nitrophenol	ND	1500	1100	74		1200	80		11-114	9		50
2,4-Dinitrophenol	ND	1500	370J	25		280J	19		4-130	28		50
4,6-Dinitro-o-cresol	ND	1500	740	49		550	37		10-130	29		50
Pentachlorophenol	ND	1500	950	64		1000	67		17-109	5		50
Phenol	ND	1500	990	66		1000	67		26-90	1		50
2-Methylphenol	ND	1500	1000	67		1100	73		30-130.	10		50
3-Methylphenol/4-Methylphenol	41J	1500	1100	74		1100	73		30-130	0		50
2,4,5-Trichlorophenol	ND	1500	1000	67		1200	80		30-130	18		50
Carbazole	450	1500	1700	84		1500	70		54-128	13		50
Atrazine	ND	1500	1100	74		1200	80		40-140	9		50
Benzaldehyde	ND	1500	860	57		930	62		40-140	8		50
Caprolactam	ND	1500	1100	74		1200	80		15-130	9		50
2,3,4,6-Tetrachlorophenol	ND	1500	920	62		1000	67		40-140	8		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19

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): 01-02 QC Batch ID: WG1216229-4 WG1216229-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	66		72		10-136
2-Fluorobiphenyl	61		69		30-120
2-Fluorophenol	64		68		25-120
4-Terphenyl-d14	51		56		18-120
Nitrobenzene-d5	68		73		23-120
Phenol-d6	63		68		10-120

PCBS

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-01
Client ID: RISB8_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:15
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/17/19 19:10
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 03/16/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	3.29	1	A
Aroclor 1221	ND		ug/kg	37.0	3.71	1	A
Aroclor 1232	ND		ug/kg	37.0	7.85	1	A
Aroclor 1242	ND		ug/kg	37.0	4.99	1	A
Aroclor 1248	ND		ug/kg	37.0	5.55	1	A
Aroclor 1254	ND		ug/kg	37.0	4.05	1	A
Aroclor 1260	ND		ug/kg	37.0	6.84	1	A
Aroclor 1262	ND		ug/kg	37.0	4.70	1	A
Aroclor 1268	ND		ug/kg	37.0	3.84	1	A
PCBs, Total	ND		ug/kg	37.0	3.29	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-02
Client ID: RISB11_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/17/19 19:49
Analyst: HT
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 03/16/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/16/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	3.41	1	A
Aroclor 1221	ND		ug/kg	38.4	3.85	1	A
Aroclor 1232	ND		ug/kg	38.4	8.14	1	A
Aroclor 1242	ND		ug/kg	38.4	5.18	1	A
Aroclor 1248	ND		ug/kg	38.4	5.76	1	A
Aroclor 1254	43.8		ug/kg	38.4	4.20	1	B
Aroclor 1260	ND		ug/kg	38.4	7.10	1	A
Aroclor 1262	ND		ug/kg	38.4	4.88	1	A
Aroclor 1268	ND		ug/kg	38.4	3.98	1	A
PCBs, Total	43.8		ug/kg	38.4	3.41	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/17/19 20:14
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 04:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/16/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1216240-1						
Aroclor 1016	ND		ug/kg	32.8	2.91	A
Aroclor 1221	ND		ug/kg	32.8	3.28	A
Aroclor 1232	ND		ug/kg	32.8	6.95	A
Aroclor 1242	ND		ug/kg	32.8	4.42	A
Aroclor 1248	ND		ug/kg	32.8	4.92	A
Aroclor 1254	ND		ug/kg	32.8	3.59	A
Aroclor 1260	ND		ug/kg	32.8	6.06	A
Aroclor 1262	ND		ug/kg	32.8	4.16	A
Aroclor 1268	ND		ug/kg	32.8	3.40	A
PCBs, Total	ND		ug/kg	32.8	2.91	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	131		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	122		30-150	B
Decachlorobiphenyl	136		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1216240-2 WG1216240-3									
Aroclor 1016	75		88		40-140	16		50	A
Aroclor 1260	71		84		40-140	17		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		93		30-150	A
Decachlorobiphenyl	67		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		91		30-150	B
Decachlorobiphenyl	81		89		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

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): 01-02 QC Batch ID: WG1216240-4 WG1216240-5 QC Sample: L1910377-01 Client ID: RISB8_2-4													
Aroclor 1016	ND	229	138	60		155	65		40-140	12		50	A
Aroclor 1260	ND	229	126	55		136	57		40-140	8		50	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		62		30-150	A
Decachlorobiphenyl	56		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		57		30-150	B
Decachlorobiphenyl	74		76		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-01
 Client ID: RISB8_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:15
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/18/19 11:21
 Analyst: SL
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:41
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.741	0.331	1	A
Alpha-BHC	ND		ug/kg	0.741	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.675	1	A
Heptachlor	ND		ug/kg	0.890	0.399	1	A
Aldrin	ND		ug/kg	1.78	0.626	1	A
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	A
Endrin	ND		ug/kg	0.741	0.304	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.778	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.556	1	A
4,4'-DDE	ND		ug/kg	1.78	0.412	1	A
4,4'-DDD	ND		ug/kg	1.78	0.635	1	A
4,4'-DDT	2.78	JIP	ug/kg	3.34	1.43	1	B
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	1.37	JIP	ug/kg	1.78	0.595	1	A
Endosulfan sulfate	ND		ug/kg	0.741	0.353	1	A
Methoxychlor	ND		ug/kg	3.34	1.04	1	A
Toxaphene	ND		ug/kg	33.4	9.34	1	A
cis-Chlordane	ND		ug/kg	2.22	0.620	1	A
trans-Chlordane	ND	IP	ug/kg	2.22	0.587	1	A
Chlordane	ND		ug/kg	14.4	5.89	1	A

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS****Lab ID:** L1910377-01**Date Collected:** 03/15/19 10:15**Client ID:** RISB8_2-4**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-02
 Client ID: RISB11_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/18/19 11:56
 Analyst: SL
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 03/16/19 03:41
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/17/19

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	0.750	0.335	1	A
Alpha-BHC	ND		ug/kg	0.750	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.682	1	A
Heptachlor	ND		ug/kg	0.900	0.403	1	A
Aldrin	ND		ug/kg	1.80	0.634	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.750	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.787	1	A
Endrin ketone	ND		ug/kg	1.80	0.463	1	A
Dieldrin	9.82		ug/kg	1.12	0.562	1	B
4,4'-DDE	37.9		ug/kg	1.80	0.416	1	A
4,4'-DDD	35.2		ug/kg	1.80	0.642	1	B
4,4'-DDT	91.7		ug/kg	3.37	1.45	1	B
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.601	1	A
Endosulfan sulfate	ND		ug/kg	0.750	0.357	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.45	1	A
cis-Chlordane	6.03		ug/kg	2.25	0.627	1	A
trans-Chlordane	4.10	IP	ug/kg	2.25	0.594	1	A
Chlordane	58.6		ug/kg	14.6	5.96	1	B

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-02

Date Collected: 03/15/19 12:10

Client ID: RISB11_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/16/19 15:51
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/15/19 23:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1216201-1						
Delta-BHC	ND		ug/kg	1.53	0.299	A
Lindane	ND		ug/kg	0.637	0.285	A
Alpha-BHC	ND		ug/kg	0.637	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.580	A
Heptachlor	ND		ug/kg	0.764	0.343	A
Aldrin	ND		ug/kg	1.53	0.538	A
Heptachlor epoxide	ND		ug/kg	2.87	0.860	A
Endrin	ND		ug/kg	0.637	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.669	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.955	0.478	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.545	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.511	A
Endosulfan sulfate	ND		ug/kg	0.637	0.303	A
Methoxychlor	ND		ug/kg	2.87	0.892	A
Toxaphene	ND		ug/kg	28.7	8.02	A
cis-Chlordane	ND		ug/kg	1.91	0.532	A
trans-Chlordane	ND		ug/kg	1.91	0.504	A
Chlordane	ND		ug/kg	12.4	5.06	A

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 03/16/19 15:51
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/15/19 23:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/16/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1216201-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	87		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1216201-2 WG1216201-3									
Delta-BHC	88		73		30-150	19		30	A
Lindane	91		74		30-150	21		30	A
Alpha-BHC	88		70		30-150	23		30	A
Beta-BHC	85		69		30-150	21		30	A
Heptachlor	51		52		30-150	2		30	A
Aldrin	80		64		30-150	22		30	A
Heptachlor epoxide	86		73		30-150	16		30	A
Endrin	89		77		30-150	14		30	A
Endrin aldehyde	65		57		30-150	13		30	A
Endrin ketone	80		69		30-150	15		30	A
Dieldrin	92		70		30-150	27		30	A
4,4'-DDE	69		63		30-150	9		30	A
4,4'-DDD	88		71		30-150	21		30	A
4,4'-DDT	80		68		30-150	16		30	A
Endosulfan I	74		64		30-150	14		30	A
Endosulfan II	84		70		30-150	18		30	A
Endosulfan sulfate	72		64		30-150	12		30	A
Methoxychlor	78		66		30-150	17		30	A
cis-Chlordane	71		61		30-150	15		30	A
trans-Chlordane	84		71		30-150	17		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1216201-2 WG1216201-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		66		30-150	B
Decachlorobiphenyl	89		78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		51		30-150	A
Decachlorobiphenyl	89		65		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

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: RISB8_2-4 Associated sample(s): 01-02 QC Batch ID: WG1216201-4 WG1216201-5 QC Sample: L1910377-01 Client													
Delta-BHC	ND	37	21.2	57		23.7	64		30-150	11		50	A
Lindane	ND	37	23.4	63		26.2	70		30-150	11		50	A
Alpha-BHC	ND	37	25.6	69		28.1	75		30-150	9		50	A
Beta-BHC	ND	37	17.0	46		15.1	41		30-150	12		50	A
Heptachlor	ND	37	23.1	63		25.0	67		30-150	8		50	A
Aldrin	ND	37	23.4	63		26.7	72		30-150	13		50	A
Heptachlor epoxide	ND	37	18.7	51		20.7	56		30-150	10		50	A
Endrin	ND	37	25.4	69		33.2	89		30-150	27		50	A
Endrin aldehyde	ND	37	14.6	40		17.4	47		30-150	18		50	A
Endrin ketone	ND	37	25.0	68		53.0	142		30-150	72	Q	50	A
Dieldrin	ND	37	24.0	65		28.7	77		30-150	18		50	A
4,4'-DDE	ND	37	20.1	54		24.6	66		30-150	20		50	A
4,4'-DDD	ND	37	22.0	60		26.1	70		30-150	17		50	A
4,4'-DDT	2.78JIP	37	29.9	81		44.0	118		30-150	38		50	B
Endosulfan I	ND	37	21.1	57		24.7	66		30-150	16		50	A
Endosulfan II	1.37JIP	37	21.2	57		26.4	71		30-150	22		50	A
Endosulfan sulfate	ND	37	15.2	41		20.4	55		30-150	29		50	A
Methoxychlor	ND	37	21.6	59		27.8	75		30-150	25		50	A
cis-Chlordane	ND	37	17.9	48		20.6	55		30-150	14		50	A
trans-Chlordane	NDIP	37	17.9	48		20.8	56		30-150	15		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19

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): 01-02 QC Batch ID: WG1216201-4 WG1216201-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		60		30-150	B
Decachlorobiphenyl	82		76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	56		63		30-150	A
Decachlorobiphenyl	76		103		30-150	A

METALS

Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-01

Date Collected: 03/15/19 10:15

Client ID: RISB8_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6330		mg/kg	9.08	2.45	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Antimony, Total	0.517	J	mg/kg	4.54	0.345	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Arsenic, Total	4.21		mg/kg	0.908	0.189	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Barium, Total	84.1		mg/kg	0.908	0.158	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Beryllium, Total	0.300	J	mg/kg	0.454	0.030	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.908	0.089	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Calcium, Total	10400		mg/kg	9.08	3.18	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Chromium, Total	7.64		mg/kg	0.908	0.087	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Cobalt, Total	3.65		mg/kg	1.82	0.151	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Copper, Total	16.1		mg/kg	0.908	0.234	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Iron, Total	9630		mg/kg	4.54	0.820	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Lead, Total	171		mg/kg	4.54	0.243	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Magnesium, Total	1700		mg/kg	9.08	1.40	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Manganese, Total	257		mg/kg	0.908	0.144	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Mercury, Total	0.457		mg/kg	0.089	0.019	1	03/18/19 20:58	03/19/19 10:33	EPA 7471B	1,7471B	GD
Nickel, Total	7.48		mg/kg	2.27	0.220	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Potassium, Total	542		mg/kg	227	13.1	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.82	0.234	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.908	0.257	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Sodium, Total	170	J	mg/kg	182	2.86	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.82	0.286	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Vanadium, Total	13.1		mg/kg	0.908	0.184	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB
Zinc, Total	142		mg/kg	4.54	0.266	2	03/18/19 20:30	03/18/19 23:20	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II-TAI SITE**Lab Number:** L1910377**Project Number:** 16.6334**Report Date:** 03/19/19**SAMPLE RESULTS**

Lab ID: L1910377-02

Date Collected: 03/15/19 12:10

Client ID: RISB11_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	6770		mg/kg	9.27	2.50	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Antimony, Total	0.982	J	mg/kg	4.63	0.352	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Arsenic, Total	5.42		mg/kg	0.927	0.193	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Barium, Total	85.2		mg/kg	0.927	0.161	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Beryllium, Total	0.287	J	mg/kg	0.463	0.031	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.927	0.091	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Calcium, Total	34500		mg/kg	9.27	3.24	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Chromium, Total	12.0		mg/kg	0.927	0.089	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Cobalt, Total	6.96		mg/kg	1.85	0.154	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Copper, Total	49.0		mg/kg	0.927	0.239	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Iron, Total	14000		mg/kg	4.63	0.837	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Lead, Total	93.3		mg/kg	4.63	0.248	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Magnesium, Total	6130		mg/kg	9.27	1.43	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Manganese, Total	305		mg/kg	0.927	0.147	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Mercury, Total	0.095	J	mg/kg	0.098	0.021	1	03/18/19 20:58	03/19/19 10:41	EPA 7471B	1,7471B	GD
Nickel, Total	16.0		mg/kg	2.32	0.224	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Potassium, Total	1130		mg/kg	232	13.3	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.85	0.239	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.927	0.262	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Sodium, Total	171	J	mg/kg	185	2.92	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.85	0.292	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Vanadium, Total	14.7		mg/kg	0.927	0.188	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB
Zinc, Total	109		mg/kg	4.63	0.272	2	03/18/19 20:30	03/18/19 23:37	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

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): 01-02 Batch: WG1216897-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Manganese, Total	0.068	J	mg/kg	0.400	0.064	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Sodium, Total	5.78	J	mg/kg	80.0	1.26	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/18/19 20:30	03/18/19 23:12	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/18/19 20:30	03/18/19 23:12	1,6010D	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): 01-02 Batch: WG1216900-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/18/19 20:58	03/19/19 10:29	1,7471B	GD



Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1216897-2 SRM Lot Number: D101-540								
Aluminum, Total	71		-		50-151	-		
Antimony, Total	167		-		3-196	-		
Arsenic, Total	96		-		83-117	-		
Barium, Total	92		-		83-118	-		
Beryllium, Total	95		-		83-117	-		
Cadmium, Total	98		-		83-117	-		
Calcium, Total	88		-		81-119	-		
Chromium, Total	91		-		81-118	-		
Cobalt, Total	98		-		84-116	-		
Copper, Total	92		-		83-116	-		
Iron, Total	84		-		62-138	-		
Lead, Total	93		-		83-117	-		
Magnesium, Total	82		-		76-124	-		
Manganese, Total	111		-		82-118	-		
Nickel, Total	96		-		82-117	-		
Potassium, Total	88		-		71-130	-		
Selenium, Total	98		-		79-121	-		
Silver, Total	93		-		80-120	-		
Sodium, Total	103		-		72-127	-		
Thallium, Total	100		-		81-119	-		
Vanadium, Total	89		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1216897-2 SRM Lot Number: D101-540					
Zinc, Total	95	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1216900-2 SRM Lot Number: D101-540					
Mercury, Total	89	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

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): 01-02 QC Batch ID: WG1216897-3 WG1216897-4 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Aluminum, Total	6330	176	6560	130	Q	7250	504	Q	75-125	10		20
Antimony, Total	0.517J	44.1	42.4	96		43.7	96		75-125	3		20
Arsenic, Total	4.21	10.6	15.5	107		14.9	98		75-125	4		20
Barium, Total	84.1	176	242	89		249	90		75-125	3		20
Beryllium, Total	0.300J	4.41	4.30	97		4.47	98		75-125	4		20
Cadmium, Total	ND	4.5	4.14	92		4.30	92		75-125	4		20
Calcium, Total	10400	882	9620	0	Q	11100	77		75-125	14		20
Chromium, Total	7.64	17.6	23.7	91		24.5	92		75-125	3		20
Cobalt, Total	3.65	44.1	43.5	90		44.6	90		75-125	2		20
Copper, Total	16.1	22	37.7	98		38.2	97		75-125	1		20
Iron, Total	9630	88.2	10800	1330	Q	9790	175	Q	75-125	10		20
Lead, Total	171	45	243	160	Q	211	86		75-125	14		20
Magnesium, Total	1700	882	2290	67	Q	2330	69	Q	75-125	2		20
Manganese, Total	257	44.1	292	79		294	81		75-125	1		20
Nickel, Total	7.48	44.1	47.1	90		47.9	89		75-125	2		20
Potassium, Total	542	882	1340	90		1480	103		75-125	10		20
Selenium, Total	ND	10.6	10.5	99		10.5	96		75-125	0		20
Silver, Total	ND	26.5	25.9	98		26.9	98		75-125	4		20
Sodium, Total	170J	882	1050	119		1230	135	Q	75-125	16		20
Thallium, Total	ND	10.6	8.70	82		9.09	83		75-125	4		20
Vanadium, Total	13.1	44.1	53.7	92		54.9	92		75-125	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

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): 01-02			QC Batch ID: WG1216897-3		WG1216897-4	QC Sample: L1910377-01		Client ID: RISB8_2-4				
Zinc, Total	142	44.1	186	100	188	101	75-125	1	20			
Total Metals - Mansfield Lab Associated sample(s): 01-02			QC Batch ID: WG1216900-8		WG1216900-9	QC Sample: L1910377-01		Client ID: RISB8_2-4				
Mercury, Total	0.457	0.153	0.790	218	Q	0.547	51	Q	80-120	36	Q	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-01

Date Collected: 03/15/19 10:15

Client ID: RISB8_2-4

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	03/16/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/17/19 17:00	03/18/19 11:15	1,9010C/9012B	LH
Chromium, Hexavalent	0.370	J	mg/kg	0.926	0.185	1	03/18/19 01:45	03/18/19 19:15	1,7196A	KF



Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

SAMPLE RESULTS

Lab ID: L1910377-02

Client ID: RISB11_2-4

Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:10

Date Received: 03/15/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	03/16/19 03:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/17/19 17:00	03/18/19 11:18	1,9010C/9012B	LH
Chromium, Hexavalent	0.376	J	mg/kg	0.940	0.188	1	03/18/19 01:45	03/18/19 19:15	1,7196A	KF



Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1216521-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/17/19 17:00	03/18/19 10:56	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1216555-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/18/19 01:45	03/18/19 19:15	1,7196A	KF

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1216521-2 WG1216521-3								
Cyanide, Total	72	Q	75	Q	80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1216555-2								
Chromium, Hexavalent	90		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Lab Number: L1910377

Project Number: 16.6334

Report Date: 03/19/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1216521-4 WG1216521-5 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Cyanide, Total	ND	11	11	100		11	97		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1216555-8 WG1216555-9 QC Sample: L1910377-01 Client ID: RISB8_2-4												
Chromium, Hexavalent	0.370J	1000	1030	103		700	75		75-125	38	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TAI SITE

Project Number: 16.6334

Lab Number: L1910377

Report Date: 03/19/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1216215-1 QC Sample: L1910377-01 Client ID: RISB8_2-4						
Solids, Total	86.4	87.9	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1216555-10 QC Sample: L1910377-01 Client ID: RISB8_2-4						
Chromium, Hexavalent	0.370J	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Serial_No:03191916:01
Lab Number: L1910377
Report Date: 03/19/19

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(*)
L1910377-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1910377-01A1	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1910377-01A2	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1910377-01B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01B1	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01B2	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01C1	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01C2	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-01D	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-01D1	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-01D2	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-01E	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-01E1	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-01F	Glass 120ml/4oz unpreserved	A	NA		4.7	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)
L1910377-02A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1910377-02B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)
L1910377-02C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	NYTCL-8260HLW-R2(14)

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Serial_No: 03191916:01
Lab Number: L1910377
Report Date: 03/19/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910377-02D	Glass 60ml unpreserved split	A	NA		4.7	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)
L1910377-02E	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-02F	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910377-03A	Vial MeOH preserved	A	NA		4.7	Y	Absent		HOLD-8260HLW(14)
L1910377-03B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-03C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-03D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		HOLD-WETCHEM()
L1910377-03E	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		HOLD-METAL(180)
L1910377-03F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		HOLD-8081(14),HOLD-8270(14),HOLD-8082()
L1910377-03G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		HOLD-8081(14),HOLD-8270(14),HOLD-8082()
L1910377-04A	Vial MeOH preserved	A	NA		4.7	Y	Absent		HOLD-8260HLW(14)
L1910377-04B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-04C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-04D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		HOLD-WETCHEM()
L1910377-04E	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		HOLD-METAL(180)
L1910377-04F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		HOLD-8081(14),HOLD-8270(14),HOLD-8082()
L1910377-04G	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		HOLD-8081(14),HOLD-8270(14),HOLD-8082()
L1910377-05A	Vial MeOH preserved	A	NA		4.7	Y	Absent		HOLD-8260HLW(14)
L1910377-05B	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-05C	Vial water preserved	A	NA		4.7	Y	Absent	16-MAR-19 02:32	HOLD-8260HLW(14)
L1910377-05D	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		HOLD-METAL(180)
L1910377-05E	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		HOLD-WETCHEM(),HOLD-8081(14),HOLD-8270(14),HOLD-8082()
L1910377-05F	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		HOLD-WETCHEM(),HOLD-8081(14),HOLD-8270(14),HOLD-8082()

Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TAI SITE
Project Number: 16.6334

Lab Number: L1910377
Report Date: 03/19/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

Date Rec'd
in Lab 3/16/19

ALPHA Job #
L1910377



ANALYTICAL REPORT

Lab Number:	L1910553
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II, TA1 SITE
Project Number:	16.6334
Report Date:	03/20/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910553-01	RISB1_2-4	SOIL	SCHENECTADY, NY	03/18/19 13:55	03/18/19
L1910553-02	RISB1_4-6	SOIL	SCHENECTADY, NY	03/18/19 14:00	03/18/19
L1910553-03	RISB1_6-8	SOIL	SCHENECTADY, NY	03/18/19 14:05	03/18/19
L1910553-04	RISB5_2-4	SOIL	SCHENECTADY, NY	03/18/19 15:05	03/18/19
L1910553-05	RISB5_4-6	SOIL	SCHENECTADY, NY	03/18/19 15:15	03/18/19
L1910553-06	RISB5_6-8	SOIL	SCHENECTADY, NY	03/18/19 15:10	03/18/19

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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.

Total Metals

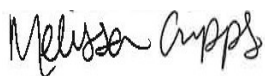
L1910553-01 and -04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1217136-2/-3 LCS/LCSD recoveries (53%/60%), associated with L1910553-01 and -04, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/20/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/20/19 00:30
Analyst: NLK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.96	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.96	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.96	0.12	1
Dibromochloromethane	ND		ug/kg	0.96	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.96	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.8	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.96	0.52	1
Ethylbenzene	ND		ug/kg	0.96	0.14	1
Chloromethane	ND		ug/kg	3.8	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.96	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1910553-01**Date Collected:** 03/18/19 13:55**Client ID:** RISB1_2-4**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.96	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.17	1
Styrene	ND		ug/kg	0.96	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.88	1
Acetone	ND		ug/kg	9.6	4.6	1
Carbon disulfide	ND		ug/kg	9.6	4.4	1
2-Butanone	ND		ug/kg	9.6	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	1.2	1
2-Hexanone	ND		ug/kg	9.6	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.96	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Isopropylbenzene	ND		ug/kg	0.96	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
Methyl Acetate	ND		ug/kg	3.8	0.91	1
Cyclohexane	ND		ug/kg	9.6	0.52	1
1,4-Dioxane	ND		ug/kg	77	34.	1
Freon-113	ND		ug/kg	3.8	0.67	1
Methyl cyclohexane	ND		ug/kg	3.8	0.58	1

Tentatively Identified Compounds

Total TIC Compounds	3.45	J	ug/kg	1
1-Pentene	3.45	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/20/19 00:57
Analyst: NLK
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04

Date Collected: 03/18/19 15:05

Client ID: RISB5_2-4

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	5.3	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Tentatively Identified Compounds

Total TIC Compounds	21.9	J	ug/kg	1
Unknown	21.9	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 19:34
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1217594-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/19/19 19:34
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1217594-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/19/19 19:34

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04 Batch: WG1217594-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1217594-3 WG1217594-4								
Methylene chloride	85		85		70-130	0		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	99		101		70-130	2		30
1,2-Dichloropropane	90		92		70-130	2		30
Dibromochloromethane	98		98		70-130	0		30
1,1,2-Trichloroethane	93		94		70-130	1		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	94		95		70-130	1		30
Trichlorofluoromethane	115		114		70-139	1		30
1,2-Dichloroethane	93		95		70-130	2		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	98		100		70-130	2		30
trans-1,3-Dichloropropene	95		98		70-130	3		30
cis-1,3-Dichloropropene	95		98		70-130	3		30
Bromoform	96		96		70-130	0		30
1,1,2,2-Tetrachloroethane	91		91		70-130	0		30
Benzene	89		90		70-130	1		30
Toluene	92		93		70-130	1		30
Ethylbenzene	95		96		70-130	1		30
Chloromethane	70		72		52-130	3		30
Bromomethane	130		125		57-147	4		30
Vinyl chloride	72		72		67-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1217594-3 WG1217594-4								
Chloroethane	118		116		50-151	2		30
1,1-Dichloroethene	116		115		65-135	1		30
trans-1,2-Dichloroethene	88		90		70-130	2		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	100		99		70-130	1		30
1,4-Dichlorobenzene	97		94		70-130	3		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	98		97		70-130	1		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Styrene	98		98		70-130	0		30
Dichlorodifluoromethane	77		80		30-146	4		30
Acetone	90		100		54-140	11		30
Carbon disulfide	104		105		59-130	1		30
2-Butanone	91		100		70-130	9		30
4-Methyl-2-pentanone	98		98		70-130	0		30
2-Hexanone	94		95		70-130	1		30
Bromochloromethane	96		97		70-130	1		30
1,2-Dibromoethane	95		96		70-130	1		30
1,2-Dibromo-3-chloropropane	98		98		68-130	0		30
Isopropylbenzene	96		95		70-130	1		30
1,2,3-Trichlorobenzene	99		99		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04 Batch: WG1217594-3 WG1217594-4								
1,2,4-Trichlorobenzene	103		101		70-130	2		30
Methyl Acetate	90		93		51-146	3		30
Cyclohexane	88		90		59-142	2		30
1,4-Dioxane	123		119		65-136	3		30
Freon-113	127		125		50-139	2		30
Methyl cyclohexane	93		94		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		103		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	103		106		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/19 02:03
Analyst: SZ
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 05:26

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	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	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	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	170	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	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	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01

Date Collected: 03/18/19 13:55

Client ID: RISB1_2-4

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	34.	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	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	244	J	ug/kg			1
Unknown Amide	244	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	70		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/20/19 01:37
Analyst: SZ
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 05:27

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	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	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	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	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	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	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1910553-04**Date Collected:** 03/18/19 15:05**Client ID:** RISB5_2-4**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	34.	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	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	224	J	ug/kg			1
Unknown Amide	224	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	64		18-120

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/19 14:37
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1216980-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
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	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/19 14:37
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1216980-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/19/19 14:37
 Analyst: ALS

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 04:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1216980-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	74		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	78		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1216980-2 WG1216980-3								
Acenaphthene	92		82		31-137	11		50
Hexachlorobenzene	104		90		40-140	14		50
Bis(2-chloroethyl)ether	81		67		40-140	19		50
2-Chloronaphthalene	93		78		40-140	18		50
3,3'-Dichlorobenzidine	90		82		40-140	9		50
2,4-Dinitrotoluene	82		73		40-132	12		50
2,6-Dinitrotoluene	90		76		40-140	17		50
Fluoranthene	94		81		40-140	15		50
4-Chlorophenyl phenyl ether	96		87		40-140	10		50
4-Bromophenyl phenyl ether	100		90		40-140	11		50
Bis(2-chloroisopropyl)ether	81		68		40-140	17		50
Bis(2-chloroethoxy)methane	89		74		40-117	18		50
Hexachlorobutadiene	82		68		40-140	19		50
Hexachlorocyclopentadiene	28	Q	15	Q	40-140	60	Q	50
Hexachloroethane	63		50		40-140	23		50
Isophorone	90		76		40-140	17		50
Naphthalene	84		69		40-140	20		50
Nitrobenzene	92		77		40-140	18		50
NDPA/DPA	102		91		36-157	11		50
n-Nitrosodi-n-propylamine	88		74		32-121	17		50
Bis(2-ethylhexyl)phthalate	114		104		40-140	9		50
Butyl benzyl phthalate	95		82		40-140	15		50
Di-n-butylphthalate	89		81		40-140	9		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1216980-2 WG1216980-3								
Di-n-octylphthalate	112		99		40-140	12		50
Diethyl phthalate	94		87		40-140	8		50
Dimethyl phthalate	95		83		40-140	13		50
Benzo(a)anthracene	102		90		40-140	13		50
Benzo(a)pyrene	99		88		40-140	12		50
Benzo(b)fluoranthene	98		87		40-140	12		50
Benzo(k)fluoranthene	98		88		40-140	11		50
Chrysene	100		88		40-140	13		50
Acenaphthylene	98		83		40-140	17		50
Anthracene	90		79		40-140	13		50
Benzo(ghi)perylene	88		80		40-140	10		50
Fluorene	101		88		40-140	14		50
Phenanthrene	87		78		40-140	11		50
Dibenzo(a,h)anthracene	87		80		40-140	8		50
Indeno(1,2,3-cd)pyrene	90		82		40-140	9		50
Pyrene	93		80		35-142	15		50
Biphenyl	96		82		54-104	16		50
4-Chloroaniline	48		43		40-140	11		50
2-Nitroaniline	116		102		47-134	13		50
3-Nitroaniline	112		101		26-129	10		50
4-Nitroaniline	130	Q	115		41-125	12		50
Dibenzofuran	95		86		40-140	10		50
2-Methylnaphthalene	87		73		40-140	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1216980-2 WG1216980-3								
1,2,4,5-Tetrachlorobenzene	100		82		40-117	20		50
Acetophenone	86		72		14-144	18		50
2,4,6-Trichlorophenol	102		88		30-130	15		50
p-Chloro-m-cresol	101		87		26-103	15		50
2-Chlorophenol	88		73		25-102	19		50
2,4-Dichlorophenol	99		84		30-130	16		50
2,4-Dimethylphenol	98		85		30-130	14		50
2-Nitrophenol	84		67		30-130	23		50
4-Nitrophenol	119	Q	101		11-114	16		50
2,4-Dinitrophenol	20		14		4-130	35		50
4,6-Dinitro-o-cresol	26		16		10-130	48		50
Pentachlorophenol	105		91		17-109	14		50
Phenol	88		71		26-90	21		50
2-Methylphenol	92		76		30-130	19		50
3-Methylphenol/4-Methylphenol	92		80		30-130	14		50
2,4,5-Trichlorophenol	112		94		30-130	17		50
Carbazole	92		80		54-128	14		50
Atrazine	112		99		40-140	12		50
Benzaldehyde	76		63		40-140	19		50
Caprolactam	111		98		15-130	12		50
2,3,4,6-Tetrachlorophenol	104		92		40-140	12		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1216980-2 WG1216980-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		68		25-120
Phenol-d6	82		68		10-120
Nitrobenzene-d5	90		76		23-120
2-Fluorobiphenyl	87		74		30-120
2,4,6-Tribromophenol	107		93		10-136
4-Terphenyl-d14	88		76		18-120

PCBS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 02:11
Analyst: HT
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 03:44
Cleanup Method: EPA 3665A
Cleanup Date: 03/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.07	1	A
Aroclor 1221	ND		ug/kg	34.6	3.46	1	A
Aroclor 1232	ND		ug/kg	34.6	7.33	1	A
Aroclor 1242	ND		ug/kg	34.6	4.66	1	A
Aroclor 1248	ND		ug/kg	34.6	5.18	1	A
Aroclor 1254	ND		ug/kg	34.6	3.78	1	A
Aroclor 1260	ND		ug/kg	34.6	6.39	1	A
Aroclor 1262	ND		ug/kg	34.6	4.39	1	A
Aroclor 1268	ND		ug/kg	34.6	3.58	1	A
PCBs, Total	ND		ug/kg	34.6	3.07	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 02:24
Analyst: HT
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 03:44
Cleanup Method: EPA 3665A
Cleanup Date: 03/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.04	1	A
Aroclor 1221	ND		ug/kg	34.2	3.43	1	A
Aroclor 1232	ND		ug/kg	34.2	7.25	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.32	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	106		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/20/19 01:33
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 03/19/19 03:44
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/19/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04 Batch: WG1216974-1						
Aroclor 1016	ND		ug/kg	33.2	2.94	A
Aroclor 1221	ND		ug/kg	33.2	3.32	A
Aroclor 1232	ND		ug/kg	33.2	7.03	A
Aroclor 1242	ND		ug/kg	33.2	4.47	A
Aroclor 1248	ND		ug/kg	33.2	4.97	A
Aroclor 1254	ND		ug/kg	33.2	3.63	A
Aroclor 1260	ND		ug/kg	33.2	6.13	A
Aroclor 1262	ND		ug/kg	33.2	4.21	A
Aroclor 1268	ND		ug/kg	33.2	3.44	A
PCBs, Total	ND		ug/kg	33.2	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	93		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1216974-2 WG1216974-3									
Aroclor 1016	111		102		40-140	8		50	A
Aroclor 1260	90		87		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		94		30-150	A
Decachlorobiphenyl	88		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		103		30-150	B
Decachlorobiphenyl	104		102		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/19/19 17:23
Analyst: BM
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 04:46
Cleanup Method: EPA 3620B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.684	0.306	1	A
Alpha-BHC	ND		ug/kg	0.684	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.623	1	A
Heptachlor	ND		ug/kg	0.821	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.578	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.924	1	A
Endrin	ND		ug/kg	0.684	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.718	1	A
Endrin ketone	ND		ug/kg	1.64	0.423	1	A
Dieldrin	ND		ug/kg	1.03	0.513	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.586	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.549	1	A
Endosulfan sulfate	ND		ug/kg	0.684	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.958	1	A
Toxaphene	ND		ug/kg	30.8	8.62	1	A
cis-Chlordane	ND		ug/kg	2.05	0.572	1	A
trans-Chlordane	ND		ug/kg	2.05	0.542	1	A
Chlordane	ND		ug/kg	13.3	5.44	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1910553-01**Date Collected:** 03/18/19 13:55**Client ID:** RISB1_2-4**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/19/19 17:35
Analyst: BM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/19/19 04:46
Cleanup Method: EPA 3620B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.697	0.311	1	A
Alpha-BHC	ND		ug/kg	0.697	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.940	1	A
Endrin	ND		ug/kg	0.697	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.731	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.697	0.332	1	A
Methoxychlor	ND		ug/kg	3.13	0.975	1	A
Toxaphene	ND		ug/kg	31.3	8.78	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.6	5.54	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS****Lab ID:** L1910553-04**Date Collected:** 03/18/19 15:05**Client ID:** RISB5_2-4**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	70		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/19/19 15:55
 Analyst: BM

Extraction Method: EPA 3546
 Extraction Date: 03/18/19 18:56
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1216892-1						
Delta-BHC	ND		ug/kg	1.51	0.295	A
Lindane	ND		ug/kg	0.628	0.281	A
Alpha-BHC	ND		ug/kg	0.628	0.178	A
Beta-BHC	ND		ug/kg	1.51	0.572	A
Heptachlor	ND		ug/kg	0.754	0.338	A
Aldrin	ND		ug/kg	1.51	0.531	A
Heptachlor epoxide	ND		ug/kg	2.83	0.848	A
Endrin	ND		ug/kg	0.628	0.258	A
Endrin aldehyde	ND		ug/kg	1.88	0.660	A
Endrin ketone	ND		ug/kg	1.51	0.388	A
Dieldrin	ND		ug/kg	0.943	0.471	A
4,4'-DDE	ND		ug/kg	1.51	0.349	A
4,4'-DDD	ND		ug/kg	1.51	0.538	A
4,4'-DDT	ND		ug/kg	2.83	1.21	A
Endosulfan I	ND		ug/kg	1.51	0.356	A
Endosulfan II	ND		ug/kg	1.51	0.504	A
Endosulfan sulfate	ND		ug/kg	0.628	0.299	A
Methoxychlor	ND		ug/kg	2.83	0.880	A
Toxaphene	ND		ug/kg	28.3	7.92	A
cis-Chlordane	ND		ug/kg	1.88	0.525	A
trans-Chlordane	ND		ug/kg	1.88	0.498	A
Chlordane	ND		ug/kg	12.2	5.00	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8081B
Analytical Date: 03/19/19 15:55
Analyst: BMExtraction Method: EPA 3546
Extraction Date: 03/18/19 18:56
Cleanup Method: EPA 3620B
Cleanup Date: 03/19/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04 Batch: WG1216892-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1216892-2 WG1216892-3									
Delta-BHC	86		96		30-150	11		30	A
Lindane	82		92		30-150	11		30	A
Alpha-BHC	84		93		30-150	10		30	A
Beta-BHC	99		122		30-150	21		30	A
Heptachlor	90		99		30-150	10		30	A
Aldrin	80		88		30-150	10		30	A
Heptachlor epoxide	96		106		30-150	10		30	A
Endrin	95		104		30-150	9		30	A
Endrin aldehyde	67		74		30-150	10		30	A
Endrin ketone	86		96		30-150	11		30	A
Dieldrin	89		98		30-150	10		30	A
4,4'-DDE	79		87		30-150	10		30	A
4,4'-DDD	85		94		30-150	10		30	A
4,4'-DDT	93		100		30-150	7		30	A
Endosulfan I	80		89		30-150	11		30	A
Endosulfan II	86		96		30-150	11		30	A
Endosulfan sulfate	75		83		30-150	10		30	A
Methoxychlor	87		94		30-150	8		30	A
cis-Chlordane	71		79		30-150	11		30	A
trans-Chlordane	77		83		30-150	8		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04 Batch: WG1216892-2 WG1216892-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		84		30-150	B
Decachlorobiphenyl	105		110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		84		30-150	A
Decachlorobiphenyl	104		108		30-150	A

METALS

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1910553-01

Date Collected: 03/18/19 13:55

Client ID: RISB1_2-4

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	6070		mg/kg	7.97	2.15	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Antimony, Total	0.359	J	mg/kg	3.98	0.303	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Arsenic, Total	1.90		mg/kg	0.797	0.166	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Barium, Total	24.0		mg/kg	0.797	0.139	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Beryllium, Total	0.279	J	mg/kg	0.398	0.026	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Cadmium, Total	0.199	J	mg/kg	0.797	0.078	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Calcium, Total	522		mg/kg	7.97	2.79	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Chromium, Total	5.11		mg/kg	0.797	0.077	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Cobalt, Total	2.96		mg/kg	1.59	0.132	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Copper, Total	6.62		mg/kg	0.797	0.206	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Iron, Total	9150		mg/kg	3.98	0.720	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Lead, Total	4.73		mg/kg	3.98	0.214	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Magnesium, Total	1220		mg/kg	7.97	1.23	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Manganese, Total	155		mg/kg	0.797	0.127	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/19/19 08:00	03/19/19 17:29	EPA 7471B	1,7471B	GD
Nickel, Total	7.07		mg/kg	1.99	0.193	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Potassium, Total	212		mg/kg	199	11.5	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.59	0.206	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.797	0.226	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Sodium, Total	28.4	J	mg/kg	159	2.51	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.59	0.251	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Vanadium, Total	10.4		mg/kg	0.797	0.162	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB
Zinc, Total	24.2		mg/kg	3.98	0.234	2	03/19/19 18:03	03/20/19 01:17	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910553**Project Number:** 16.6334**Report Date:** 03/20/19**SAMPLE RESULTS**

Lab ID: L1910553-04

Date Collected: 03/18/19 15:05

Client ID: RISB5_2-4

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5010		mg/kg	8.32	2.25	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Antimony, Total	0.374	J	mg/kg	4.16	0.316	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Arsenic, Total	2.20		mg/kg	0.832	0.173	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Barium, Total	13.1		mg/kg	0.832	0.145	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Beryllium, Total	0.266	J	mg/kg	0.416	0.027	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Cadmium, Total	0.216	J	mg/kg	0.832	0.082	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Calcium, Total	384		mg/kg	8.32	2.91	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Chromium, Total	4.99		mg/kg	0.832	0.080	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Cobalt, Total	3.57		mg/kg	1.66	0.138	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Copper, Total	7.89		mg/kg	0.832	0.215	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Iron, Total	9400		mg/kg	4.16	0.751	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Lead, Total	9.05		mg/kg	4.16	0.223	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Magnesium, Total	1310		mg/kg	8.32	1.28	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Manganese, Total	130		mg/kg	0.832	0.132	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.066	0.014	1	03/19/19 08:00	03/19/19 17:31	EPA 7471B	1,7471B	GD
Nickel, Total	7.36		mg/kg	2.08	0.201	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Potassium, Total	228		mg/kg	208	12.0	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.66	0.215	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.832	0.235	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Sodium, Total	16.0	J	mg/kg	166	2.62	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.262	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Vanadium, Total	10.6		mg/kg	0.832	0.169	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB
Zinc, Total	26.5		mg/kg	4.16	0.244	2	03/19/19 18:03	03/20/19 01:22	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

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): 01,04 Batch: WG1217015-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/19/19 08:00	03/19/19 16:31	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,04 Batch: WG1217281-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/19/19 18:03	03/19/19 22:50	1,6010D	AB

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910553**Report Date:** 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1217015-2 SRM Lot Number: D101-540								
Mercury, Total	103		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1217281-2 SRM Lot Number: D101-540					
Aluminum, Total	73	-	50-151	-	
Antimony, Total	167	-	3-196	-	
Arsenic, Total	102	-	83-117	-	
Barium, Total	102	-	83-118	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	99	-	83-117	-	
Calcium, Total	94	-	81-119	-	
Chromium, Total	97	-	81-118	-	
Cobalt, Total	99	-	84-116	-	
Copper, Total	99	-	83-116	-	
Iron, Total	88	-	62-138	-	
Lead, Total	104	-	83-117	-	
Magnesium, Total	89	-	76-124	-	
Manganese, Total	95	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	89	-	71-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	101	-	80-120	-	
Sodium, Total	101	-	72-127	-	
Thallium, Total	102	-	81-119	-	
Vanadium, Total	96	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910553**Report Date:** 03/20/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1217281-2 SRM Lot Number: D101-540					
Zinc, Total	101	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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): 01,04 QC Batch ID: WG1217015-3 QC Sample: L1909873-01 Client ID: MS Sample												
Mercury, Total	ND	0.564	0.329	58	Q	-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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): 01,04 QC Batch ID: WG1217281-3 QC Sample: L1910337-06 Client ID: MS Sample									
Aluminum, Total	13200	181	13700	276	Q	-	75-125	-	20
Antimony, Total	1.51J	45.3	39.2	86		-	75-125	-	20
Arsenic, Total	3.04	10.9	12.6	88		-	75-125	-	20
Barium, Total	74.8	181	259	102		-	75-125	-	20
Beryllium, Total	0.342J	4.53	4.56	100		-	75-125	-	20
Cadmium, Total	0.536J	4.62	4.78	103		-	75-125	-	20
Calcium, Total	4260	907	6250	219	Q	-	75-125	-	20
Chromium, Total	25.2	18.1	41.5	90		-	75-125	-	20
Cobalt, Total	7.25	45.3	54.4	104		-	75-125	-	20
Copper, Total	22.2	22.7	54.0	140	Q	-	75-125	-	20
Iron, Total	23600	90.7	21200	0	Q	-	75-125	-	20
Lead, Total	66.1	46.2	150	181	Q	-	75-125	-	20
Magnesium, Total	3530	907	5230	187	Q	-	75-125	-	20
Manganese, Total	142	45.3	310	370	Q	-	75-125	-	20
Nickel, Total	16.6	45.3	65.1	107		-	75-125	-	20
Potassium, Total	1970	907	3250	141	Q	-	75-125	-	20
Selenium, Total	ND	10.9	9.88	91		-	75-125	-	20
Silver, Total	ND	27.2	24.9	92		-	75-125	-	20
Sodium, Total	88.4J	907	958	106		-	75-125	-	20
Thallium, Total	ND	10.9	8.21	75		-	75-125	-	20
Vanadium, Total	38.2	45.3	76.6	85		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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): 01,04 QC Batch ID: WG1217281-3 QC Sample: L1910337-06 Client ID: MS Sample									
Zinc, Total	39.9	45.3	110	155	Q	-	-	75-125	- 20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910553**Report Date:** 03/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1217015-4 QC Sample: L1909873-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910553

Report Date: 03/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1217281-4 QC Sample: L1910337-06 Client ID: DUP Sample					
Aluminum, Total	13200	14200	mg/kg	7	20
Antimony, Total	1.51J	1.66J	mg/kg	NC	20
Arsenic, Total	3.04	2.94	mg/kg	3	20
Barium, Total	74.8	95.5	mg/kg	24	Q 20
Beryllium, Total	0.342J	0.446J	mg/kg	NC	20
Cadmium, Total	0.536J	0.623J	mg/kg	NC	20
Chromium, Total	25.2	28.2	mg/kg	11	20
Cobalt, Total	7.25	10.0	mg/kg	32	Q 20
Copper, Total	22.2	28.9	mg/kg	26	Q 20
Iron, Total	23600	24600	mg/kg	4	20
Lead, Total	66.1	96.7	mg/kg	38	Q 20
Manganese, Total	142	240	mg/kg	51	Q 20
Nickel, Total	16.6	19.1	mg/kg	14	20
Selenium, Total	ND	0.344J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	38.2	40.9	mg/kg	7	20
Zinc, Total	39.9	49.6	mg/kg	22	Q 20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-01
Client ID: RISB1_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 13:55
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/19/19 10:09	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	03/19/19 14:20	03/20/19 11:28	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.847	0.169	1	03/19/19 09:15	03/19/19 15:32	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

SAMPLE RESULTS

Lab ID: L1910553-04
Client ID: RISB5_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 15:05
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	03/19/19 10:09	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/19/19 14:20	03/20/19 11:29	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.842	0.168	1	03/19/19 09:15	03/19/19 15:32	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910553

Project Number: 16.6334

Report Date: 03/20/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1217067-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/19/19 09:15	03/19/19 15:32	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1217136-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	03/19/19 14:20	03/20/19 11:22	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1217067-2								
Chromium, Hexavalent	90		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1217136-2 WG1217136-3								
Cyanide, Total	53	Q	60	Q	80-120	8		35

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1217067-4 WG1217067-5 QC Sample: L1910554-01 Client ID: MS Sample												
Chromium, Hexavalent	ND	1000	995	99		1080	100		75-125	8		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1217136-4 WG1217136-5 QC Sample: L1910554-01 Client ID: MS Sample												
Cyanide, Total	ND	10	6.9	67	Q	9.8	91		75-125	35		35

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1217067-7 QC Sample: L1910554-01 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1217097-1 QC Sample: L1910511-01 Client ID: DUP Sample						
Solids, Total	94.9	95.0	%	0		20

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No:03201913:30
Lab Number: L1910553
Report Date: 03/20/19

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(*)
L1910553-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910553-01B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	NYTCL-8260HLW-R2(14)
L1910553-01C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	NYTCL-8260HLW-R2(14)
L1910553-01D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1910553-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	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)
L1910553-01F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910553-01G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910553-02A	Vial MeOH preserved	A	NA		3.2	Y	Absent		HOLD-8260HLW(14)
L1910553-02B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-02C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-02D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1910553-02F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-02G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-03A	Vial MeOH preserved	A	NA		3.2	Y	Absent		HOLD-8260HLW(14)
L1910553-03B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-03C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-03D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1910553-03F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No: 03201913:30
Lab Number: L1910553
Report Date: 03/20/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910553-03G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-04A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910553-04B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	NYTCL-8260HLW-R2(14)
L1910553-04C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	NYTCL-8260HLW-R2(14)
L1910553-04D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		TS(7)
L1910553-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	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)
L1910553-04F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910553-04G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910553-05A	Vial MeOH preserved	A	NA		3.2	Y	Absent		HOLD-8260HLW(14)
L1910553-05B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-05C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-05D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1910553-05F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-05G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-06A	Vial MeOH preserved	A	NA		3.2	Y	Absent		HOLD-8260HLW(14)
L1910553-06B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-06C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:21	HOLD-8260HLW(14)
L1910553-06D	Plastic 2oz unpreserved for TS	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		HOLD-METAL(180)
L1910553-06F	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)
L1910553-06G	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		HOLD-8270(14)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910553
Report Date: 03/20/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page of		Date Rec'd in Lab 3/19/19		ALPHA Job # L1910553																																																																																																																																																																																																																												
		Project Information Project Name: <u>Hamilton Hill II, TAI Site</u> Project Location: <u>Schenectady, NY</u> Project # <u>11.6334</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☐ Same as Client Info PO #																																																																																																																																																																																																																										
		Client Information Client: <u>ITMalc Associates</u> Address: <u>50 Century Hill Drive</u> <u>Latham, NY 12110</u> Phone: <u>518-786-7400</u> Fax: <u>A.Smith@itmalc.com</u> Email: <u>ic.moline@itmalc.com</u>				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																																																																										
Turn-Around Time Standard ☐ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hour</u>				ANALYSIS						Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																																																																																																								
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ALPHA Lab ID (Lab Use Only)</th> <th>Sample ID</th> <th colspan="2">Collection</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th>TU Vial</th> <th>TU SVOL</th> <th>TU P/B</th> <th>TU Rest</th> <th>TAL Metals</th> <th>Following Analysis by Alpha Lab</th> <th>Sample Specific Comments</th> <th></th> </tr> <tr> <th></th> <th></th> <th>Date</th> <th>Time</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>10553 - 01</td> <td>RI5B1-2-4</td> <td>3/18/14</td> <td>1355</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>48 Hr TAT</td> <td>7</td> </tr> <tr> <td>-02</td> <td>RI5B1-4-6</td> <td></td> <td>1400</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> <td>7</td> </tr> <tr> <td>-03</td> <td>RI5B1-6-8</td> <td></td> <td>1405</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> <td>7</td> </tr> <tr> <td>-04</td> <td>RI5B5-2-4</td> <td></td> <td>1505</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>48 Hr TAT</td> <td>7</td> </tr> <tr> <td>-05</td> <td>RI5B5-4-6</td> <td></td> <td>1515</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> <td>7</td> </tr> <tr> <td>-06</td> <td>RI5B5-6-8</td> <td></td> <td>1510</td> <td>Soil</td> <td>DA</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> <td>7</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	TU Vial	TU SVOL	TU P/B	TU Rest	TAL Metals	Following Analysis by Alpha Lab	Sample Specific Comments				Date	Time											10553 - 01	RI5B1-2-4	3/18/14	1355	Soil	DA	x	x	x	x	x	x	48 Hr TAT	7	-02	RI5B1-4-6		1400	Soil	DA	x	x	x	x	x	Hold Analysis	7	-03	RI5B1-6-8		1405	Soil	DA	x	x	x	x	x	Hold Analysis	7	-04	RI5B5-2-4		1505	Soil	DA	x	x	x	x	x	48 Hr TAT	7	-05	RI5B5-4-6		1515	Soil	DA	x	x	x	x	x	Hold Analysis	7	-06	RI5B5-6-8		1510	Soil	DA	x	x	x	x	x	Hold Analysis	7																																																																																																															
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TU Vial	TU SVOL	TU P/B	TU Rest	TAL Metals	Following Analysis by Alpha Lab	Sample Specific Comments																																																																																																																																																																																																																								
		Date	Time																																																																																																																																																																																																																																	
10553 - 01	RI5B1-2-4	3/18/14	1355	Soil	DA	x	x	x	x	x	x	48 Hr TAT	7																																																																																																																																																																																																																							
-02	RI5B1-4-6		1400	Soil	DA	x	x	x	x	x	Hold Analysis	7																																																																																																																																																																																																																								
-03	RI5B1-6-8		1405	Soil	DA	x	x	x	x	x	Hold Analysis	7																																																																																																																																																																																																																								
-04	RI5B5-2-4		1505	Soil	DA	x	x	x	x	x	48 Hr TAT	7																																																																																																																																																																																																																								
-05	RI5B5-4-6		1515	Soil	DA	x	x	x	x	x	Hold Analysis	7																																																																																																																																																																																																																								
-06	RI5B5-6-8		1510	Soil	DA	x	x	x	x	x	Hold Analysis	7																																																																																																																																																																																																																								
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other				Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle				Westboro: Certification No: MA935 Mansfield: Certification No: MA015				Container Type: <u>VA</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> Preservative: <u>F</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u> <u>A</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																																																																																						
Requisitioned By: <u>[Signature]</u>				Date/Time: <u>3/18/14 16:30</u>		Received By: <u>[Signature]</u>				Date/Time: <u>3-18-14 16:30</u>		Date/Time: <u>3/19/19 00:50</u>																																																																																																																																																																																																																								



ANALYTICAL REPORT

Lab Number:	L1910554
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II, TA1 SITE
Project Number:	16.6334
Report Date:	03/25/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910554-01	RISB1_10-12	SOIL	SCHENECTADY, NY	03/18/19 14:15	03/18/19

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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.

Total Metals

L1910554-01: 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 WG1217319-3/-4 MS/MSD recoveries for aluminum (261%/247%), iron (MS at 535%) and manganese (MS at 178%), performed on L1910554-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1217719-7/-8 MS/MSD recoveries, performed on L1910554-01, are outside the acceptance criteria for mercury (59%/60%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1217136-2/-3 LCS/LCSD recoveries (53%/60%), associated with L1910554-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1217136-4 MS recovery (67%), performed on L1910554-01, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

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:



Amita Naik

Title: Technical Director/Representative

Date: 03/25/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

SAMPLE RESULTS

Lab ID: L1910554-01
Client ID: RISB1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 14:15
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/22/19 23:13
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS****Lab ID:** L1910554-01**Date Collected:** 03/18/19 14:15**Client ID:** RISB1_10-12**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.1	0.70	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS****Lab ID:** L1910554-01**Date Collected:** 03/18/19 14:15**Client ID:** RISB1_10-12**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	23.7	J	ug/kg	1
Pentadecane	2.60	NJ	ug/kg	1
Unknown Aromatic	3.99	J	ug/kg	1
Unknown	5.67	J	ug/kg	1
Unknown Alkane	2.75	J	ug/kg	1
Unknown	2.63	J	ug/kg	1
Undecane	3.40	NJ	ug/kg	1
Unknown	2.70	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	104		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910554

Project Number: 16.6334

Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 20:39
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219182-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 20:39
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219182-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	2.62	J	ug/kg
Unknown	2.62	J	ug/kg

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/22/19 20:39
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219182-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219182-3 WG1219182-4								
Methylene chloride	74		73		70-130	1		30
1,1-Dichloroethane	85		83		70-130	2		30
Chloroform	85		83		70-130	2		30
Carbon tetrachloride	86		82		70-130	5		30
1,2-Dichloropropane	83		83		70-130	0		30
Dibromochloromethane	83		81		70-130	2		30
1,1,2-Trichloroethane	87		84		70-130	4		30
Tetrachloroethene	76		72		70-130	5		30
Chlorobenzene	79		77		70-130	3		30
Trichlorofluoromethane	89		86		70-139	3		30
1,2-Dichloroethane	91		89		70-130	2		30
1,1,1-Trichloroethane	83		80		70-130	4		30
Bromodichloromethane	83		82		70-130	1		30
trans-1,3-Dichloropropene	89		86		70-130	3		30
cis-1,3-Dichloropropene	81		80		70-130	1		30
Bromoform	86		83		70-130	4		30
1,1,2,2-Tetrachloroethane	93		90		70-130	3		30
Benzene	78		77		70-130	1		30
Toluene	83		78		70-130	6		30
Ethylbenzene	83		79		70-130	5		30
Chloromethane	89		86		52-130	3		30
Bromomethane	91		83		57-147	9		30
Vinyl chloride	81		78		67-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219182-3 WG1219182-4								
Chloroethane	86		82		50-151	5		30
1,1-Dichloroethene	76		73		65-135	4		30
trans-1,2-Dichloroethene	77		73		70-130	5		30
Trichloroethene	77		76		70-130	1		30
1,2-Dichlorobenzene	83		80		70-130	4		30
1,3-Dichlorobenzene	83		79		70-130	5		30
1,4-Dichlorobenzene	83		80		70-130	4		30
Methyl tert butyl ether	86		85		66-130	1		30
p/m-Xylene	80		76		70-130	5		30
o-Xylene	80		76		70-130	5		30
cis-1,2-Dichloroethene	78		75		70-130	4		30
Styrene	80		77		70-130	4		30
Dichlorodifluoromethane	81		77		30-146	5		30
Acetone	110		112		54-140	2		30
Carbon disulfide	77		74		59-130	4		30
2-Butanone	110		109		70-130	1		30
4-Methyl-2-pentanone	98		97		70-130	1		30
2-Hexanone	106		106		70-130	0		30
Bromochloromethane	79		76		70-130	4		30
1,2-Dibromoethane	85		84		70-130	1		30
1,2-Dibromo-3-chloropropane	92		88		68-130	4		30
Isopropylbenzene	86		82		70-130	5		30
1,2,3-Trichlorobenzene	83		79		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219182-3 WG1219182-4								
1,2,4-Trichlorobenzene	82		79		70-130	4		30
Methyl Acetate	100		103		51-146	3		30
Cyclohexane	87		84		59-142	4		30
1,4-Dioxane	100		103		65-136	3		30
Freon-113	81		78		50-139	4		30
Methyl cyclohexane	80		75		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		112		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	108		108		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1219182-6 WG1219182-7 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Methylene chloride	ND	93.4	110	114		110	118		70-130	6		30
1,1-Dichloroethane	ND	93.4	120	127		130	133	Q	70-130	7		30
Chloroform	ND	93.4	110	119		120	126		70-130	9		30
Carbon tetrachloride	ND	93.4	120	126		130	136	Q	70-130	10		30
1,2-Dichloropropane	ND	93.4	110	115		120	122		70-130	9		30
Dibromochloromethane	ND	93.4	96	103		110	110		70-130	9		30
1,1,2-Trichloroethane	ND	93.4	99	106		110	112		70-130	7		30
Tetrachloroethene	ND	93.4	72	77		92	97		70-130	25		30
Chlorobenzene	ND	93.4	74	79		91	95		70-130	21		30
Trichlorofluoromethane	ND	93.4	140	154	Q	150	153	Q	70-139	1		30
1,2-Dichloroethane	ND	93.4	120	127		130	132	Q	70-130	6		30
1,1,1-Trichloroethane	ND	93.4	120	125		130	134	Q	70-130	9		30
Bromodichloromethane	ND	93.4	110	114		120	120		70-130	8		30
trans-1,3-Dichloropropene	ND	93.4	96	103		110	112		70-130	11		30
cis-1,3-Dichloropropene	ND	93.4	94	101		100	109		70-130	10		30
Bromoform	ND	93.4	93	100		99	104		70-130	6		30
1,1,2,2-Tetrachloroethane	ND	93.4	98	105		100	107		70-130	4		30
Benzene	ND	93.4	99	106		110	115		70-130	11		30
Toluene	ND	93.4	88	94		110	111		70-130	19		30
Ethylbenzene	ND	93.4	76	81		99	104		70-130	27		30
Chloromethane	ND	93.4	140	151	Q	140	150	Q	52-130	1		30
Bromomethane	ND	93.4	130	138		150	159	Q	57-147	16		30
Vinyl chloride	ND	93.4	120	132	Q	130	138	Q	67-130	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1219182-6 WG1219182-7 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Chloroethane	ND	93.4	110	122		120	130		50-151	8		30
1,1-Dichloroethene	ND	93.4	110	116		120	121		65-135	7		30
trans-1,2-Dichloroethene	ND	93.4	98	105		110	115		70-130	12		30
Trichloroethene	ND	93.4	91	97		110	111		70-130	16		30
1,2-Dichlorobenzene	ND	93.4	63	68	Q	77	81		70-130	20		30
1,3-Dichlorobenzene	ND	93.4	57	61	Q	75	79		70-130	28		30
1,4-Dichlorobenzene	ND	93.4	56	59	Q	72	76		70-130	26		30
Methyl tert butyl ether	ND	93.4	110	120		120	122		66-130	4		30
p/m-Xylene	ND	187	140	74		180	96		70-130	29		30
o-Xylene	ND	187	150	79		190	98		70-130	24		30
cis-1,2-Dichloroethene	ND	93.4	97	104		110	111		70-130	9		30
Styrene	ND	187	140	76		180	92		70-130	22		30
Dichlorodifluoromethane	ND	93.4	130	140		140	141		30-146	3		30
Acetone	ND	93.4	160	174	Q	150	158	Q	54-140	7		30
Carbon disulfide	ND	93.4	100	111		120	120		59-130	10		30
2-Butanone	ND	93.4	140	145	Q	130	131	Q	70-130	8		30
4-Methyl-2-pentanone	ND	93.4	120	124		120	125		70-130	3		30
2-Hexanone	ND	93.4	130	134	Q	120	130		70-130	1		30
Bromochloromethane	ND	93.4	95	102		100	106		70-130	6		30
1,2-Dibromoethane	ND	93.4	91	97		99	104		70-130	9		30
1,2-Dibromo-3-chloropropane	ND	93.4	92	99		95	99		68-130	3		30
Isopropylbenzene	ND	93.4	71	76		98	102		70-130	33	Q	30
1,2,3-Trichlorobenzene	ND	93.4	50	54	Q	59	61	Q	70-130	15		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910554**Report Date:** 03/25/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1219182-6 WG1219182-7 QC Sample: L1910554-01 Client ID: RISB1_10-12												
1,2,4-Trichlorobenzene	ND	93.4	46	49	Q	57	59	Q	70-130	21		30
Methyl Acetate	ND	93.4	180	188	Q	160	164	Q	51-146	11		30
Cyclohexane	ND	93.4	120	132		140	142		59-142	10		30
1,4-Dioxane	ND	4670	8200	175	Q	7100	148	Q	65-136	14		30
Freon-113	ND	93.4	120	126		130	132		50-139	7		30
Methyl cyclohexane	ND	93.4	100	107		110	119		70-130	13		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		119		70-130
4-Bromofluorobenzene	105		109		70-130
Dibromofluoromethane	102		101		70-130
Toluene-d8	102		102		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

SAMPLE RESULTS

Lab ID: L1910554-01
Client ID: RISB1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 14:15
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/22/19 18:25
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:11

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	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	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	61.	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS****Lab ID:** L1910554-01**Date Collected:** 03/18/19 14:15**Client ID:** RISB1_10-12**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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	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	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	74.	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	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	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	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	48.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS****Lab ID:** L1910554-01**Date Collected:** 03/18/19 14:15**Client ID:** RISB1_10-12**Date Received:** 03/18/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Tentatively Identified Compounds

Total TIC Compounds	1000	J	ug/kg			1
Unknown	1000	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	112		10-136
4-Terphenyl-d14	72		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:46
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217771-1					
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: HAMILTON HILL II, TA1 SITE

Lab Number: L1910554

Project Number: 16.6334

Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/21/19 23:46
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 19:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217771-1					
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: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:46
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:11

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217771-1					
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

Total TIC Compounds	344	J	ug/kg
Unknown	195	J	ug/kg
Unknown	149	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217771-2 WG1217771-3								
Acenaphthene	80		77		31-137	4		50
Hexachlorobenzene	84		80		40-140	5		50
Bis(2-chloroethyl)ether	88		80		40-140	10		50
2-Chloronaphthalene	77		75		40-140	3		50
3,3'-Dichlorobenzidine	61		59		40-140	3		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	89		85		40-140	5		50
Fluoranthene	76		76		40-140	0		50
4-Chlorophenyl phenyl ether	73		71		40-140	3		50
4-Bromophenyl phenyl ether	77		75		40-140	3		50
Bis(2-chloroisopropyl)ether	98		90		40-140	9		50
Bis(2-chloroethoxy)methane	85		77		40-117	10		50
Hexachlorobutadiene	72		71		40-140	1		50
Hexachlorocyclopentadiene	52		52		40-140	0		50
Hexachloroethane	88		82		40-140	7		50
Isophorone	85		79		40-140	7		50
Naphthalene	79		76		40-140	4		50
Nitrobenzene	91		84		40-140	8		50
NDPA/DPA	84		79		36-157	6		50
n-Nitrosodi-n-propylamine	86		80		32-121	7		50
Bis(2-ethylhexyl)phthalate	98		92		40-140	6		50
Butyl benzyl phthalate	84		84		40-140	0		50
Di-n-butylphthalate	94		94		40-140	0		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217771-2 WG1217771-3								
Di-n-octylphthalate	111		107		40-140	4		50
Diethyl phthalate	92		86		40-140	7		50
Dimethyl phthalate	80		75		40-140	6		50
Benzo(a)anthracene	83		78		40-140	6		50
Benzo(a)pyrene	91		85		40-140	7		50
Benzo(b)fluoranthene	91		86		40-140	6		50
Benzo(k)fluoranthene	82		78		40-140	5		50
Chrysene	83		77		40-140	8		50
Acenaphthylene	80		74		40-140	8		50
Anthracene	77		73		40-140	5		50
Benzo(ghi)perylene	83		79		40-140	5		50
Fluorene	80		77		40-140	4		50
Phenanthrene	74		71		40-140	4		50
Dibenzo(a,h)anthracene	79		76		40-140	4		50
Indeno(1,2,3-cd)pyrene	83		78		40-140	6		50
Pyrene	78		76		35-142	3		50
Biphenyl	80		78		54-104	3		50
4-Chloroaniline	80		77		40-140	4		50
2-Nitroaniline	91		88		47-134	3		50
3-Nitroaniline	66		63		26-129	5		50
4-Nitroaniline	87		85		41-125	2		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	77		75		40-140	3		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217771-2 WG1217771-3								
1,2,4,5-Tetrachlorobenzene	78		75		40-117	4		50
Acetophenone	92		83		14-144	10		50
2,4,6-Trichlorophenol	83		79		30-130	5		50
p-Chloro-m-cresol	92		88		26-103	4		50
2-Chlorophenol	90		84		25-102	7		50
2,4-Dichlorophenol	91		82		30-130	10		50
2,4-Dimethylphenol	88		82		30-130	7		50
2-Nitrophenol	98		89		30-130	10		50
4-Nitrophenol	101		97		11-114	4		50
2,4-Dinitrophenol	79		76		4-130	4		50
4,6-Dinitro-o-cresol	90		88		10-130	2		50
Pentachlorophenol	68		68		17-109	0		50
Phenol	83		79		26-90	5		50
2-Methylphenol	88		82		30-130.	7		50
3-Methylphenol/4-Methylphenol	94		87		30-130	8		50
2,4,5-Trichlorophenol	85		82		30-130	4		50
Carbazole	81		78		54-128	4		50
Atrazine	81		76		40-140	6		50
Benzaldehyde	78		73		40-140	7		50
Caprolactam	121		119		15-130	2		50
2,3,4,6-Tetrachlorophenol	84		79		40-140	6		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217771-2 WG1217771-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		83		25-120
Phenol-d6	83		80		10-120
Nitrobenzene-d5	91		84		23-120
2-Fluorobiphenyl	75		70		30-120
2,4,6-Tribromophenol	99		93		10-136
4-Terphenyl-d14	72		68		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

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 QC Batch ID: WG1217771-4 WG1217771-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Acenaphthene	ND	1420	1100	77		1100	77		31-137	0		50
Hexachlorobenzene	ND	1420	1100	77		1100	77		40-140	0		50
Bis(2-chloroethyl)ether	ND	1420	1200	84		1200	85		40-140	0		50
2-Chloronaphthalene	ND	1420	1100	77		1000	70		40-140	10		50
3,3'-Dichlorobenzidine	ND	1420	930	65		870	61		40-140	7		50
2,4-Dinitrotoluene	ND	1420	1300	91		1300	92		40-132	0		50
2,6-Dinitrotoluene	ND	1420	1200	84		1200	85		40-140	0		50
Fluoranthene	ND	1420	1100	77		1000	70		40-140	10		50
4-Chlorophenyl phenyl ether	ND	1420	1000	70		1000	70		40-140	0		50
4-Bromophenyl phenyl ether	ND	1420	1000	70		1000	70		40-140	0		50
Bis(2-chloroisopropyl)ether	ND	1420	1400	98		1400	99		40-140	0		50
Bis(2-chloroethoxy)methane	ND	1420	1200	84		1200	85		40-117	0		50
Hexachlorobutadiene	ND	1420	960	67		980	69		40-140	2		50
Hexachlorocyclopentadiene	ND	1420	690	48		680	48		40-140	1		50
Hexachloroethane	ND	1420	1200	84		1200	85		40-140	0		50
Isophorone	ND	1420	1200	84		1200	85		40-140	0		50
Naphthalene	ND	1420	1100	77		1000	70		40-140	10		50
Nitrobenzene	ND	1420	1300	91		1200	85		40-140	8		50
NDPA/DPA	ND	1420	1100	77		1100	77		36-157	0		50
n-Nitrosodi-n-propylamine	ND	1420	1200	84		1200	85		32-121	0		50
Bis(2-ethylhexyl)phthalate	ND	1420	1500	110		1400	99		40-140	7		50
Butyl benzyl phthalate	ND	1420	1200	84		1200	85		40-140	0		50
Di-n-butylphthalate	ND	1420	1400	98		1300	92		40-140	7		50

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

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 QC Batch ID: WG1217771-4 WG1217771-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Di-n-octylphthalate	ND	1420	1800	130		1600	110		40-140	12		50
Diethyl phthalate	ND	1420	1300	91		1200	85		40-140	8		50
Dimethyl phthalate	ND	1420	1100	77		1000	70		40-140	10		50
Benzo(a)anthracene	ND	1420	1200	84		1100	77		40-140	9		50
Benzo(a)pyrene	ND	1420	1200	84		1200	85		40-140	0		50
Benzo(b)fluoranthene	ND	1420	1200	84		1200	85		40-140	0		50
Benzo(k)fluoranthene	ND	1420	1200	84		1100	77		40-140	9		50
Chrysene	ND	1420	1200	84		1100	77		40-140	9		50
Acenaphthylene	ND	1420	1100	77		1000	70		40-140	10		50
Anthracene	ND	1420	1100	77		1000	70		40-140	10		50
Benzo(ghi)perylene	ND	1420	1000	70		1000	70		40-140	0		50
Fluorene	ND	1420	1100	77		1100	77		40-140	0		50
Phenanthrene	ND	1420	1000	70		1000	70		40-140	0		50
Dibenzo(a,h)anthracene	ND	1420	1100	77		980	69		40-140	12		50
Indeno(1,2,3-cd)pyrene	ND	1420	1100	77		1000	70		40-140	10		50
Pyrene	ND	1420	1100	77		1000	70		35-142	10		50
Biphenyl	ND	1420	1100	77		1100	77		54-104	0		50
4-Chloroaniline	ND	1420	1300	91		1300	92		40-140	0		50
2-Nitroaniline	ND	1420	1300	91		1200	85		47-134	8		50
3-Nitroaniline	ND	1420	1000	70		1000	70		26-129	0		50
4-Nitroaniline	ND	1420	1200	84		1200	85		41-125	0		50
Dibenzofuran	ND	1420	1100	77		1100	77		40-140	0		50
2-Methylnaphthalene	ND	1420	1100	77		1000	70		40-140	10		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

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 QC Batch ID: WG1217771-4 WG1217771-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												
1,2,4,5-Tetrachlorobenzene	ND	1420	1000	70		1000	70		40-117	0		50
Acetophenone	ND	1420	1200	84		1200	85		14-144	0		50
2,4,6-Trichlorophenol	ND	1420	1200	84		1000	70		30-130	18		50
p-Chloro-m-cresol	ND	1420	1300	91		1200	85		26-103	8		50
2-Chlorophenol	ND	1420	1200	84		1200	85		25-102	0		50
2,4-Dichlorophenol	ND	1420	1300	91		1100	77		30-130	17		50
2,4-Dimethylphenol	ND	1420	1200	84		1100	77		30-130	9		50
2-Nitrophenol	ND	1420	1400	98		1300	92		30-130	7		50
4-Nitrophenol	ND	1420	1400	98		1400	99		11-114	0		50
2,4-Dinitrophenol	ND	1420	440J	31		360J	25		4-130	20		50
4,6-Dinitro-o-cresol	ND	1420	1100	77		1100	77		10-130	0		50
Pentachlorophenol	ND	1420	980	69		920	65		17-109	6		50
Phenol	ND	1420	1200	84		1100	77		26-90	9		50
2-Methylphenol	ND	1420	1200	84		1200	85		30-130.	0		50
3-Methylphenol/4-Methylphenol	ND	1420	1300	91		1200	85		30-130	8		50
2,4,5-Trichlorophenol	ND	1420	1200	84		1100	77		30-130	9		50
Carbazole	ND	1420	1100	77		1100	77		54-128	0		50
Atrazine	ND	1420	1200	84		1100	77		40-140	9		50
Benzaldehyde	ND	1420	1100	77		1100	77		40-140	0		50
Caprolactam	ND	1420	1600	110		1600	110		15-130	0		50
2,3,4,6-Tetrachlorophenol	ND	1420	1200	84		1100	77		40-140	9		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19

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 QC Batch ID: WG1217771-4 WG1217771-5 QC Sample: L1910554-01 Client ID: RISB1_10-12

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	96		90		10-136
2-Fluorobiphenyl	71		67		30-120
2-Fluorophenol	86		82		25-120
4-Terphenyl-d14	74		65		18-120
Nitrobenzene-d5	89		82		23-120
Phenol-d6	83		79		10-120

PCBS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

SAMPLE RESULTS

Lab ID: L1910554-01
Client ID: RISB1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 14:15
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/22/19 23:55
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:15
Cleanup Method: EPA 3665A
Cleanup Date: 03/22/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	3.12	1	A
Aroclor 1221	ND		ug/kg	35.1	3.52	1	A
Aroclor 1232	ND		ug/kg	35.1	7.45	1	A
Aroclor 1242	ND		ug/kg	35.1	4.74	1	A
Aroclor 1248	ND		ug/kg	35.1	5.27	1	A
Aroclor 1254	ND		ug/kg	35.1	3.84	1	A
Aroclor 1260	ND		ug/kg	35.1	6.49	1	A
Aroclor 1262	ND		ug/kg	35.1	4.46	1	A
Aroclor 1268	ND		ug/kg	35.1	3.64	1	A
PCBs, Total	ND		ug/kg	35.1	3.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/23/19 00:34
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:15
Cleanup Method: EPA 3665A
Cleanup Date: 03/22/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1217772-1						
Aroclor 1016	ND		ug/kg	31.6	2.80	A
Aroclor 1221	ND		ug/kg	31.6	3.16	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	77		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217772-2 WG1217772-3									
Aroclor 1016	74		73		40-140	1		50	A
Aroclor 1260	69		69		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	A
Decachlorobiphenyl	69		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	B
Decachlorobiphenyl	73		72		30-150	B

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19

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 QC Batch ID: WG1217772-4 WG1217772-5 QC Sample: L1910554-01 Client ID: RISB1_10-12													
Aroclor 1016	ND	223	160	72		162	75		40-140	1		50	A
Aroclor 1260	ND	223	158	71		156	72		40-140	1		50	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		63		30-150	A
Decachlorobiphenyl	71		70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		65		30-150	B
Decachlorobiphenyl	75		74		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

SAMPLE RESULTS

Lab ID: L1910554-01
Client ID: RISB1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 14:15
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/21/19 13:11
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:18
Cleanup Method: EPA 3620B
Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.319	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.650	1	A
Heptachlor	ND		ug/kg	0.858	0.384	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.965	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.750	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.405	1	A
Endosulfan II	ND		ug/kg	1.72	0.573	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.00	1	A
cis-Chlordane	ND		ug/kg	2.14	0.597	1	A
trans-Chlordane	ND		ug/kg	2.14	0.566	1	A
Chlordane	ND		ug/kg	13.9	5.68	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS**

Lab ID: L1910554-01

Date Collected: 03/18/19 14:15

Client ID: RISB1_10-12

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/21/19 12:36
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 19:18
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1217773-1						
Delta-BHC	ND		ug/kg	1.51	0.296	A
Lindane	ND		ug/kg	0.630	0.282	A
Alpha-BHC	ND		ug/kg	0.630	0.179	A
Beta-BHC	ND		ug/kg	1.51	0.573	A
Heptachlor	ND		ug/kg	0.756	0.339	A
Aldrin	ND		ug/kg	1.51	0.532	A
Heptachlor epoxide	ND		ug/kg	2.84	0.851	A
Endrin	ND		ug/kg	0.630	0.258	A
Endrin aldehyde	ND		ug/kg	1.89	0.662	A
Endrin ketone	ND		ug/kg	1.51	0.389	A
Dieldrin	ND		ug/kg	0.945	0.472	A
4,4'-DDE	ND		ug/kg	1.51	0.350	A
4,4'-DDD	ND		ug/kg	1.51	0.539	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.51	0.357	A
Endosulfan II	ND		ug/kg	1.51	0.505	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.882	A
Toxaphene	ND		ug/kg	28.4	7.94	A
cis-Chlordane	ND		ug/kg	1.89	0.527	A
trans-Chlordane	ND		ug/kg	1.89	0.499	A
Chlordane	ND		ug/kg	12.3	5.01	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/21/19 12:36
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/20/19 19:18
Cleanup Method: EPA 3620B
Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1217773-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217773-2 WG1217773-3									
Delta-BHC	101		108		30-150	7		30	A
Lindane	104		109		30-150	5		30	A
Alpha-BHC	112		118		30-150	5		30	A
Beta-BHC	92		98		30-150	6		30	A
Heptachlor	110		115		30-150	4		30	A
Aldrin	96		108		30-150	12		30	A
Heptachlor epoxide	88		96		30-150	9		30	A
Endrin	108		117		30-150	8		30	A
Endrin aldehyde	87		97		30-150	11		30	A
Endrin ketone	111		122		30-150	9		30	A
Dieldrin	109		120		30-150	10		30	A
4,4'-DDE	97		109		30-150	12		30	A
4,4'-DDD	109		118		30-150	8		30	A
4,4'-DDT	111		121		30-150	9		30	A
Endosulfan I	92		103		30-150	11		30	A
Endosulfan II	102		112		30-150	9		30	A
Endosulfan sulfate	95		111		30-150	16		30	A
Methoxychlor	97		101		30-150	4		30	A
cis-Chlordane	74		89		30-150	18		30	A
trans-Chlordane	95		86		30-150	10		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217773-2 WG1217773-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		86		30-150	B
Decachlorobiphenyl	91		91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		89		30-150	A
Decachlorobiphenyl	112		110		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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 RISB1_10-12 Associated sample(s): 01 QC Batch ID: WG1217773-4 WG1217773-5 QC Sample: L1910554-01 Client ID:													
Delta-BHC	ND	35	35.5	102		36.0	105		30-150	1		50	A
Lindane	ND	35	36.0	103		35.2	103		30-150	2		50	A
Alpha-BHC	ND	35	38.6	110		37.9	111		30-150	2		50	A
Beta-BHC	ND	35	32.1	92		31.1	91		30-150	3		50	A
Heptachlor	ND	35	37.1	106		36.7	107		30-150	1		50	A
Aldrin	ND	35	34.4	98		32.5	95		30-150	6		50	A
Heptachlor epoxide	ND	35	30.7	88		29.7	87		30-150	3		50	A
Endrin	ND	35	37.4	107		36.4	106		30-150	3		50	A
Endrin aldehyde	ND	35	31.6	90		31.6	92		30-150	0		50	A
Endrin ketone	ND	35	39.4	113		39.5	115		30-150	0		50	A
Dieldrin	ND	35	38.5	110		36.8	107		30-150	5		50	A
4,4'-DDE	ND	35	34.5	99		32.0	93		30-150	8		50	A
4,4'-DDD	ND	35	37.1	106		36.7	107		30-150	1		50	A
4,4'-DDT	ND	35	38.4	110		37.3	109		30-150	3		50	A
Endosulfan I	ND	35	32.6	93		31.3	91		30-150	4		50	A
Endosulfan II	ND	35	36.1	103		35.2	103		30-150	3		50	A
Endosulfan sulfate	ND	35	34.6	99		33.9	99		30-150	2		50	A
Methoxychlor	ND	35	33.0	94		33.9	99		30-150	3		50	A
cis-Chlordane	ND	35	27.1	78		26.2	76		30-150	3		50	A
trans-Chlordane	ND	35	31.4	90		29.9	87		30-150	5		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19

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 QC Batch ID: WG1217773-4 WG1217773-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	91		89		30-150	B
Decachlorobiphenyl	94		92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		90		30-150	A
Decachlorobiphenyl	115		106		30-150	A

METALS

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1910554**Project Number:** 16.6334**Report Date:** 03/25/19**SAMPLE RESULTS**

Lab ID: L1910554-01

Date Collected: 03/18/19 14:15

Client ID: RISB1_10-12

Date Received: 03/18/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3070		mg/kg	8.55	2.31	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.27	0.325	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Arsenic, Total	1.39		mg/kg	0.855	0.178	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Barium, Total	9.82		mg/kg	0.855	0.149	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Beryllium, Total	0.214	J	mg/kg	0.427	0.028	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.855	0.084	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Calcium, Total	899		mg/kg	8.55	2.99	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Chromium, Total	3.97		mg/kg	0.855	0.082	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Cobalt, Total	3.29		mg/kg	1.71	0.142	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Copper, Total	9.65		mg/kg	0.855	0.220	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Iron, Total	8960		mg/kg	4.27	0.772	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Lead, Total	3.44	J	mg/kg	4.27	0.229	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Magnesium, Total	1220		mg/kg	8.55	1.32	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Manganese, Total	241		mg/kg	0.855	0.136	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.075	0.016	1	03/20/19 19:02	03/21/19 12:06	EPA 7471B	1,7471B	GD
Nickel, Total	7.22		mg/kg	2.14	0.207	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Potassium, Total	251		mg/kg	214	12.3	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.71	0.220	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.855	0.242	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Sodium, Total	28.6	J	mg/kg	171	2.69	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.71	0.269	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Vanadium, Total	8.34		mg/kg	0.855	0.174	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC
Zinc, Total	22.9		mg/kg	4.27	0.250	2	03/19/19 20:15	03/21/19 14:32	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910554

Project Number: 16.6334

Report Date: 03/25/19

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 Batch: WG1217319-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Iron, Total	1.72	J	mg/kg	2.00	0.361	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Manganese, Total	0.100	J	mg/kg	0.400	0.064	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Sodium, Total	2.96	J	mg/kg	80.0	1.26	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/19/19 20:15	03/21/19 14:16	1,6010D	LC

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 Batch: WG1217719-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/20/19 19:02	03/21/19 11:53	1,7471B	GD



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910554

Project Number: 16.6334

Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217319-2 SRM Lot Number: D101-540								
Aluminum, Total	64		-		50-151	-		
Antimony, Total	135		-		3-196	-		
Arsenic, Total	108		-		83-117	-		
Barium, Total	92		-		83-118	-		
Beryllium, Total	99		-		83-117	-		
Cadmium, Total	104		-		83-117	-		
Calcium, Total	88		-		81-119	-		
Chromium, Total	98		-		81-118	-		
Cobalt, Total	107		-		84-116	-		
Copper, Total	97		-		83-116	-		
Iron, Total	84		-		62-138	-		
Lead, Total	103		-		83-117	-		
Magnesium, Total	86		-		76-124	-		
Manganese, Total	92		-		82-118	-		
Nickel, Total	106		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	109		-		79-121	-		
Silver, Total	99		-		80-120	-		
Sodium, Total	92		-		72-127	-		
Thallium, Total	108		-		81-119	-		
Vanadium, Total	95		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217319-2 SRM Lot Number: D101-540					
Zinc, Total	106	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217719-2 SRM Lot Number: D101-540					
Mercury, Total	93	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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 QC Batch ID: WG1217319-3 WG1217319-4 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Aluminum, Total	3070	168	3510	261	Q	3480	247	Q	75-125	1		20
Antimony, Total	ND	42.1	36.6	87		35.6	86		75-125	3		20
Arsenic, Total	1.39	10.1	11.3	98		11.4	101		75-125	1		20
Barium, Total	9.82	168	168	94		165	94		75-125	2		20
Beryllium, Total	0.214J	4.21	4.12	98		4.15	100		75-125	1		20
Cadmium, Total	ND	4.29	3.79	88		3.79	90		75-125	0		20
Calcium, Total	899	842	1760	102		1720	99		75-125	2		20
Chromium, Total	3.97	16.8	19.7	93		19.4	93		75-125	2		20
Cobalt, Total	3.29	42.1	41.6	91		41.5	92		75-125	0		20
Copper, Total	9.65	21	28.0	87		27.8	88		75-125	1		20
Iron, Total	8960	84.2	9410	535	Q	9060	121		75-125	4		20
Lead, Total	3.44J	42.9	44.3	103		43.8	104		75-125	1		20
Magnesium, Total	1220	842	2050	99		2050	100		75-125	0		20
Manganese, Total	241	42.1	316	178	Q	290	118		75-125	9		20
Nickel, Total	7.22	42.1	45.5	91		45.4	92		75-125	0		20
Potassium, Total	251	842	1070	97		1060	98		75-125	1		20
Selenium, Total	ND	10.1	10.2	101		10.3	104		75-125	1		20
Silver, Total	ND	25.2	23.6	93		23.7	95		75-125	0		20
Sodium, Total	28.6J	842	860	102		852	103		75-125	1		20
Thallium, Total	ND	10.1	9.48	94		9.37	94		75-125	1		20
Vanadium, Total	8.34	42.1	47.5	93		47.4	94		75-125	0		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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			QC Batch ID: WG1217319-3		WG1217319-4	QC Sample: L1910554-01		Client ID: RISB1_10-12			
Zinc, Total	22.9	42.1	64.7	99	62.5	96	75-125	3	20		
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG1217719-3		WG1217719-4	QC Sample: L1910539-02		Client ID: MS Sample			
Mercury, Total	ND	0.234	0.163	70	Q	0.138	70	Q	80-120	17	20
Total Metals - Mansfield Lab Associated sample(s): 01			QC Batch ID: WG1217719-7		WG1217719-8	QC Sample: L1910554-01		Client ID: RISB1_10-12			
Mercury, Total	ND	0.154	0.091	59	Q	0.089	60	Q	80-120	3	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

SAMPLE RESULTS

Lab ID: L1910554-01
Client ID: RISB1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/18/19 14:15
Date Received: 03/18/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	03/19/19 12:23	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/19/19 14:20	03/20/19 11:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.875	0.175	1	03/19/19 09:15	03/19/19 15:32	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1910554

Project Number: 16.6334

Report Date: 03/25/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1217067-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/19/19 09:15	03/19/19 15:32	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1217136-1										
Cyanide, Total	ND		mg/kg	0.93	0.20	1	03/19/19 14:20	03/20/19 11:22	1,9010C/9012B	LH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910554**Report Date:** 03/25/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1217067-2								
Chromium, Hexavalent	90		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1217136-2 WG1217136-3								
Cyanide, Total	53	Q	60	Q	80-120	8		35

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217067-4 WG1217067-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Chromium, Hexavalent	ND	1000	995	99		1080	100		75-125	8		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217136-4 WG1217136-5 QC Sample: L1910554-01 Client ID: RISB1_10-12												
Cyanide, Total	ND	10	6.9	67	Q	9.8	91		75-125	35		35

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1910554

Report Date: 03/25/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217067-7 QC Sample: L1910554-01 Client ID: RISB1_10-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217160-1 QC Sample: L1910554-01 Client ID: RISB1_10-12						
Solids, Total	91.4	91.4	%	0		20

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No:03251915:46
Lab Number: L1910554
Report Date: 03/25/19

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(*)
L1910554-01A	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910554-01A1	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910554-01A2	Vial MeOH preserved	A	NA		3.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910554-01B	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01B1	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01B2	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01C	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01C1	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01C2	Vial water preserved	A	NA		3.2	Y	Absent	19-MAR-19 03:38	NYTCL-8260HLW-R2(14)
L1910554-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.2	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)
L1910554-01D1	Glass 60mL/2oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910554-01E	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910554-01E1	Glass 120ml/4oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910554-01F	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910554-01F1	Glass 250ml/8oz unpreserved	A	NA		3.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1910554
Report Date: 03/25/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/19/19		ALPHA Job # L1910554													
		Project Information Project Name: <u>Hamilton Hill II, TAL Site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16-6334</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other				Billing Information ☐ Same as Client Info PO #											
		Client Information Client: <u>IT Male Associates</u> Address: <u>50 Century Hill Drive</u> <u>Latham NY 12110</u> Phone: <u>518-786-7400</u> Fax: <u>A.smith@ctmale.com</u> Email: <u>K.moline@ctmale.com</u>				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge				Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:											
Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hours</u> (24)				ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>TCL Vol</th> <th>TCL SVOL</th> <th>TCL PCB</th> <th>TCL Pest</th> <th>TAL Metals</th> <th>Including Mercury, Hexachloro, Cyanide</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>						TCL Vol	TCL SVOL	TCL PCB	TCL Pest	TAL Metals	Including Mercury, Hexachloro, Cyanide	X	X	X	X	X	X
TCL Vol	TCL SVOL	TCL PCB	TCL Pest							TAL Metals	Including Mercury, Hexachloro, Cyanide										
X	X	X	X							X	X										
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Please specify Metals or TAL.																					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)		Total Bottle									
10554 - 01		RISB1-10-12		3/18/19 1415		Soil		DA		Standard TAT											
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type VA A A A A A		Preservative F A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)											
Relinquished By:		Date/Time		Received By:		Date/Time															
[Signature]		3/18/19 1630		[Signature]		3/19/19 0050															



ANALYTICAL REPORT

Lab Number:	L1910852
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II TA1 SITE
Project Number:	16.6334
Report Date:	03/26/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910852-01	RIMW1_10-12	SOIL	SCHENECTADY, NY	03/19/19 09:15	03/19/19

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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.

Total Metals

L1910852-01: 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.

Cyanide, Total

The WG1217630-2 LCS recovery (64%), associated with L1910852-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 03/26/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910852-01
 Client ID: RIMW1_10-12
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/24/19 17:51
 Analyst: JC
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910852-01
 Client ID: RIMW1_10-12
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
1,4-Dioxane	ND		ug/kg	91	40.	1
Freon-113	ND		ug/kg	4.5	0.79	1
Methyl cyclohexane	ND		ug/kg	4.5	0.68	1

Tentatively Identified Compounds

Total TIC Compounds	10.5	J	ug/kg	1
Unknown	5.05	J	ug/kg	1
Unknown Cycloalkane	5.49	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	101		70-130



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219079-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.77	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219079-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.31	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	2.86	J	ug/kg
Unknown	2.86	J	ug/kg

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1219079-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219079-3 WG1219079-4								
Methylene chloride	80		78		70-130	3		30
1,1-Dichloroethane	90		88		70-130	2		30
Chloroform	89		87		70-130	2		30
Carbon tetrachloride	88		85		70-130	3		30
1,2-Dichloropropane	89		87		70-130	2		30
Dibromochloromethane	87		85		70-130	2		30
1,1,2-Trichloroethane	89		88		70-130	1		30
Tetrachloroethene	77		74		70-130	4		30
Chlorobenzene	81		79		70-130	3		30
Trichlorofluoromethane	91		89		70-139	2		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	86		84		70-130	2		30
Bromodichloromethane	89		88		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	85		84		70-130	1		30
Bromoform	87		85		70-130	2		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
Benzene	83		80		70-130	4		30
Toluene	84		82		70-130	2		30
Ethylbenzene	85		83		70-130	2		30
Chloromethane	94		91		52-130	3		30
Bromomethane	101		101		57-147	0		30
Vinyl chloride	83		81		67-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219079-3 WG1219079-4								
Chloroethane	92		86		50-151	7		30
1,1-Dichloroethene	79		76		65-135	4		30
trans-1,2-Dichloroethene	79		78		70-130	1		30
Trichloroethene	81		79		70-130	3		30
1,2-Dichlorobenzene	84		83		70-130	1		30
1,3-Dichlorobenzene	83		82		70-130	1		30
1,4-Dichlorobenzene	82		81		70-130	1		30
Methyl tert butyl ether	90		88		66-130	2		30
p/m-Xylene	82		80		70-130	2		30
o-Xylene	82		80		70-130	2		30
cis-1,2-Dichloroethene	80		80		70-130	0		30
Styrene	82		81		70-130	1		30
Dichlorodifluoromethane	80		80		30-146	0		30
Acetone	115		115		54-140	0		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	110		112		70-130	2		30
4-Methyl-2-pentanone	99		102		70-130	3		30
2-Hexanone	110		108		70-130	2		30
Bromochloromethane	81		80		70-130	1		30
1,2-Dibromoethane	88		85		70-130	3		30
1,2-Dibromo-3-chloropropane	91		88		68-130	3		30
Isopropylbenzene	87		85		70-130	2		30
1,2,3-Trichlorobenzene	83		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1219079-3 WG1219079-4								
1,2,4-Trichlorobenzene	81		80		70-130	1		30
Methyl Acetate	106		106		51-146	0		30
Cyclohexane	87		84		59-142	4		30
1,4-Dioxane	102		104		65-136	2		30
Freon-113	82		80		50-139	2		30
Methyl cyclohexane	78		76		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	99		101		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910852-01
Client ID: RIMW1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/23/19 04:51
Analyst: RC
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/22/19 00:53

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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910852-01**Date Collected:** 03/19/19 09:15**Client ID:** RIMW1_10-12**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	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	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

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910852-01
Client ID: RIMW1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	597	J	ug/kg			1
Unknown Amide	597	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	102		30-120
2,4,6-Tribromophenol	131		10-136
4-Terphenyl-d14	105		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	98		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
Acenaphthene	89		95		31-137	7		50
Hexachlorobenzene	101		109		40-140	8		50
Bis(2-chloroethyl)ether	76		80		40-140	5		50
2-Chloronaphthalene	87		94		40-140	8		50
3,3'-Dichlorobenzidine	64		64		40-140	0		50
2,4-Dinitrotoluene	97		107		40-132	10		50
2,6-Dinitrotoluene	98		108		40-140	10		50
Fluoranthene	87		95		40-140	9		50
4-Chlorophenyl phenyl ether	90		98		40-140	9		50
4-Bromophenyl phenyl ether	95		102		40-140	7		50
Bis(2-chloroisopropyl)ether	69		74		40-140	7		50
Bis(2-chloroethoxy)methane	83		90		40-117	8		50
Hexachlorobutadiene	73		79		40-140	8		50
Hexachlorocyclopentadiene	78		84		40-140	7		50
Hexachloroethane	76		81		40-140	6		50
Isophorone	82		89		40-140	8		50
Naphthalene	80		85		40-140	6		50
Nitrobenzene	83		90		40-140	8		50
NDPA/DPA	97		107		36-157	10		50
n-Nitrosodi-n-propylamine	80		85		32-121	6		50
Bis(2-ethylhexyl)phthalate	104		112		40-140	7		50
Butyl benzyl phthalate	95		102		40-140	7		50
Di-n-butylphthalate	92		96		40-140	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
Di-n-octylphthalate	104		115		40-140	10		50
Diethyl phthalate	96		106		40-140	10		50
Dimethyl phthalate	94		103		40-140	9		50
Benzo(a)anthracene	93		100		40-140	7		50
Benzo(a)pyrene	107		118		40-140	10		50
Benzo(b)fluoranthene	102		116		40-140	13		50
Benzo(k)fluoranthene	103		111		40-140	7		50
Chrysene	93		100		40-140	7		50
Acenaphthylene	92		99		40-140	7		50
Anthracene	84		90		40-140	7		50
Benzo(ghi)perylene	92		100		40-140	8		50
Fluorene	94		102		40-140	8		50
Phenanthrene	82		89		40-140	8		50
Dibenzo(a,h)anthracene	90		99		40-140	10		50
Indeno(1,2,3-cd)pyrene	91		101		40-140	10		50
Pyrene	87		95		35-142	9		50
Biphenyl	91		99		54-104	8		50
4-Chloroaniline	40		39	Q	40-140	3		50
2-Nitroaniline	107		118		47-134	10		50
3-Nitroaniline	78		77		26-129	1		50
4-Nitroaniline	114		125		41-125	9		50
Dibenzofuran	91		98		40-140	7		50
2-Methylnaphthalene	83		89		40-140	7		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
1,2,4,5-Tetrachlorobenzene	86		94		40-117	9		50
Acetophenone	81		87		14-144	7		50
2,4,6-Trichlorophenol	93		101		30-130	8		50
p-Chloro-m-cresol	95		105	Q	26-103	10		50
2-Chlorophenol	85		91		25-102	7		50
2,4-Dichlorophenol	94		101		30-130	7		50
2,4-Dimethylphenol	94		102		30-130	8		50
2-Nitrophenol	105		114		30-130	8		50
4-Nitrophenol	112		124	Q	11-114	10		50
2,4-Dinitrophenol	95		110		4-130	15		50
4,6-Dinitro-o-cresol	120		132	Q	10-130	10		50
Pentachlorophenol	98		110	Q	17-109	12		50
Phenol	82		88		26-90	7		50
2-Methylphenol	89		94		30-130.	5		50
3-Methylphenol/4-Methylphenol	90		96		30-130	6		50
2,4,5-Trichlorophenol	98		107		30-130	9		50
Carbazole	89		94		54-128	5		50
Atrazine	106		118		40-140	11		50
Benzaldehyde	71		73		40-140	3		50
Caprolactam	97		107		15-130	10		50
2,3,4,6-Tetrachlorophenol	93		103		40-140	10		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		88		25-120
Phenol-d6	79		84		10-120
Nitrobenzene-d5	85		90		23-120
2-Fluorobiphenyl	84		91		30-120
2,4,6-Tribromophenol	112		120		10-136
4-Terphenyl-d14	87		93		18-120

PCBS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910852-01
Client ID: RIMW1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/25/19 15:04
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/22/19 00:57
Cleanup Method: EPA 3665A
Cleanup Date: 03/22/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	2.99	1	A
Aroclor 1221	ND		ug/kg	33.7	3.38	1	A
Aroclor 1232	ND		ug/kg	33.7	7.14	1	A
Aroclor 1242	ND		ug/kg	33.7	4.54	1	A
Aroclor 1248	ND		ug/kg	33.7	5.05	1	A
Aroclor 1254	ND		ug/kg	33.7	3.68	1	A
Aroclor 1260	ND		ug/kg	33.7	6.22	1	A
Aroclor 1262	ND		ug/kg	33.7	4.28	1	A
Aroclor 1268	ND		ug/kg	33.7	3.49	1	A
PCBs, Total	ND		ug/kg	33.7	2.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/22/19 00:11
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/21/19 07:47
Cleanup Method: EPA 3665A
Cleanup Date: 03/21/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1217887-1						
Aroclor 1016	ND		ug/kg	33.1	2.94	A
Aroclor 1221	ND		ug/kg	33.1	3.31	A
Aroclor 1232	ND		ug/kg	33.1	7.01	A
Aroclor 1242	ND		ug/kg	33.1	4.46	A
Aroclor 1248	ND		ug/kg	33.1	4.96	A
Aroclor 1254	ND		ug/kg	33.1	3.62	A
Aroclor 1260	ND		ug/kg	33.1	6.11	A
Aroclor 1262	ND		ug/kg	33.1	4.20	A
Aroclor 1268	ND		ug/kg	33.1	3.42	A
PCBs, Total	ND		ug/kg	33.1	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	113		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217887-2 WG1217887-3									
Aroclor 1016	76		79		40-140	4		50	A
Aroclor 1260	83		87		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		100		30-150	A
Decachlorobiphenyl	96		104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		99		30-150	B
Decachlorobiphenyl	108		112		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910852-01
Client ID: RIMW1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/23/19 15:09
Analyst: SL
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/22/19 00:05
Cleanup Method: EPA 3620B
Cleanup Date: 03/23/19

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	0.301	1	A
Alpha-BHC	ND		ug/kg	0.674	0.191	1	A
Beta-BHC	ND		ug/kg	1.62	0.613	1	A
Heptachlor	ND		ug/kg	0.809	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.570	1	A
Heptachlor epoxide	ND		ug/kg	3.03	0.910	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	0.416	1	A
Dieldrin	ND		ug/kg	1.01	0.506	1	A
4,4'-DDE	ND		ug/kg	1.62	0.374	1	A
4,4'-DDD	ND		ug/kg	1.62	0.577	1	A
4,4'-DDT	ND		ug/kg	3.03	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	3.03	0.944	1	A
Toxaphene	ND		ug/kg	30.3	8.49	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	13.1	5.36	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910852-01

Date Collected: 03/19/19 09:15

Client ID: RIMW1_10-12

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	B
Decachlorobiphenyl	54		30-150	B
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/22/19 10:11
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:10
Cleanup Method: EPA 3620B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1217907-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.679	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.905	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/22/19 10:11
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1217907-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	88		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217907-2 WG1217907-3									
Delta-BHC	75		64		30-150	16		30	A
Lindane	71		64		30-150	10		30	A
Alpha-BHC	75		68		30-150	10		30	A
Beta-BHC	67		62		30-150	8		30	A
Heptachlor	70		61		30-150	14		30	A
Aldrin	69		58		30-150	17		30	A
Heptachlor epoxide	69		59		30-150	16		30	A
Endrin	70		58		30-150	19		30	A
Endrin aldehyde	60		43		30-150	33	Q	30	A
Endrin ketone	61		47		30-150	26		30	A
Dieldrin	73		59		30-150	21		30	A
4,4'-DDE	67		53		30-150	23		30	A
4,4'-DDD	66		52		30-150	24		30	A
4,4'-DDT	73		57		30-150	25		30	A
Endosulfan I	64		52		30-150	21		30	A
Endosulfan II	64		51		30-150	23		30	A
Endosulfan sulfate	44		34		30-150	26		30	A
Methoxychlor	65		49		30-150	28		30	A
cis-Chlordane	62		49		30-150	23		30	A
trans-Chlordane	64		46		30-150	33	Q	30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1217907-2 WG1217907-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	68		55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		63		30-150	A
Decachlorobiphenyl	78		62		30-150	A

METALS

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910852-01

Date Collected: 03/19/19 09:15

Client ID: RIMW1_10-12

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2700		mg/kg	8.37	2.26	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Antimony, Total	ND		mg/kg	4.19	0.318	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Arsenic, Total	1.63		mg/kg	0.837	0.174	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Barium, Total	11.4		mg/kg	0.837	0.146	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Beryllium, Total	0.151	J	mg/kg	0.419	0.028	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.837	0.082	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Calcium, Total	34500		mg/kg	8.37	2.93	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Chromium, Total	3.93		mg/kg	0.837	0.080	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Cobalt, Total	2.59		mg/kg	1.67	0.139	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Copper, Total	7.89		mg/kg	0.837	0.216	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Iron, Total	7460		mg/kg	4.19	0.756	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Lead, Total	2.44	J	mg/kg	4.19	0.224	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Magnesium, Total	2070		mg/kg	8.37	1.29	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Manganese, Total	166		mg/kg	0.837	0.133	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.066	0.014	1	03/21/19 08:20	03/21/19 16:02	EPA 7471B	1,7471B	GD
Nickel, Total	6.24		mg/kg	2.09	0.203	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Potassium, Total	338		mg/kg	209	12.0	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.67	0.216	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.837	0.237	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Sodium, Total	50.8	J	mg/kg	167	2.64	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.67	0.264	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Vanadium, Total	7.26		mg/kg	0.837	0.170	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC
Zinc, Total	18.3		mg/kg	4.19	0.245	2	03/21/19 23:00	03/22/19 01:27	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910852

Project Number: 16.6334

Report Date: 03/26/19

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 Batch: WG1217901-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/21/19 08:20	03/21/19 12:29	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1218296-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Arsenic, Total	0.092	J	mg/kg	0.400	0.083	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Iron, Total	0.816	J	mg/kg	2.00	0.361	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Sodium, Total	5.72	J	mg/kg	80.0	1.26	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/21/19 23:00	03/22/19 01:08	1,6010D	MC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910852

Project Number: 16.6334

Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217901-2 SRM Lot Number: D101-540								
Mercury, Total	89		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1218296-2 SRM Lot Number: D101-540					
Aluminum, Total	64	-	50-151	-	
Antimony, Total	153	-	3-196	-	
Arsenic, Total	89	-	83-117	-	
Barium, Total	87	-	83-118	-	
Beryllium, Total	88	-	83-117	-	
Cadmium, Total	89	-	83-117	-	
Calcium, Total	83	-	81-119	-	
Chromium, Total	86	-	81-118	-	
Cobalt, Total	90	-	84-116	-	
Copper, Total	87	-	83-116	-	
Iron, Total	79	-	62-138	-	
Lead, Total	96	-	83-117	-	
Magnesium, Total	78	-	76-124	-	
Manganese, Total	104	-	82-118	-	
Nickel, Total	86	-	82-117	-	
Potassium, Total	79	-	71-130	-	
Selenium, Total	90	-	79-121	-	
Silver, Total	86	-	80-120	-	
Sodium, Total	102	-	72-127	-	
Thallium, Total	89	-	81-119	-	
Vanadium, Total	86	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910852**Report Date:** 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1218296-2 SRM Lot Number: D101-540					
Zinc, Total	88	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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 QC Batch ID: WG1217901-3 QC Sample: L1909913-01 Client ID: MS Sample												
Mercury, Total	ND	0.133	0.147	110		-	-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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 QC Batch ID: WG1218296-3 QC Sample: L1911148-01 Client ID: MS Sample									
Aluminum, Total	18700	217	23900	1430	Q	-	75-125	-	20
Antimony, Total	ND	54.3	38.4	71	Q	-	75-125	-	20
Arsenic, Total	ND	13	7.06J	54	Q	-	75-125	-	20
Barium, Total	8.13	217	208	92		-	75-125	-	20
Beryllium, Total	0.161J	5.43	5.02	92		-	75-125	-	20
Cadmium, Total	0.546	5.54	5.30	86		-	75-125	-	20
Calcium, Total	53.4	1080	1030	95		-	75-125	-	20
Chromium, Total	116	21.7	124	37	Q	-	75-125	-	20
Cobalt, Total	5.29	54.3	50.2	92		-	75-125	-	20
Copper, Total	29.3	27.1	56.1	114		-	75-125	-	20
Iron, Total	77900	108	78400	0	Q	-	75-125	-	20
Lead, Total	12.9	55.4	58.6	82		-	75-125	-	20
Magnesium, Total	60.0	1080	923	85		-	75-125	-	20
Manganese, Total	204	54.3	262	40	Q	-	75-125	-	20
Nickel, Total	9.21	54.3	52.6	97		-	75-125	-	20
Potassium, Total	85.3J	1080	1080	99		-	75-125	-	20
Selenium, Total	0.471J	13	10.2	78		-	75-125	-	20
Silver, Total	ND	32.6	30.9	95		-	75-125	-	20
Sodium, Total	7.90J	1080	1040	96		-	75-125	-	20
Thallium, Total	ND	13	7.36	56	Q	-	75-125	-	20
Vanadium, Total	266	54.3	314	98		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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 QC Batch ID: WG1218296-3 QC Sample: L1911148-01 Client ID: MS Sample									
Zinc, Total	23.4	54.3	71.2	131	Q	-	-	75-125	- 20

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1910852
Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1217901-4 QC Sample: L1909913-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1218296-4 QC Sample: L1911148-01 Client ID: DUP Sample						
Barium, Total	8.13	7.97	mg/kg	2		20
Cadmium, Total	0.546	0.436J	mg/kg	NC		20
Chromium, Total	116	95.9	mg/kg	19		20
Lead, Total	12.9	12.2	mg/kg	6		20
Selenium, Total	0.471J	0.334J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1218296-4 QC Sample: L1911148-01 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910852-01
Client ID: RIMW1_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 09:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	03/20/19 10:51	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/20/19 15:35	03/21/19 13:10	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.838	0.168	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910852

Project Number: 16.6334

Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1217529-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1217630-1										
Cyanide, Total	ND		mg/kg	0.89	0.19	1	03/20/19 15:35	03/21/19 12:32	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910852

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1217529-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1217630-2 WG1217630-3								
Cyanide, Total	64	Q	82		80-120	31		35

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217529-4 WG1217529-5 QC Sample: L1910853-15 Client ID: MS Sample												
Chromium, Hexavalent	ND	1140	1110	97		1080	103		75-125	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217630-4 WG1217630-5 QC Sample: L1910803-01 Client ID: MS Sample												
Cyanide, Total	ND	12	12	100		11	94		75-125	9		35

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217500-1 QC Sample: L1910691-01 Client ID: DUP Sample						
Solids, Total	86.6	83.2	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217529-7 QC Sample: L1910853-15 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910852**Project Number:** 16.6334**Report Date:** 03/26/19**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(*)
L1910852-01A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910852-01B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910852-01C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910852-01D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910852-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1910852-01F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910852-01G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910852
Report Date: 03/26/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

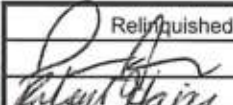
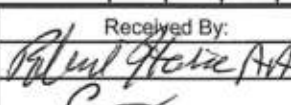
The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

		NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/20/19		ALPHA Job # 11910852															
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Hamilton Hill II TAIL Site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐ Project Manager: <u>Kirk Moline</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #																	
Client Information Client: <u>C.T. Mole Associates</u> Address: <u>50 Century Hill Dr</u> <u>Lehman NY 12110</u> Phone: <u>518 786 7400</u> Fax: <u>A.Smith@CTMole.com</u> Email: <u>K.Moline@CTMole.com</u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																					
These samples have been previously analyzed by Alpha ☐		ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Sample Specific Comments																			
Other project specific requirements/comments:		ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		TCL VOC + TICS		TCL SVOC + TICS		TCL PCB		TCL PEST		TAL Metals		and mercury, hex. chrom, cyanide		Total Bottles	
Please specify Metals or TAL.		10852-01		RIMWI-10-12		3/19/19 0845		Soil		DA		X		X		X		X		X		X		7	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		VA		A		A		A		A		A							
						Preservative		F		A		A		A		A		A							
Relinquished By:		Date/Time		Received By:		Date/Time																			
		3/19/19 1730				3/19/19 1730																			
Form No: 01-25 HC (rev. 30-Sept-2013)																									
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																									



ANALYTICAL REPORT

Lab Number:	L1910853
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II TA1 SITE
Project Number:	16.6334
Report Date:	03/26/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1910853-01	RISB4_2-4	SOIL	SCHENECTADY, NY	03/19/19 13:10	03/19/19
L1910853-02	RISB4_4-6	SOIL	SCHENECTADY, NY	03/19/19 13:15	03/19/19
L1910853-03	RISB4_6-8	SOIL	SCHENECTADY, NY	03/19/19 13:20	03/19/19
L1910853-04	RISB12_2-4	SOIL	SCHENECTADY, NY	03/19/19 13:30	03/19/19
L1910853-05	RISB12_4-6	SOIL	SCHENECTADY, NY	03/19/19 13:40	03/19/19
L1910853-06	RISB12_6-8	SOIL	SCHENECTADY, NY	03/19/19 13:50	03/19/19
L1910853-07	RISB3_2-4	SOIL	SCHENECTADY, NY	03/19/19 14:05	03/19/19
L1910853-08	RISB3_4-6	SOIL	SCHENECTADY, NY	03/19/19 14:10	03/19/19
L1910853-09	RISB3_6-8	SOIL	SCHENECTADY, NY	03/19/19 14:20	03/19/19
L1910853-10	EB01_190319	WATER	SCHENECTADY, NY	03/19/19 14:30	03/19/19
L1910853-11	RISB2_2-4	SOIL	SCHENECTADY, NY	03/19/19 14:50	03/19/19
L1910853-12	RISB2_4-6	SOIL	SCHENECTADY, NY	03/19/19 15:10	03/19/19
L1910853-13	RISB2_6-8	SOIL	SCHENECTADY, NY	03/19/19 15:20	03/19/19
L1910853-14	FD01_190319	SOIL	SCHENECTADY, NY	03/19/19 00:00	03/19/19
L1910853-15	RISB9_2-4	SOIL	SCHENECTADY, NY	03/19/19 16:10	03/19/19
L1910853-16	RISB9_4-6	SOIL	SCHENECTADY, NY	03/19/19 16:15	03/19/19
L1910853-17	RISB9_6-8	SOIL	SCHENECTADY, NY	03/19/19 16:20	03/19/19
L1910853-18	RISB7_2-4	SOIL	SCHENECTADY, NY	03/19/19 16:35	03/19/19
L1910853-19	RISB7_4-6	SOIL	SCHENECTADY, NY	03/19/19 16:45	03/19/19
L1910853-20	RISB7_6-8	SOIL	SCHENECTADY, NY	03/19/19 16:50	03/19/19
L1910853-21	TRANSPORT BLANK	WATER	SCHENECTADY, NY	03/19/19 00:00	03/19/19

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Case Narrative (continued)

Report Submission

March 26, 2019: This final report includes the results of all requested analyses.

March 21, 2019: This is a preliminary report.

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

Sample Receipt

The analyses performed were specified by the client.

Volatile Organics

The WG1217938-6/-7 MS/MSD recoveries, performed on L1910853-15, are outside the acceptance criteria for acetone (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Semivolatile Organics

The WG1217429-4/-5 MS/MSD recoveries, performed on L1910853-15, are below the acceptance criteria for 2,4-dinitrophenol (0%/0%) due to the concentration of this compound falling below the reported detection limit.

Pesticides

L1910853-19: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1910853-01, -04, -05, -07, -11, -14, -15, -16, -18 and -19: 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 WG1218817-1 Method Blank, associated with L1910853-05, -16, and -19, has concentrations above the

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Case Narrative (continued)

reporting limits for Iron, Calcium and Manganese. Since the associated sample concentrations are greater than 10x the blank concentrations for these analytes, no corrective action is required.

The WG1217750-3/-4 MS/MSD recoveries for aluminum (MSD 296%), calcium (0%/0%), iron (410%/1710%) and manganese (0%/47%), performed on L1910853-15, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1217750-3 MS recoveries, performed on L1910853-15, are outside the acceptance criteria for lead (1%) and zinc (73%). A post digestion spike was performed and yielded unacceptable recoveries for lead (73%) and zinc (77%). The serial dilution recoveries were not applicable; therefore, these elements fail the matrix test and the results reported in the native sample should be considered estimated.

The WG1217750-3 MS recovery, performed on L1910853-15, is outside the acceptance criteria for potassium (70%). A post digestion spike was performed and was within acceptance criteria.

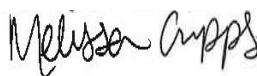
The WG1217750-3/-4 MS/MSD RPD, performed on L1910853-15, is above the acceptance criteria for lead (33%).

The WG1218780-3 MS recovery, performed on L1910853-05, is outside the acceptance criteria for mercury (67%). A post digestion spike was performed and was within acceptance criteria.

The WG1218780-4 Laboratory Duplicate RPD for mercury (55%), performed on L1910853-05, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/26/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-01
 Client ID: RISB4_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:10
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 13:50
 Analyst: JC
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	1.1		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-01**Date Collected:** 03/19/19 13:10**Client ID:** RISB4_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	8.3	J	ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.98	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	3.9	0.93	1
Cyclohexane	ND		ug/kg	9.8	0.53	1
1,4-Dioxane	ND		ug/kg	79	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-04
 Client ID: RISB12_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:30
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 14:17
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	3.8		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.2	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	0.41	J	ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-04**Date Collected:** 03/19/19 13:30**Client ID:** RISB12_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.18	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.97	1
Acetone	22		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	85	37.	1
Freon-113	ND		ug/kg	4.2	0.74	1
Methyl cyclohexane	ND		ug/kg	4.2	0.64	1

Tentatively Identified Compounds

Total TIC Compounds	12.3	J	ug/kg	1
1-Pentene	12.3	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-07
 Client ID: RISB3_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 14:44
 Analyst: JC
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	29		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	2.2		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-07**Date Collected:** 03/19/19 14:05**Client ID:** RISB3_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	12		ug/kg	2.5	0.69	1
o-Xylene	4.2		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	86		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Cyclohexane	ND		ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	99	43.	1
Freon-113	ND		ug/kg	5.0	0.86	1
Methyl cyclohexane	ND		ug/kg	5.0	0.75	1

Tentatively Identified Compounds

Total TIC Compounds	12.1	J	ug/kg	1
Unknown Alkene	5.21	J	ug/kg	1
Unknown	4.42	J	ug/kg	1
Unknown Alkene	2.51	J	ug/kg	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-07

Date Collected: 03/19/19 14:05

Client ID: RISB3_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-10
Client ID: EB01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/22/19 09:26
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	2.0	J	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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-10**Date Collected:** 03/19/19 14:30**Client ID:** EB01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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	7.1		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

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-11
 Client ID: RISB2_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:50
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 15:11
 Analyst: JC
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	6.5		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-11**Date Collected:** 03/19/19 14:50**Client ID:** RISB2_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.76	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-14
 Client ID: FD01_190319
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/24/19 18:17
 Analyst: JC
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	3.8		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-14**Date Collected:** 03/19/19 00:00**Client ID:** FD01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Cyclohexane	ND		ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	99	43.	1
Freon-113	ND		ug/kg	4.9	0.86	1
Methyl cyclohexane	ND		ug/kg	4.9	0.74	1

Tentatively Identified Compounds

Total TIC Compounds	8.05	J	ug/kg	1
Unknown Cycloalkane	8.05	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-15
 Client ID: RISB9_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 16:05
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.98	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.98	0.12	1
Dibromochloromethane	ND		ug/kg	0.98	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.26	1
Tetrachloroethene	2.2		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Bromodichloromethane	ND		ug/kg	0.49	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.16	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.98	0.53	1
Ethylbenzene	ND		ug/kg	0.98	0.14	1
Chloromethane	ND		ug/kg	3.9	0.92	1
Bromomethane	ND		ug/kg	2.0	0.57	1
Vinyl chloride	ND		ug/kg	0.98	0.33	1
Chloroethane	ND		ug/kg	2.0	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-15**Date Collected:** 03/19/19 16:10**Client ID:** RISB9_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.98	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.17	1
Styrene	ND		ug/kg	0.98	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.90	1
Acetone	100		ug/kg	9.8	4.7	1
Carbon disulfide	ND		ug/kg	9.8	4.5	1
2-Butanone	ND		ug/kg	9.8	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	1.2	1
2-Hexanone	ND		ug/kg	9.8	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.98	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.98	1
Isopropylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	3.9	0.93	1
Cyclohexane	ND		ug/kg	9.8	0.54	1
1,4-Dioxane	ND		ug/kg	79	34.	1
Freon-113	ND		ug/kg	3.9	0.68	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Tentatively Identified Compounds

Total TIC Compounds	27.6	J	ug/kg	1
Unknown Alkane	2.02	J	ug/kg	1
Unknown Alkane	1.99	J	ug/kg	1
Undecane	4.30	NJ	ug/kg	1
Unknown Alkane	6.99	J	ug/kg	1
Unknown	12.3	J	ug/kg	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-15

Date Collected: 03/19/19 16:10

Client ID: RISB9_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-18
 Client ID: RISB7_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/20/19 15:38
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	9.6		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.75	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-18**Date Collected:** 03/19/19 16:35**Client ID:** RISB7_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.99	1
Acetone	6.8	J	ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	4.9	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	86	38.	1
Freon-113	ND		ug/kg	4.3	0.75	1
Methyl cyclohexane	ND		ug/kg	4.3	0.65	1

Tentatively Identified Compounds

Total TIC Compounds	48.1	J	ug/kg	1
Cyclopentane	45.2	NJ	ug/kg	1
Butane, 2-Methyl-	2.86	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-21
Client ID: TRANSPORT BLANK
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/22/19 10:02
Analyst: NLK

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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-21
Client ID: TRANSPORT BLANK
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/19 08:26
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04,07,11,15,18 Batch: WG1217938-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/19 08:26
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04,07,11,15,18 Batch: WG1217938-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/kg

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/20/19 08:26
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,04,07,11,15,18 Batch: WG1217938-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 08:49
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,21 Batch: WG1218934-5					
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
1,1,1,2-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: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/22/19 08:49
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,21 Batch: WG1218934-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/22/19 08:49
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10,21 Batch: WG1218934-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 14 Batch: WG1219079-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.77	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 14 Batch: WG1219079-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.31	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	2.86	J	ug/kg
Unknown	2.86	J	ug/kg

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/24/19 12:18
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 14 Batch: WG1219079-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 Batch: WG1217938-3 WG1217938-4								
Methylene chloride	86		86		70-130	0		30
1,1-Dichloroethane	89		90		70-130	1		30
Chloroform	93		94		70-130	1		30
Carbon tetrachloride	102		104		70-130	2		30
1,2-Dichloropropane	88		90		70-130	2		30
Dibromochloromethane	92		95		70-130	3		30
1,1,2-Trichloroethane	88		90		70-130	2		30
Tetrachloroethene	97		97		70-130	0		30
Chlorobenzene	91		93		70-130	2		30
Trichlorofluoromethane	130		127		70-139	2		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	100		101		70-130	1		30
Bromodichloromethane	95		96		70-130	1		30
trans-1,3-Dichloropropene	91		93		70-130	2		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
Bromoform	92		94		70-130	2		30
1,1,2,2-Tetrachloroethane	88		87		70-130	1		30
Benzene	89		91		70-130	2		30
Toluene	90		91		70-130	1		30
Ethylbenzene	93		94		70-130	1		30
Chloromethane	77		80		52-130	4		30
Bromomethane	135		132		57-147	2		30
Vinyl chloride	85		86		67-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 Batch: WG1217938-3 WG1217938-4								
Chloroethane	122		118		50-151	3		30
1,1-Dichloroethene	122		122		65-135	0		30
trans-1,2-Dichloroethene	91		94		70-130	3		30
Trichloroethene	93		92		70-130	1		30
1,2-Dichlorobenzene	94		96		70-130	2		30
1,3-Dichlorobenzene	97		98		70-130	1		30
1,4-Dichlorobenzene	93		95		70-130	2		30
Methyl tert butyl ether	90		91		66-130	1		30
p/m-Xylene	95		96		70-130	1		30
o-Xylene	94		96		70-130	2		30
cis-1,2-Dichloroethene	91		93		70-130	2		30
Styrene	93		96		70-130	3		30
Dichlorodifluoromethane	87		89		30-146	2		30
Acetone	99		98		54-140	1		30
Carbon disulfide	112		117		59-130	4		30
2-Butanone	96		96		70-130	0		30
4-Methyl-2-pentanone	93		93		70-130	0		30
2-Hexanone	92		98		70-130	6		30
Bromochloromethane	96		97		70-130	1		30
1,2-Dibromoethane	93		94		70-130	1		30
1,2-Dibromo-3-chloropropane	95		92		68-130	3		30
Isopropylbenzene	94		94		70-130	0		30
1,2,3-Trichlorobenzene	96		98		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 Batch: WG1217938-3 WG1217938-4								
1,2,4-Trichlorobenzene	98		100		70-130	2		30
Methyl Acetate	88		89		51-146	1		30
Cyclohexane	96		98		59-142	2		30
1,4-Dioxane	103		104		65-136	1		30
Freon-113	131		132		50-139	1		30
Methyl cyclohexane	99		100		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	105		106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,21 Batch: WG1218934-3 WG1218934-4								
Methylene chloride	92		91		70-130	1		20
1,1-Dichloroethane	92		91		70-130	1		20
Chloroform	92		90		70-130	2		20
Carbon tetrachloride	78		76		63-132	3		20
1,2-Dichloropropane	93		90		70-130	3		20
Dibromochloromethane	90		90		63-130	0		20
1,1,2-Trichloroethane	94		98		70-130	4		20
Tetrachloroethene	99		97		70-130	2		20
Chlorobenzene	99		99		75-130	0		20
Trichlorofluoromethane	82		87		62-150	6		20
1,2-Dichloroethane	89		90		70-130	1		20
1,1,1-Trichloroethane	93		91		67-130	2		20
Bromodichloromethane	91		90		67-130	1		20
trans-1,3-Dichloropropene	88		88		70-130	0		20
cis-1,3-Dichloropropene	91		91		70-130	0		20
Bromoform	94		92		54-136	2		20
1,1,2,2-Tetrachloroethane	98		97		67-130	1		20
Benzene	94		92		70-130	2		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	85		80		64-130	6		20
Bromomethane	76		75		39-139	1		20
Vinyl chloride	95		90		55-140	5		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,21 Batch: WG1218934-3 WG1218934-4								
Chloroethane	99		92		55-138	7		20
1,1-Dichloroethene	91		88		61-145	3		20
trans-1,2-Dichloroethene	92		91		70-130	1		20
Trichloroethene	91		90		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	89		89		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	90		90		70-130	0		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	88		84		36-147	5		20
Acetone	97		93		58-148	4		20
Carbon disulfide	94		92		51-130	2		20
2-Butanone	92		90		63-138	2		20
4-Methyl-2-pentanone	92		92		59-130	0		20
2-Hexanone	97		95		57-130	2		20
Bromochloromethane	93		92		70-130	1		20
1,2-Dibromoethane	94		96		70-130	2		20
1,2-Dibromo-3-chloropropane	93		90		41-144	3		20
Isopropylbenzene	110		100		70-130	10		20
1,2,3-Trichlorobenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10,21 Batch: WG1218934-3 WG1218934-4								
1,2,4-Trichlorobenzene	100		100		70-130	0		20
Methyl Acetate	90		89		70-130	1		20
Cyclohexane	98		97		70-130	1		20
1,4-Dioxane	134		116		56-162	14		20
Freon-113	96		94		70-130	2		20
Methyl cyclohexane	97		97		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		104		70-130
Toluene-d8	104		106		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	100		102		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 14 Batch: WG1219079-3 WG1219079-4								
Methylene chloride	80		78		70-130	3		30
1,1-Dichloroethane	90		88		70-130	2		30
Chloroform	89		87		70-130	2		30
Carbon tetrachloride	88		85		70-130	3		30
1,2-Dichloropropane	89		87		70-130	2		30
Dibromochloromethane	87		85		70-130	2		30
1,1,2-Trichloroethane	89		88		70-130	1		30
Tetrachloroethene	77		74		70-130	4		30
Chlorobenzene	81		79		70-130	3		30
Trichlorofluoromethane	91		89		70-139	2		30
1,2-Dichloroethane	98		95		70-130	3		30
1,1,1-Trichloroethane	86		84		70-130	2		30
Bromodichloromethane	89		88		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	85		84		70-130	1		30
Bromoform	87		85		70-130	2		30
1,1,2,2-Tetrachloroethane	92		92		70-130	0		30
Benzene	83		80		70-130	4		30
Toluene	84		82		70-130	2		30
Ethylbenzene	85		83		70-130	2		30
Chloromethane	94		91		52-130	3		30
Bromomethane	101		101		57-147	0		30
Vinyl chloride	83		81		67-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 14 Batch: WG1219079-3 WG1219079-4								
Chloroethane	92		86		50-151	7		30
1,1-Dichloroethene	79		76		65-135	4		30
trans-1,2-Dichloroethene	79		78		70-130	1		30
Trichloroethene	81		79		70-130	3		30
1,2-Dichlorobenzene	84		83		70-130	1		30
1,3-Dichlorobenzene	83		82		70-130	1		30
1,4-Dichlorobenzene	82		81		70-130	1		30
Methyl tert butyl ether	90		88		66-130	2		30
p/m-Xylene	82		80		70-130	2		30
o-Xylene	82		80		70-130	2		30
cis-1,2-Dichloroethene	80		80		70-130	0		30
Styrene	82		81		70-130	1		30
Dichlorodifluoromethane	80		80		30-146	0		30
Acetone	115		115		54-140	0		30
Carbon disulfide	81		78		59-130	4		30
2-Butanone	110		112		70-130	2		30
4-Methyl-2-pentanone	99		102		70-130	3		30
2-Hexanone	110		108		70-130	2		30
Bromochloromethane	81		80		70-130	1		30
1,2-Dibromoethane	88		85		70-130	3		30
1,2-Dibromo-3-chloropropane	91		88		68-130	3		30
Isopropylbenzene	87		85		70-130	2		30
1,2,3-Trichlorobenzene	83		82		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 14 Batch: WG1219079-3 WG1219079-4								
1,2,4-Trichlorobenzene	81		80		70-130	1		30
Methyl Acetate	106		106		51-146	0		30
Cyclohexane	87		84		59-142	4		30
1,4-Dioxane	102		104		65-136	2		30
Freon-113	82		80		50-139	2		30
Methyl cyclohexane	78		76		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	99		101		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 QC Batch ID: WG1217938-6 WG1217938-7 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Methylene chloride	ND	108	78	72		79	81		70-130	1		30
1,1-Dichloroethane	ND	108	84	77		84	86		70-130	0		30
Chloroform	ND	108	86	79		85	87		70-130	1		30
Carbon tetrachloride	ND	108	100	94		100	104		70-130	0		30
1,2-Dichloropropane	ND	108	78	72		80	82		70-130	2		30
Dibromochloromethane	ND	108	84	78		86	88		70-130	2		30
1,1,2-Trichloroethane	ND	108	77	71		77	79		70-130	0		30
Tetrachloroethene	2.2	108	81	73		80	79		70-130	2		30
Chlorobenzene	ND	108	68	63	Q	72	74		70-130	5		30
Trichlorofluoromethane	ND	108	140	125		130	137		70-139	1		30
1,2-Dichloroethane	ND	108	82	76		83	85		70-130	2		30
1,1,1-Trichloroethane	ND	108	97	89		97	99		70-130	0		30
Bromodichloromethane	ND	108	86	79		87	89		70-130	2		30
trans-1,3-Dichloropropene	ND	108	75	69	Q	81	83		70-130	8		30
cis-1,3-Dichloropropene	ND	108	79	73		83	85		70-130	5		30
Bromoform	ND	108	81	75		83	85		70-130	2		30
1,1,2,2-Tetrachloroethane	ND	108	69	63	Q	71	72		70-130	3		30
Benzene	ND	108	81	74		82	83		70-130	1		30
Toluene	ND	108	76	70		78	79		70-130	2		30
Ethylbenzene	ND	108	69	64	Q	72	73		70-130	4		30
Chloromethane	ND	108	78	72		82	84		52-130	5		30
Bromomethane	ND	108	120	106		130	131		57-147	11		30
Vinyl chloride	ND	108	91	83		92	94		67-130	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 QC Batch ID: WG1217938-6 WG1217938-7 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Chloroethane	ND	108	87	80		92	95		50-151	6		30
1,1-Dichloroethene	ND	108	130	115		120	127		65-135	1		30
trans-1,2-Dichloroethene	ND	108	83	76		87	89		70-130	5		30
Trichloroethene	ND	108	82	76		82	84		70-130	0		30
1,2-Dichlorobenzene	ND	108	58	53	Q	65	66	Q	70-130	11		30
1,3-Dichlorobenzene	ND	108	55	51	Q	63	64	Q	70-130	13		30
1,4-Dichlorobenzene	ND	108	51	47	Q	59	60	Q	70-130	14		30
Methyl tert butyl ether	ND	108	81	75		81	82		66-130	1		30
p/m-Xylene	ND	217	130	62	Q	140	72		70-130	4		30
o-Xylene	ND	217	140	63	Q	140	72		70-130	3		30
cis-1,2-Dichloroethene	ND	108	81	75		83	85		70-130	3		30
Styrene	ND	217	130	59	Q	140	71		70-130	8		30
Dichlorodifluoromethane	ND	108	96	89		96	99		30-146	0		30
Acetone	100	108	88	0	Q	81	0	Q	54-140	9		30
Carbon disulfide	ND	108	110	98		120	123		59-130	12		30
2-Butanone	ND	108	82	75		79	80		70-130	4		30
4-Methyl-2-pentanone	ND	108	81	74		79	81		70-130	2		30
2-Hexanone	ND	108	77	71		77	78		70-130	1		30
Bromochloromethane	ND	108	81	75		82	84		70-130	1		30
1,2-Dibromoethane	ND	108	77	71		81	82		70-130	4		30
1,2-Dibromo-3-chloropropane	ND	108	77	71		81	83		68-130	5		30
Isopropylbenzene	ND	108	66	61	Q	69	70		70-130	4		30
1,2,3-Trichlorobenzene	ND	108	46	43	Q	60	61	Q	70-130	25		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,04,07,11,15,18 QC Batch ID: WG1217938-6 WG1217938-7 QC Sample: L1910853-15 Client ID: RISB9_2-4												
1,2,4-Trichlorobenzene	ND	108	43	40	Q	57	58	Q	70-130	27		30
Methyl Acetate	ND	108	89	82		81	83		51-146	10		30
Cyclohexane	ND	108	92	85		93	95		59-142	1		30
1,4-Dioxane	ND	5420	5500	102		5500	112		65-136	1		30
Freon-113	ND	108	130	124		140	144	Q	50-139	5		30
Methyl cyclohexane	ND	108	91	84		93	96		70-130	3		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	104		105		70-130
Toluene-d8	99		98		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-01
 Client ID: RISB4_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:10
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 14:41
 Analyst: JG
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

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	39	J	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	150	J	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	61.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	23	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-01**Date Collected:** 03/19/19 13:10**Client ID:** RISB4_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	32	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	24	J	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	35	J	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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-01**Date Collected:** 03/19/19 13:10**Client ID:** RISB4_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Tentatively Identified Compounds

Total TIC Compounds	1040	J	ug/kg			1
Unknown	157	J	ug/kg			1
Unknown	175	J	ug/kg			1
Unknown	175	J	ug/kg			1
Unknown	159	J	ug/kg			1
Unknown	208	J	ug/kg			1
Unknown Amide	164	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	85		18-120

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-04
 Client ID: RISB12_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:30
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 15:04
 Analyst: JG
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	70	J	ug/kg	150	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	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1500		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	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	120	J	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	63.	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	38.	1
Benzo(a)anthracene	680		ug/kg	110	21.	1
Benzo(a)pyrene	670		ug/kg	150	45.	1

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-04

Date Collected: 03/19/19 13:30

Client ID: RISB12_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	830		ug/kg	110	31.	1
Benzo(k)fluoranthene	320		ug/kg	110	29.	1
Chrysene	700		ug/kg	110	19.	1
Acenaphthylene	180		ug/kg	150	28.	1
Anthracene	200		ug/kg	110	36.	1
Benzo(ghi)perylene	350		ug/kg	150	22.	1
Fluorene	110	J	ug/kg	180	18.	1
Phenanthrene	1100		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	86	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	380		ug/kg	150	26.	1
Pyrene	1300		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	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	76.	1
Dibenzofuran	100	J	ug/kg	180	17.	1
2-Methylnaphthalene	50	J	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	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	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	120	J	ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	64.	1
Benzaldehyde	ND		ug/kg	240	49.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-04**Date Collected:** 03/19/19 13:30**Client ID:** RISB12_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	1880	J	ug/kg			1
Unknown PAH	221	J	ug/kg			1
Unknown PAH	158	J	ug/kg			1
Unknown Amide	273	J	ug/kg			1
Unknown PAH	177	J	ug/kg			1
Unknown	309	J	ug/kg			1
Unknown PAH	432	J	ug/kg			1
Unknown Ketone	314	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	125		10-136
4-Terphenyl-d14	89		18-120

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-07
 Client ID: RISB3_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 12:41
 Analyst: JG
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

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	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	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	27.	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	61.	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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-07**Date Collected:** 03/19/19 14:05**Client ID:** RISB3_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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	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	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	74.	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	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	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	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	48.	1

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-07
Client ID: RISB3_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Tentatively Identified Compounds

Total TIC Compounds	559	J	ug/kg			1
Unknown	193	J	ug/kg			1
Unknown Amide	150	J	ug/kg			1
Unknown	216	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	119		10-136
4-Terphenyl-d14	89		18-120

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-10
 Client ID: EB01_190319
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 03/25/19 15:53
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 03/22/19 03:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-10**Date Collected:** 03/19/19 14:30**Client ID:** EB01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	11.3	J	ug/l	1
Aldol Condensates	11.3	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	38		10-120
4-Terphenyl-d14	62		41-149

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-10
Client ID: EB01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 03/26/19 14:07
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 03/22/19 03:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.04	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.16		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.06	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.09	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.01	J	ug/l	0.10	0.01	1
Fluorene	0.06	J	ug/l	0.10	0.01	1
Phenanthrene	0.30		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.16		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.04	J	ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-10

Date Collected: 03/19/19 14:30

Client ID: EB01_190319

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	82		41-149

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-11
 Client ID: RISB2_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:50
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 13:53
 Analyst: JG
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

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	84	J	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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-11**Date Collected:** 03/19/19 14:50**Client ID:** RISB2_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
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	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

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-11**Date Collected:** 03/19/19 14:50**Client ID:** RISB2_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Tentatively Identified Compounds

Total TIC Compounds	586	J	ug/kg			1
Unknown Amide	586	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	121		10-136
4-Terphenyl-d14	87		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-14
Client ID: FD01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/21/19 14:17
Analyst: JG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 04:59

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	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	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	46.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-14**Date Collected:** 03/19/19 00:00**Client ID:** FD01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
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	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	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	ND		ug/kg	250	50.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-14**Date Collected:** 03/19/19 00:00**Client ID:** FD01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1

Tentatively Identified Compounds

Total TIC Compounds	478	J	ug/kg			1
Unknown Amide	478	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	121		10-136
4-Terphenyl-d14	86		18-120

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-15
 Client ID: RISB9_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 15:52
 Analyst: JG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

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	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	45	J	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	60.	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	29	J	ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-15**Date Collected:** 03/19/19 16:10**Client ID:** RISB9_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	33	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	23	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	46	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	29	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	21	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	25	J	ug/kg	140	24.	1
Pyrene	36	J	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	72.	1
Dibenzofuran	ND		ug/kg	180	16.	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	71.	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	38.	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

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-15
Client ID: RISB9_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1

Tentatively Identified Compounds

Total TIC Compounds	373	J	ug/kg			1
Unknown	373	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	86		18-120

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-18
 Client ID: RISB7_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/21/19 15:28
 Analyst: JG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 04:59

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	66	J	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	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	40	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-18**Date Collected:** 03/19/19 16:35**Client ID:** RISB7_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	53	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	39	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	31	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	31	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	26	J	ug/kg	140	25.	1
Pyrene	53	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	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	22.	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	260	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	28.	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

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-18
Client ID: RISB7_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	704	J	ug/kg			1
Tetrachloroethene	310	NJ	ug/kg			1
Unknown Amide	394	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	88		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 15:27
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/20/19 04:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 15:27
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/20/19 04:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 15:27
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/20/19 04:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	77		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	79		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/19 00:12
Analyst: JG

Extraction Method: EPA 3510C
Extraction Date: 03/22/19 03:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1218328-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	0.51	J	ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/23/19 00:12
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 03/22/19 03:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1218328-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	4.07	J	ug/l
Aldol Condensates	4.07	J	ug/l

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/23/19 00:12
 Analyst: JG

Extraction Method: EPA 3510C
 Extraction Date: 03/22/19 03:14

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1218328-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	67		41-149

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/24/19 18:39
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/22/19 03:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1218329-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	0.03	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.02	J	ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 03/24/19 18:39
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 03/22/19 03:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 10 Batch: WG1218329-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	44		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	87		10-120
4-Terphenyl-d14	73		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-2 WG1217429-3								
Acenaphthene	95		95		31-137	0		50
Hexachlorobenzene	101		102		40-140	1		50
Bis(2-chloroethyl)ether	82		79		40-140	4		50
2-Chloronaphthalene	91		91		40-140	0		50
3,3'-Dichlorobenzidine	61		58		40-140	5		50
2,4-Dinitrotoluene	107		107		40-132	0		50
2,6-Dinitrotoluene	100		102		40-140	2		50
Fluoranthene	94		94		40-140	0		50
4-Chlorophenyl phenyl ether	96		96		40-140	0		50
4-Bromophenyl phenyl ether	106		106		40-140	0		50
Bis(2-chloroisopropyl)ether	73		70		40-140	4		50
Bis(2-chloroethoxy)methane	88		87		40-117	1		50
Hexachlorobutadiene	82		80		40-140	2		50
Hexachlorocyclopentadiene	82		82		40-140	0		50
Hexachloroethane	78		74		40-140	5		50
Isophorone	88		88		40-140	0		50
Naphthalene	83		80		40-140	4		50
Nitrobenzene	84		82		40-140	2		50
NDPA/DPA	102		103		36-157	1		50
n-Nitrosodi-n-propylamine	87		87		32-121	0		50
Bis(2-ethylhexyl)phthalate	106		106		40-140	0		50
Butyl benzyl phthalate	92		92		40-140	0		50
Di-n-butylphthalate	90		91		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-2 WG1217429-3								
Di-n-octylphthalate	106		106		40-140	0		50
Diethyl phthalate	100		100		40-140	0		50
Dimethyl phthalate	96		98		40-140	2		50
Benzo(a)anthracene	105		103		40-140	2		50
Benzo(a)pyrene	111		110		40-140	1		50
Benzo(b)fluoranthene	106		107		40-140	1		50
Benzo(k)fluoranthene	108		105		40-140	3		50
Chrysene	99		98		40-140	1		50
Acenaphthylene	95		96		40-140	1		50
Anthracene	90		90		40-140	0		50
Benzo(ghi)perylene	92		91		40-140	1		50
Fluorene	100		100		40-140	0		50
Phenanthrene	89		89		40-140	0		50
Dibenzo(a,h)anthracene	94		92		40-140	2		50
Indeno(1,2,3-cd)pyrene	97		95		40-140	2		50
Pyrene	93		94		35-142	1		50
Biphenyl	96		97		54-104	1		50
4-Chloroaniline	74		73		40-140	1		50
2-Nitroaniline	100		103		47-134	3		50
3-Nitroaniline	70		65		26-129	7		50
4-Nitroaniline	104		104		41-125	0		50
Dibenzofuran	96		97		40-140	1		50
2-Methylnaphthalene	87		87		40-140	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-2 WG1217429-3								
1,2,4,5-Tetrachlorobenzene	93		92		40-117	1		50
Acetophenone	94		92		14-144	2		50
2,4,6-Trichlorophenol	97		100		30-130	3		50
p-Chloro-m-cresol	98		101		26-103	3		50
2-Chlorophenol	87		85		25-102	2		50
2,4-Dichlorophenol	97		98		30-130	1		50
2,4-Dimethylphenol	95		96		30-130	1		50
2-Nitrophenol	92		89		30-130	3		50
4-Nitrophenol	114		115	Q	11-114	1		50
2,4-Dinitrophenol	94		97		4-130	3		50
4,6-Dinitro-o-cresol	115		120		10-130	4		50
Pentachlorophenol	116	Q	115	Q	17-109	1		50
Phenol	88		88		26-90	0		50
2-Methylphenol	90		91		30-130.	1		50
3-Methylphenol/4-Methylphenol	91		93		30-130	2		50
2,4,5-Trichlorophenol	101		102		30-130	1		50
Carbazole	91		92		54-128	1		50
Atrazine	125		127		40-140	2		50
Benzaldehyde	84		81		40-140	4		50
Caprolactam	101		102		15-130	1		50
2,3,4,6-Tetrachlorophenol	106		105		40-140	1		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217429-2 WG1217429-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		83		25-120
Phenol-d6	84		85		10-120
Nitrobenzene-d5	83		82		23-120
2-Fluorobiphenyl	88		89		30-120
2,4,6-Tribromophenol	108		108		10-136
4-Terphenyl-d14	89		88		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1218328-2 WG1218328-3								
Bis(2-chloroethyl)ether	66		69		40-140	4		30
3,3'-Dichlorobenzidine	46		57		40-140	21		30
2,4-Dinitrotoluene	82		88		48-143	7		30
2,6-Dinitrotoluene	69		76		40-140	10		30
4-Chlorophenyl phenyl ether	66		75		40-140	13		30
4-Bromophenyl phenyl ether	67		73		40-140	9		30
Bis(2-chloroisopropyl)ether	59		62		40-140	5		30
Bis(2-chloroethoxy)methane	76		82		40-140	8		30
Hexachlorocyclopentadiene	47		52		40-140	10		30
Isophorone	76		85		40-140	11		30
Nitrobenzene	74		77		40-140	4		30
NDPA/DPA	74		84		40-140	13		30
n-Nitrosodi-n-propylamine	76		85		29-132	11		30
Bis(2-ethylhexyl)phthalate	68		86		40-140	23		30
Butyl benzyl phthalate	60		68		40-140	13		30
Di-n-butylphthalate	67		81		40-140	19		30
Di-n-octylphthalate	64		76		40-140	17		30
Diethyl phthalate	76		87		40-140	13		30
Dimethyl phthalate	78		82		40-140	5		30
Biphenyl	60		68		40-140	13		30
4-Chloroaniline	29	Q	33	Q	40-140	13		30
2-Nitroaniline	63		75		52-143	17		30
3-Nitroaniline	46		62		25-145	30		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1218328-2 WG1218328-3								
4-Nitroaniline	62		71		51-143	14		30
Dibenzofuran	66		75		40-140	13		30
1,2,4,5-Tetrachlorobenzene	48		56		2-134	15		30
Acetophenone	65		70		39-129	7		30
2,4,6-Trichlorophenol	61		67		30-130	9		30
p-Chloro-m-cresol	70		80		23-97	13		30
2-Chlorophenol	67		70		27-123	4		30
2,4-Dichlorophenol	76		79		30-130	4		30
2,4-Dimethylphenol	77		75		30-130	3		30
2-Nitrophenol	74		80		30-130	8		30
4-Nitrophenol	96	Q	100	Q	10-80	4		30
2,4-Dinitrophenol	88		97		20-130	10		30
4,6-Dinitro-o-cresol	87		94		20-164	8		30
Phenol	58		63		12-110	8		30
3-Methylphenol/4-Methylphenol	76		83		30-130	9		30
2,4,5-Trichlorophenol	63		70		30-130	11		30
Carbazole	70		79		55-144	12		30
Atrazine	82		85		40-140	4		30
Benzaldehyde	59		59		40-140	0		30
Caprolactam	38		45		10-130	17		30
2,3,4,6-Tetrachlorophenol	71		80		40-140	12		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1218328-2 WG1218328-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		62		21-120
Phenol-d6	52		57		10-120
Nitrobenzene-d5	76		78		23-120
2-Fluorobiphenyl	59		65		15-120
2,4,6-Tribromophenol	59		62		10-120
4-Terphenyl-d14	55		64		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1218329-2 WG1218329-3								
Acenaphthene	62		65		40-140	5		40
2-Chloronaphthalene	62		63		40-140	2		40
Fluoranthene	67		71		40-140	6		40
Hexachlorobutadiene	55		56		40-140	2		40
Naphthalene	54		55		40-140	2		40
Benzo(a)anthracene	76		82		40-140	8		40
Benzo(a)pyrene	67		72		40-140	7		40
Benzo(b)fluoranthene	70		75		40-140	7		40
Benzo(k)fluoranthene	71		78		40-140	9		40
Chrysene	72		78		40-140	8		40
Acenaphthylene	67		69		40-140	3		40
Anthracene	66		71		40-140	7		40
Benzo(ghi)perylene	56		59		40-140	5		40
Fluorene	72		77		40-140	7		40
Phenanthrene	63		67		40-140	6		40
Dibenzo(a,h)anthracene	60		63		40-140	5		40
Indeno(1,2,3-cd)pyrene	60		63		40-140	5		40
Pyrene	68		73		40-140	7		40
2-Methylnaphthalene	59		60		40-140	2		40
Pentachlorophenol	73		78		40-140	7		40
Hexachlorobenzene	62		67		40-140	8		40
Hexachloroethane	53		53		40-140	0		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 10 Batch: WG1218329-2 WG1218329-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		48		21-120
Phenol-d6	40		42		10-120
Nitrobenzene-d5	61		62		23-120
2-Fluorobiphenyl	57		58		15-120
2,4,6-Tribromophenol	72		79		10-120
4-Terphenyl-d14	61		65		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217429-4 WG1217429-5 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Acenaphthene	ND	1410	1100	78		1300	94		31-137	17		50
Hexachlorobenzene	ND	1410	1200	85		1500	110		40-140	22		50
Bis(2-chloroethyl)ether	ND	1410	940	66		1000	72		40-140	6		50
2-Chloronaphthalene	ND	1410	1100	78		1200	87		40-140	9		50
3,3'-Dichlorobenzidine	ND	1410	760	54		1000	72		40-140	27		50
2,4-Dinitrotoluene	ND	1410	1100	78		1300	94		40-132	17		50
2,6-Dinitrotoluene	ND	1410	1200	85		1400	100		40-140	15		50
Fluoranthene	45J	1410	1100	78		1400	100		40-140	24		50
4-Chlorophenyl phenyl ether	ND	1410	1100	78		1300	94		40-140	17		50
4-Bromophenyl phenyl ether	ND	1410	1200	85		1400	100		40-140	15		50
Bis(2-chloroisopropyl)ether	ND	1410	840	59		900	65		40-140	7		50
Bis(2-chloroethoxy)methane	ND	1410	1000	71		1100	79		40-117	10		50
Hexachlorobutadiene	ND	1410	930	66		1000	72		40-140	7		50
Hexachlorocyclopentadiene	ND	1410	390J	28	Q	390J	28	Q	40-140	0		50
Hexachloroethane	ND	1410	810	57		840	61		40-140	4		50
Isophorone	ND	1410	1000	71		1100	79		40-140	10		50
Naphthalene	ND	1410	980	69		1100	79		40-140	12		50
Nitrobenzene	ND	1410	1000	71		1200	87		40-140	18		50
NDPA/DPA	ND	1410	1200	85		1400	100		36-157	15		50
n-Nitrosodi-n-propylamine	ND	1410	970	69		1100	79		32-121	13		50
Bis(2-ethylhexyl)phthalate	ND	1410	1200	85		1600	120		40-140	29		50
Butyl benzyl phthalate	ND	1410	1100	78		1400	100		40-140	24		50
Di-n-butylphthalate	ND	1410	1000	71		1200	87		40-140	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217429-4 WG1217429-5 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Di-n-octylphthalate	ND	1410	1200	85		1500	110		40-140	22		50
Diethyl phthalate	ND	1410	1100	78		1300	94		40-140	17		50
Dimethyl phthalate	ND	1410	1100	78		1300	94		40-140	17		50
Benzo(a)anthracene	29J	1410	1100	78		1400	100		40-140	24		50
Benzo(a)pyrene	ND	1410	1100	78		1400	100		40-140	24		50
Benzo(b)fluoranthene	33J	1410	1100	78		1400	100		40-140	24		50
Benzo(k)fluoranthene	ND	1410	1100	78		1300	94		40-140	17		50
Chrysene	23J	1410	1100	78		1400	100		40-140	24		50
Acenaphthylene	ND	1410	1200	85		1300	94		40-140	8		50
Anthracene	ND	1410	1000	71		1200	87		40-140	18		50
Benzo(ghi)perylene	46J	1410	1000	71		1200	87		40-140	18		50
Fluorene	ND	1410	1200	85		1300	94		40-140	8		50
Phenanthrene	29J	1410	990	70		1200	87		40-140	19		50
Dibenzo(a,h)anthracene	21J	1410	980	69		1200	87		40-140	20		50
Indeno(1,2,3-cd)pyrene	25J	1410	1000	71		1300	94		40-140	26		50
Pyrene	36J	1410	1100	78		1400	100		35-142	24		50
Biphenyl	ND	1410	1200	85		1300	94		54-104	8		50
4-Chloroaniline	ND	1410	300	21	Q	390	28	Q	40-140	26		50
2-Nitroaniline	ND	1410	1400	99		1600	120		47-134	13		50
3-Nitroaniline	ND	1410	970	69		1200	87		26-129	21		50
4-Nitroaniline	ND	1410	1400	99		1600	120		41-125	13		50
Dibenzofuran	ND	1410	1100	78		1300	94		40-140	17		50
2-Methylnaphthalene	ND	1410	1000	71		1200	87		40-140	18		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217429-4 WG1217429-5 QC Sample: L1910853-15 Client ID: RISB9_2-4												
1,2,4,5-Tetrachlorobenzene	ND	1410	1100	78		1300	94		40-117	17		50
Acetophenone	ND	1410	990	70		1100	79		14-144	11		50
2,4,6-Trichlorophenol	ND	1410	1200	85		1300	94		30-130	8		50
p-Chloro-m-cresol	ND	1410	1200	85		1400	100		26-103	15		50
2-Chlorophenol	ND	1410	1100	78		1200	87		25-102	9		50
2,4-Dichlorophenol	ND	1410	1200	85		1400	100		30-130	15		50
2,4-Dimethylphenol	ND	1410	1100	78		1200	87		30-130	9		50
2-Nitrophenol	ND	1410	1300	92		1400	100		30-130	7		50
4-Nitrophenol	ND	1410	1400	99		1400	100		11-114	0		50
2,4-Dinitrophenol	ND	1410	ND	0	Q	ND	0	Q	4-130	NC		50
4,6-Dinitro-o-cresol	ND	1410	310J	22		350J	25		10-130	12		50
Pentachlorophenol	ND	1410	1000	71		1300	94		17-109	26		50
Phenol	ND	1410	960	68		1100	79		26-90	14		50
2-Methylphenol	ND	1410	1000	71		1200	87		30-130.	18		50
3-Methylphenol/4-Methylphenol	ND	1410	1100	78		1200	87		30-130	9		50
2,4,5-Trichlorophenol	ND	1410	1300	92		1500	110		30-130	14		50
Carbazole	ND	1410	1000	71		1300	94		54-128	26		50
Atrazine	ND	1410	1300	92		1600	120		40-140	21		50
Benzaldehyde	ND	1410	890	63		960	69		40-140	8		50
Caprolactam	ND	1410	1100	78		1400	100		15-130	24		50
2,3,4,6-Tetrachlorophenol	ND	1410	1100	78		1300	94		40-140	17		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217429-4 WG1217429-5 QC Sample: L1910853-15 Client ID: RISB9_2-4

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	98		117		10-136
2-Fluorobiphenyl	75		85		30-120
2-Fluorophenol	71		77		25-120
4-Terphenyl-d14	75		92		18-120
Nitrobenzene-d5	74		84		23-120
Phenol-d6	68		78		10-120

PCBS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-01
Client ID: RISB4_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 16:09
Analyst: HT
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	3.20	1	A
Aroclor 1221	ND		ug/kg	36.1	3.61	1	A
Aroclor 1232	ND		ug/kg	36.1	7.64	1	A
Aroclor 1242	18.0	J	ug/kg	36.1	4.86	1	A
Aroclor 1248	ND		ug/kg	36.1	5.41	1	A
Aroclor 1254	ND		ug/kg	36.1	3.94	1	A
Aroclor 1260	ND		ug/kg	36.1	6.66	1	A
Aroclor 1262	ND		ug/kg	36.1	4.58	1	A
Aroclor 1268	ND		ug/kg	36.1	3.74	1	A
PCBs, Total	18.0	J	ug/kg	36.1	3.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-04
Client ID: RISB12_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 16:22
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.58	1	A
Aroclor 1232	ND		ug/kg	35.7	7.57	1	A
Aroclor 1242	ND		ug/kg	35.7	4.81	1	A
Aroclor 1248	ND		ug/kg	35.7	5.36	1	A
Aroclor 1254	6.66	J	ug/kg	35.7	3.91	1	A
Aroclor 1260	9.71	J	ug/kg	35.7	6.60	1	A
Aroclor 1262	ND		ug/kg	35.7	4.53	1	A
Aroclor 1268	4.80	J	ug/kg	35.7	3.70	1	B
PCBs, Total	21.2	J	ug/kg	35.7	3.17	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-07
Client ID: RISB3_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 16:35
Analyst: HT
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	3.20	1	A
Aroclor 1221	ND		ug/kg	36.0	3.61	1	A
Aroclor 1232	ND		ug/kg	36.0	7.64	1	A
Aroclor 1242	ND		ug/kg	36.0	4.86	1	A
Aroclor 1248	ND		ug/kg	36.0	5.41	1	A
Aroclor 1254	ND		ug/kg	36.0	3.94	1	A
Aroclor 1260	ND		ug/kg	36.0	6.66	1	A
Aroclor 1262	ND		ug/kg	36.0	4.58	1	A
Aroclor 1268	ND		ug/kg	36.0	3.73	1	A
PCBs, Total	ND		ug/kg	36.0	3.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-10
Client ID: EB01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 03/23/19 03:09
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 03/21/19 19:45
Cleanup Method: EPA 3665A
Cleanup Date: 03/22/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.082	0.034	1	A
Aroclor 1221	ND		ug/l	0.082	0.066	1	A
Aroclor 1232	ND		ug/l	0.082	0.045	1	A
Aroclor 1242	ND		ug/l	0.082	0.038	1	A
Aroclor 1248	ND		ug/l	0.082	0.048	1	A
Aroclor 1254	ND		ug/l	0.082	0.039	1	A
Aroclor 1260	0.055	J	ug/l	0.082	0.032	1	B
Aroclor 1262	ND		ug/l	0.082	0.034	1	A
Aroclor 1268	ND		ug/l	0.082	0.033	1	A
PCBs, Total	0.055	J	ug/l	0.082	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-11
Client ID: RISB2_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 16:48
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	3.24	1	A
Aroclor 1221	ND		ug/kg	36.4	3.65	1	A
Aroclor 1232	ND		ug/kg	36.4	7.72	1	A
Aroclor 1242	ND		ug/kg	36.4	4.91	1	A
Aroclor 1248	ND		ug/kg	36.4	5.46	1	A
Aroclor 1254	ND		ug/kg	36.4	3.99	1	A
Aroclor 1260	ND		ug/kg	36.4	6.73	1	A
Aroclor 1262	ND		ug/kg	36.4	4.63	1	A
Aroclor 1268	ND		ug/kg	36.4	3.77	1	A
PCBs, Total	ND		ug/kg	36.4	3.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-14
Client ID: FD01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 17:52
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	3.30	1	A
Aroclor 1221	ND		ug/kg	37.2	3.73	1	A
Aroclor 1232	ND		ug/kg	37.2	7.88	1	A
Aroclor 1242	ND		ug/kg	37.2	5.01	1	A
Aroclor 1248	ND		ug/kg	37.2	5.58	1	A
Aroclor 1254	ND		ug/kg	37.2	4.07	1	A
Aroclor 1260	ND		ug/kg	37.2	6.87	1	A
Aroclor 1262	ND		ug/kg	37.2	4.72	1	A
Aroclor 1268	ND		ug/kg	37.2	3.85	1	A
PCBs, Total	ND		ug/kg	37.2	3.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-15
Client ID: RISB9_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 15:31
Analyst: HT
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.1	3.02	1	A
Aroclor 1221	ND		ug/kg	34.1	3.41	1	A
Aroclor 1232	ND		ug/kg	34.1	7.22	1	A
Aroclor 1242	ND		ug/kg	34.1	4.59	1	A
Aroclor 1248	ND		ug/kg	34.1	5.11	1	A
Aroclor 1254	ND		ug/kg	34.1	3.73	1	A
Aroclor 1260	ND		ug/kg	34.1	6.29	1	A
Aroclor 1262	ND		ug/kg	34.1	4.32	1	A
Aroclor 1268	ND		ug/kg	34.1	3.53	1	A
PCBs, Total	ND		ug/kg	34.1	3.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-18
Client ID: RISB7_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/20/19 18:05
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	3.19	1	A
Aroclor 1221	ND		ug/kg	36.0	3.60	1	A
Aroclor 1232	ND		ug/kg	36.0	7.62	1	A
Aroclor 1242	ND		ug/kg	36.0	4.85	1	A
Aroclor 1248	ND		ug/kg	36.0	5.40	1	A
Aroclor 1254	ND		ug/kg	36.0	3.94	1	A
Aroclor 1260	ND		ug/kg	36.0	6.65	1	A
Aroclor 1262	ND		ug/kg	36.0	4.57	1	A
Aroclor 1268	ND		ug/kg	36.0	3.73	1	A
PCBs, Total	ND		ug/kg	36.0	3.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	53		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/20/19 17:00
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/20/19 05:00
Cleanup Method: EPA 3665A
Cleanup Date: 03/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217430-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.01	A
Aroclor 1268	ND		ug/kg	31.6	3.27	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/23/19 03:22
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 03/21/19 19:45
Cleanup Method: EPA 3665A
Cleanup Date: 03/22/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 10 Batch: WG1218268-1						
Aroclor 1016	ND		ug/l	0.082	0.034	A
Aroclor 1221	ND		ug/l	0.082	0.066	A
Aroclor 1232	ND		ug/l	0.082	0.045	A
Aroclor 1242	ND		ug/l	0.082	0.038	A
Aroclor 1248	ND		ug/l	0.082	0.048	A
Aroclor 1254	ND		ug/l	0.082	0.039	A
Aroclor 1260	ND		ug/l	0.082	0.032	A
Aroclor 1262	ND		ug/l	0.082	0.034	A
Aroclor 1268	ND		ug/l	0.082	0.033	A
PCBs, Total	ND		ug/l	0.082	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	78		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217430-2 WG1217430-3									
Aroclor 1016	78		72		40-140	8		50	A
Aroclor 1260	74		70		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		62		30-150	A
Decachlorobiphenyl	69		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		64		30-150	B
Decachlorobiphenyl	75		69		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 10 Batch: WG1218268-2 WG1218268-3									
Aroclor 1016	57		67		40-140	16		50	A
Aroclor 1260	55		68		40-140	22		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		77		30-150	A
Decachlorobiphenyl	68		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		82		30-150	B
Decachlorobiphenyl	73		88		30-150	B

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910853**Report Date:** 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217430-4 WG1217430-5 QC Sample: L1910853-15 Client ID: RISB9_2-4													
Aroclor 1016	ND	213	169	79		166	77		40-140	2		50	A
Aroclor 1260	ND	213	144	68		142	66		40-140	1		50	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		66		30-150	A
Decachlorobiphenyl	67		65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		71		30-150	B
Decachlorobiphenyl	77		75		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-01
 Client ID: RISB4_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:10
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/20/19 14:42
 Analyst: SL
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 03:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	3.34		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-01**Date Collected:** 03/19/19 13:10**Client ID:** RISB4_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	109		30-150	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-02
 Client ID: RISB4_4-6
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:15
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/24/19 15:16
 Analyst: SL
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.839	0.376	1	A
Aldrin	ND		ug/kg	1.68	0.591	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.944	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.734	1	A
Endrin ketone	ND		ug/kg	1.68	0.432	1	A
Dieldrin	1.08		ug/kg	1.05	0.525	1	B
4,4'-DDE	0.965	J	ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	5.34		ug/kg	3.15	1.35	1	B
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.979	1	A
Toxaphene	ND		ug/kg	31.5	8.81	1	A
cis-Chlordane	2.30		ug/kg	2.10	0.585	1	A
trans-Chlordane	2.18		ug/kg	2.10	0.554	1	B
Chlordane	ND		ug/kg	13.6	5.56	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-02**Date Collected:** 03/19/19 13:15**Client ID:** RISB4_4-6**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-04
 Client ID: RISB12_2-4
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:30
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/20/19 14:55
 Analyst: SL
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 03:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.340	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.389	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	2.77		ug/kg	1.08	0.542	1	A
4,4'-DDE	4.58		ug/kg	1.73	0.401	1	B
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	25.1		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.410	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	5.15		ug/kg	2.17	0.604	1	A
trans-Chlordane	4.16	IP	ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-04**Date Collected:** 03/19/19 13:30**Client ID:** RISB12_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	132		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-05
Client ID: RISB12_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:40
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/24/19 15:28
Analyst: SL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

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	0.879	0.394	1	B
Aldrin	ND		ug/kg	1.76	0.619	1	A
Heptachlor epoxide	ND	IP	ug/kg	3.30	0.989	1	B
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.769	1	A
Endrin ketone	ND		ug/kg	1.76	0.453	1	A
Dieldrin	5.17		ug/kg	1.10	0.549	1	A
4,4'-DDE	7.48		ug/kg	1.76	0.406	1	A
4,4'-DDD	2.03	IP	ug/kg	1.76	0.627	1	A
4,4'-DDT	56.9		ug/kg	3.30	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	0.349	1	A
Methoxychlor	ND		ug/kg	3.30	1.02	1	A
Toxaphene	ND		ug/kg	33.0	9.23	1	A
cis-Chlordane	29.7		ug/kg	2.20	0.612	1	B
trans-Chlordane	34.4		ug/kg	2.20	0.580	1	B
Chlordane	206		ug/kg	14.3	5.82	1	B

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-05

Date Collected: 03/19/19 13:40

Client ID: RISB12_4-6

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-07
Client ID: RISB3_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/20/19 15:08
Analyst: SL
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.656	1	A
Heptachlor	ND		ug/kg	0.864	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.609	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.973	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	ND		ug/kg	1.73	0.400	1	A
4,4'-DDD	ND		ug/kg	1.73	0.617	1	A
4,4'-DDT	ND		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.578	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.08	1	A
cis-Chlordane	ND		ug/kg	2.16	0.602	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.73	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-07

Date Collected: 03/19/19 14:05

Client ID: RISB3_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	120		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-10
Client ID: EB01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 03/23/19 14:57
Analyst: SL

Extraction Method: EPA 3510C
Extraction Date: 03/21/19 19:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-10**Date Collected:** 03/19/19 14:30**Client ID:** EB01_190319**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	31		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	33		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-11
Client ID: RISB2_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/20/19 15:20
Analyst: SL
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.738	0.330	1	A
Alpha-BHC	ND		ug/kg	0.738	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.672	1	A
Heptachlor	ND		ug/kg	0.886	0.397	1	A
Aldrin	ND		ug/kg	1.77	0.624	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.997	1	A
Endrin	ND		ug/kg	0.738	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.775	1	A
Endrin ketone	ND		ug/kg	1.77	0.456	1	A
Dieldrin	ND		ug/kg	1.11	0.554	1	A
4,4'-DDE	ND		ug/kg	1.77	0.410	1	A
4,4'-DDD	ND		ug/kg	1.77	0.632	1	A
4,4'-DDT	ND		ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.592	1	A
Endosulfan sulfate	ND		ug/kg	0.738	0.351	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.30	1	A
cis-Chlordane	ND		ug/kg	2.21	0.617	1	A
trans-Chlordane	ND		ug/kg	2.21	0.585	1	A
Chlordane	ND		ug/kg	14.4	5.87	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-11**Date Collected:** 03/19/19 14:50**Client ID:** RISB2_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	124		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	128		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-14
Client ID: FD01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/20/19 15:33
Analyst: SL
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.746	0.334	1	A
Alpha-BHC	ND		ug/kg	0.746	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.679	1	A
Heptachlor	ND		ug/kg	0.895	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.746	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.560	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.639	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.40	1	A
cis-Chlordane	ND		ug/kg	2.24	0.624	1	A
trans-Chlordane	ND		ug/kg	2.24	0.591	1	A
Chlordane	ND		ug/kg	14.6	5.93	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-14

Date Collected: 03/19/19 00:00

Client ID: FD01_190319

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	130		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	139		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-15
Client ID: RISB9_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/20/19 14:04
Analyst: SL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.695	0.311	1	A
Alpha-BHC	ND		ug/kg	0.695	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.633	1	A
Heptachlor	ND		ug/kg	0.834	0.374	1	A
Aldrin	ND		ug/kg	1.67	0.588	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.939	1	A
Endrin	ND		ug/kg	0.695	0.285	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.730	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.595	1	A
4,4'-DDT	ND		ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.394	1	A
Endosulfan II	ND		ug/kg	1.67	0.558	1	A
Endosulfan sulfate	ND		ug/kg	0.695	0.331	1	A
Methoxychlor	ND		ug/kg	3.13	0.974	1	A
Toxaphene	ND		ug/kg	31.3	8.76	1	A
cis-Chlordane	ND		ug/kg	2.09	0.581	1	A
trans-Chlordane	ND		ug/kg	2.09	0.551	1	A
Chlordane	ND		ug/kg	13.6	5.53	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS****Lab ID:** L1910853-15**Date Collected:** 03/19/19 16:10**Client ID:** RISB9_2-4**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	124		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-18
Client ID: RISB7_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/20/19 15:46
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.692	0.309	1	A
Alpha-BHC	ND		ug/kg	0.692	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.630	1	A
Heptachlor	ND		ug/kg	0.830	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.585	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.934	1	A
Endrin	ND		ug/kg	0.692	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	0.479	JP	ug/kg	1.66	0.384	1	B
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	5.07		ug/kg	3.11	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.555	1	A
Endosulfan sulfate	ND		ug/kg	0.692	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.969	1	A
Toxaphene	ND		ug/kg	31.1	8.72	1	A
cis-Chlordane	ND		ug/kg	2.08	0.578	1	A
trans-Chlordane	ND		ug/kg	2.08	0.548	1	A
Chlordane	ND		ug/kg	13.5	5.50	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-18

Date Collected: 03/19/19 16:35

Client ID: RISB7_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	111		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-19 D
Client ID: RISB7_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:45
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/24/19 15:41
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.68	1.70	5	A
Lindane	ND		ug/kg	3.62	1.62	5	A
Alpha-BHC	ND		ug/kg	3.62	1.03	5	A
Beta-BHC	ND		ug/kg	8.68	3.29	5	A
Heptachlor	ND		ug/kg	4.34	1.95	5	A
Aldrin	ND		ug/kg	8.68	3.06	5	A
Heptachlor epoxide	ND		ug/kg	16.3	4.88	5	A
Endrin	ND		ug/kg	3.62	1.48	5	A
Endrin aldehyde	ND		ug/kg	10.8	3.80	5	A
Endrin ketone	ND		ug/kg	8.68	2.24	5	A
Dieldrin	ND		ug/kg	5.43	2.71	5	A
4,4'-DDE	ND		ug/kg	8.68	2.01	5	A
4,4'-DDD	ND		ug/kg	8.68	3.10	5	B
4,4'-DDT	ND		ug/kg	16.3	6.98	5	B
Endosulfan I	ND		ug/kg	8.68	2.05	5	A
Endosulfan II	ND		ug/kg	8.68	2.90	5	A
Endosulfan sulfate	ND		ug/kg	3.62	1.72	5	A
Methoxychlor	ND		ug/kg	16.3	5.06	5	A
Toxaphene	ND		ug/kg	163	45.6	5	A
cis-Chlordane	ND		ug/kg	10.8	3.02	5	A
trans-Chlordane	2.97	J	ug/kg	10.8	2.86	5	B
Chlordane	ND		ug/kg	70.6	28.8	5	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-19 D

Date Collected: 03/19/19 16:45

Client ID: RISB7_4-6

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 03/20/19 13:26
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/20/19 03:21
Cleanup Method: EPA 3620B
Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217411-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.631	0.282	A
Alpha-BHC	ND		ug/kg	0.631	0.179	A
Beta-BHC	ND		ug/kg	1.52	0.574	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.533	A
Heptachlor epoxide	ND		ug/kg	2.84	0.852	A
Endrin	ND		ug/kg	0.631	0.259	A
Endrin aldehyde	ND		ug/kg	1.89	0.663	A
Endrin ketone	ND		ug/kg	1.52	0.390	A
Dieldrin	ND		ug/kg	0.947	0.473	A
4,4'-DDE	ND		ug/kg	1.52	0.350	A
4,4'-DDD	ND		ug/kg	1.52	0.540	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.506	A
Endosulfan sulfate	ND		ug/kg	0.631	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.884	A
Toxaphene	ND		ug/kg	28.4	7.95	A
cis-Chlordane	ND		ug/kg	1.89	0.528	A
trans-Chlordane	ND		ug/kg	1.89	0.500	A
Chlordane	ND		ug/kg	12.3	5.02	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/20/19 13:26
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/20/19 03:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217411-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	129		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/23/19 12:50
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 03/21/19 07:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1217898-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/23/19 12:50
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 03/21/19 07:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 10 Batch: WG1217898-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/24/19 14:38
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,05,19 Batch: WG1218803-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.994	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.663	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.35	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,05,19 Batch: WG1218803-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217411-2 WG1217411-3									
Delta-BHC	95		95		30-150	0		30	A
Lindane	92		92		30-150	0		30	A
Alpha-BHC	94		94		30-150	0		30	A
Beta-BHC	106		108		30-150	2		30	A
Heptachlor	99		110		30-150	11		30	A
Aldrin	87		87		30-150	0		30	A
Heptachlor epoxide	104		104		30-150	0		30	A
Endrin	105		103		30-150	2		30	A
Endrin aldehyde	72		73		30-150	1		30	A
Endrin ketone	91		95		30-150	4		30	A
Dieldrin	96		95		30-150	1		30	A
4,4'-DDE	86		86		30-150	0		30	A
4,4'-DDD	93		92		30-150	1		30	A
4,4'-DDT	98		97		30-150	1		30	A
Endosulfan I	87		86		30-150	1		30	A
Endosulfan II	93		92		30-150	1		30	A
Endosulfan sulfate	79		86		30-150	8		30	A
Methoxychlor	91		93		30-150	2		30	A
cis-Chlordane	75		81		30-150	8		30	A
trans-Chlordane	76		75		30-150	1		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217411-2 WG1217411-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		94		30-150	B
Decachlorobiphenyl	116		114		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		97		30-150	A
Decachlorobiphenyl	122		119		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1217898-2 WG1217898-3									
Delta-BHC	63		41		30-150	42	Q	20	A
Lindane	75		51		30-150	37	Q	20	A
Alpha-BHC	76		53		30-150	37	Q	20	A
Beta-BHC	70		50		30-150	34	Q	20	A
Heptachlor	72		50		30-150	35	Q	20	A
Aldrin	73		51		30-150	36	Q	20	A
Heptachlor epoxide	75		52		30-150	36	Q	20	A
Endrin	77		53		30-150	37	Q	20	A
Endrin aldehyde	65		44		30-150	39	Q	20	A
Endrin ketone	77		53		30-150	37	Q	20	A
Dieldrin	78		54		30-150	37	Q	20	A
4,4'-DDE	72		50		30-150	36	Q	20	A
4,4'-DDD	71		49		30-150	37	Q	20	A
4,4'-DDT	78		53		30-150	38	Q	20	A
Endosulfan I	68		48		30-150	35	Q	20	A
Endosulfan II	71		49		30-150	36	Q	20	A
Endosulfan sulfate	71		47		30-150	40	Q	20	A
Methoxychlor	71		50		30-150	36	Q	20	A
cis-Chlordane	66		47		30-150	34	Q	20	A
trans-Chlordane	67		48		30-150	33	Q	20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 10 Batch: WG1217898-2 WG1217898-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		46		30-150	A
Decachlorobiphenyl	58		40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		45		30-150	B
Decachlorobiphenyl	56		39		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,05,19 Batch: WG1218803-2 WG1218803-3									
Delta-BHC	82		76		30-150	8		30	A
Lindane	82		76		30-150	8		30	A
Alpha-BHC	85		79		30-150	7		30	A
Beta-BHC	75		70		30-150	7		30	A
Heptachlor	81		75		30-150	8		30	A
Aldrin	80		73		30-150	9		30	A
Heptachlor epoxide	82		75		30-150	9		30	A
Endrin	83		77		30-150	8		30	A
Endrin aldehyde	60		56		30-150	7		30	A
Endrin ketone	68		63		30-150	8		30	A
Dieldrin	84		78		30-150	7		30	A
4,4'-DDE	78		72		30-150	8		30	A
4,4'-DDD	78		72		30-150	8		30	A
4,4'-DDT	86		80		30-150	7		30	A
Endosulfan I	74		68		30-150	8		30	A
Endosulfan II	72		68		30-150	6		30	A
Endosulfan sulfate	53		47		30-150	12		30	A
Methoxychlor	74		67		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	64		59		30-150	8		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,05,19 Batch: WG1218803-2 WG1218803-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150	B
Decachlorobiphenyl	88		81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		75		30-150	A
Decachlorobiphenyl	89		84		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

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 Associated sample(s): 01,04,07,11,14-15,18 QC Batch ID: WG1217411-4 WG1217411-5 QC Sample: L1910853-15 Client ID: RISB9_2-4													
Delta-BHC	ND	33.8	31.4	93		35.5	101		30-150	12		50	A
Lindane	ND	33.8	30.4	90		34.3	98		30-150	12		50	A
Alpha-BHC	ND	33.8	31.7	94		35.7	102		30-150	12		50	A
Beta-BHC	ND	33.8	33.8	100		38.7	110		30-150	14		50	A
Heptachlor	ND	33.8	33.0	98		37.4	106		30-150	13		50	A
Aldrin	ND	33.8	29.6	88		34.8	99		30-150	16		50	A
Heptachlor epoxide	ND	33.8	35.3	104		41.3	118		30-150	16		50	A
Endrin	ND	33.8	36.1	107		39.9	114		30-150	10		50	A
Endrin aldehyde	ND	33.8	26.7	79		29.4	84		30-150	10		50	A
Endrin ketone	ND	33.8	31.0	92		35.1	100		30-150	12		50	A
Dieldrin	ND	33.8	32.8	97		37.8	108		30-150	14		50	A
4,4'-DDE	ND	33.8	27.3	81		34.8	99		30-150	24		50	A
4,4'-DDD	ND	33.8	31.1	92		35.8	102		30-150	14		50	A
4,4'-DDT	ND	33.8	36.3	107		37.4	106		30-150	3		50	A
Endosulfan I	ND	33.8	30.6	91		34.3	98		30-150	11		50	A
Endosulfan II	ND	33.8	30.8	91		35.2	100		30-150	13		50	A
Endosulfan sulfate	ND	33.8	26.5	78		31.5	90		30-150	17		50	A
Methoxychlor	ND	33.8	33.6	99		36.8	105		30-150	9		50	A
cis-Chlordane	ND	33.8	25.4	75		31.9	91		30-150	23		50	A
trans-Chlordane	ND	33.8	22.5	67		28.8	82		30-150	25		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910853**Report Date:** 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217411-4 WG1217411-5 QC Sample: L1910853-15 Client ID: RISB9_2-4

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		95		30-150	B
Decachlorobiphenyl	107		117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		101		30-150	A
Decachlorobiphenyl	108		124		30-150	A

METALS

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-01

Date Collected: 03/19/19 13:10

Client ID: RISB4_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3990		mg/kg	8.49	2.29	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.24	0.323	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Arsenic, Total	2.60		mg/kg	0.849	0.177	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Barium, Total	28.5		mg/kg	0.849	0.148	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Beryllium, Total	0.212	J	mg/kg	0.424	0.028	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Cadmium, Total	0.187	J	mg/kg	0.849	0.083	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Calcium, Total	985		mg/kg	8.49	2.97	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Chromium, Total	5.26		mg/kg	0.849	0.082	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Cobalt, Total	3.69		mg/kg	1.70	0.141	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Copper, Total	8.70		mg/kg	0.849	0.219	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Iron, Total	9870		mg/kg	4.24	0.767	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Lead, Total	16.8		mg/kg	4.24	0.228	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Magnesium, Total	1280		mg/kg	8.49	1.31	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Manganese, Total	381		mg/kg	0.849	0.135	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Mercury, Total	0.044	J	mg/kg	0.068	0.014	1	03/20/19 08:00	03/20/19 14:20	EPA 7471B	1,7471B	GD
Nickel, Total	6.59		mg/kg	2.12	0.206	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Potassium, Total	426		mg/kg	212	12.2	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.70	0.219	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.849	0.240	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Sodium, Total	38.5	J	mg/kg	170	2.67	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Thallium, Total	0.416	J	mg/kg	1.70	0.267	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Vanadium, Total	10.4		mg/kg	0.849	0.172	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB
Zinc, Total	28.1		mg/kg	4.24	0.249	2	03/20/19 19:40	03/20/19 22:10	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-04

Date Collected: 03/19/19 13:30

Client ID: RISB12_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5320		mg/kg	8.55	2.31	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.27	0.325	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Arsenic, Total	3.75		mg/kg	0.855	0.178	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Barium, Total	69.0		mg/kg	0.855	0.149	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Beryllium, Total	0.256	J	mg/kg	0.427	0.028	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Cadmium, Total	0.325	J	mg/kg	0.855	0.084	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Calcium, Total	2090		mg/kg	8.55	2.99	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Chromium, Total	7.17		mg/kg	0.855	0.082	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Cobalt, Total	3.67		mg/kg	1.71	0.142	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Copper, Total	24.9		mg/kg	0.855	0.220	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Iron, Total	10400		mg/kg	4.27	0.772	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Lead, Total	124		mg/kg	4.27	0.229	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Magnesium, Total	1350		mg/kg	8.55	1.32	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Manganese, Total	214		mg/kg	0.855	0.136	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Mercury, Total	0.679		mg/kg	0.070	0.015	1	03/20/19 08:00	03/20/19 14:21	EPA 7471B	1,7471B	GD
Nickel, Total	7.65		mg/kg	2.14	0.207	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Potassium, Total	332		mg/kg	214	12.3	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Selenium, Total	0.316	J	mg/kg	1.71	0.220	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.855	0.242	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Sodium, Total	47.8	J	mg/kg	171	2.69	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.71	0.269	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Vanadium, Total	12.8		mg/kg	0.855	0.174	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB
Zinc, Total	111		mg/kg	4.27	0.250	2	03/20/19 19:40	03/20/19 22:14	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-05

Date Collected: 03/19/19 13:40

Client ID: RISB12_4-6

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5030		mg/kg	8.54	2.30	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Antimony, Total	0.683	J	mg/kg	4.27	0.324	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Arsenic, Total	6.32		mg/kg	0.854	0.178	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Barium, Total	60.6		mg/kg	0.854	0.148	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Beryllium, Total	0.282	J	mg/kg	0.427	0.028	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Cadmium, Total	0.495	J	mg/kg	0.854	0.084	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Calcium, Total	3640		mg/kg	8.54	2.99	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Chromium, Total	6.25		mg/kg	0.854	0.082	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Cobalt, Total	3.67		mg/kg	1.71	0.142	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Copper, Total	15.6		mg/kg	0.854	0.220	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Iron, Total	10400		mg/kg	4.27	0.771	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Lead, Total	129		mg/kg	4.27	0.229	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Magnesium, Total	1460		mg/kg	8.54	1.31	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Manganese, Total	247		mg/kg	0.854	0.136	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Mercury, Total	0.427		mg/kg	0.070	0.015	1	03/23/19 06:10	03/25/19 11:02	EPA 7471B	1,7471B	GD
Nickel, Total	8.61		mg/kg	2.13	0.206	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Potassium, Total	384		mg/kg	213	12.3	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.71	0.220	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.854	0.242	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Sodium, Total	184		mg/kg	171	2.69	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.71	0.269	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Vanadium, Total	12.6		mg/kg	0.854	0.173	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS
Zinc, Total	142		mg/kg	4.27	0.250	2	03/23/19 09:20	03/25/19 13:28	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-07

Date Collected: 03/19/19 14:05

Client ID: RISB3_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3960		mg/kg	8.19	2.21	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.10	0.311	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Arsenic, Total	2.15		mg/kg	0.819	0.170	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Barium, Total	9.34		mg/kg	0.819	0.142	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Beryllium, Total	0.180	J	mg/kg	0.410	0.027	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Cadmium, Total	0.139	J	mg/kg	0.819	0.080	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Calcium, Total	504		mg/kg	8.19	2.87	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Chromium, Total	4.66		mg/kg	0.819	0.079	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Cobalt, Total	3.10		mg/kg	1.64	0.136	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Copper, Total	6.85		mg/kg	0.819	0.211	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Iron, Total	8950		mg/kg	4.10	0.740	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Lead, Total	2.67	J	mg/kg	4.10	0.220	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Magnesium, Total	1230		mg/kg	8.19	1.26	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Manganese, Total	182		mg/kg	0.819	0.130	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	03/20/19 08:00	03/20/19 14:23	EPA 7471B	1,7471B	GD
Nickel, Total	6.14		mg/kg	2.05	0.198	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Potassium, Total	336		mg/kg	205	11.8	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.64	0.211	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.819	0.232	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Sodium, Total	22.6	J	mg/kg	164	2.58	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.64	0.258	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Vanadium, Total	9.16		mg/kg	0.819	0.166	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB
Zinc, Total	18.1		mg/kg	4.10	0.240	2	03/20/19 19:40	03/20/19 22:19	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-10

Date Collected: 03/19/19 14:30

Client ID: EB01_190319

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0612		mg/l	0.0100	0.00327	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Antimony, Total	0.00073	J	mg/l	0.00400	0.00042	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Barium, Total	0.00098		mg/l	0.00050	0.00017	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Calcium, Total	0.226		mg/l	0.100	0.0394	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Chromium, Total	0.00070	J	mg/l	0.00100	0.00017	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Copper, Total	0.00409		mg/l	0.00100	0.00038	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Iron, Total	0.158		mg/l	0.0500	0.0191	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Lead, Total	0.00113		mg/l	0.00100	0.00034	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Magnesium, Total	0.0411	J	mg/l	0.0700	0.0242	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Manganese, Total	0.00405		mg/l	0.00100	0.00044	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/22/19 14:20	03/25/19 18:09	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Potassium, Total	0.0676	J	mg/l	0.100	0.0309	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Sodium, Total	0.254		mg/l	0.100	0.0293	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM
Zinc, Total	0.00372	J	mg/l	0.01000	0.00341	1	03/20/19 18:36	03/21/19 16:58	EPA 3005A	1,6020B	AM



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-11

Date Collected: 03/19/19 14:50

Client ID: RISB2_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5360		mg/kg	8.54	2.31	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.27	0.324	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Arsenic, Total	2.79		mg/kg	0.854	0.178	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Barium, Total	32.7		mg/kg	0.854	0.149	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Beryllium, Total	0.248	J	mg/kg	0.427	0.028	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Cadmium, Total	0.162	J	mg/kg	0.854	0.084	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Calcium, Total	4520		mg/kg	8.54	2.99	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Chromium, Total	5.99		mg/kg	0.854	0.082	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Cobalt, Total	3.06		mg/kg	1.71	0.142	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Copper, Total	9.74		mg/kg	0.854	0.220	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Iron, Total	9790		mg/kg	4.27	0.771	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Lead, Total	23.8		mg/kg	4.27	0.229	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Magnesium, Total	1610		mg/kg	8.54	1.32	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Manganese, Total	359		mg/kg	0.854	0.136	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Mercury, Total	0.142		mg/kg	0.072	0.015	1	03/20/19 08:00	03/20/19 14:31	EPA 7471B	1,7471B	GD
Nickel, Total	5.68		mg/kg	2.14	0.207	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Potassium, Total	341		mg/kg	214	12.3	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Selenium, Total	0.393	J	mg/kg	1.71	0.220	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.854	0.242	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Sodium, Total	56.0	J	mg/kg	171	2.69	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Thallium, Total	0.342	J	mg/kg	1.71	0.269	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Vanadium, Total	11.3		mg/kg	0.854	0.173	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB
Zinc, Total	30.5		mg/kg	4.27	0.250	2	03/20/19 19:40	03/20/19 22:23	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-14

Date Collected: 03/19/19 00:00

Client ID: FD01_190319

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5900		mg/kg	8.98	2.42	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.49	0.341	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Arsenic, Total	2.95		mg/kg	0.898	0.187	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Barium, Total	41.8		mg/kg	0.898	0.156	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Beryllium, Total	0.251	J	mg/kg	0.449	0.030	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Cadmium, Total	0.180	J	mg/kg	0.898	0.088	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Calcium, Total	7860		mg/kg	8.98	3.14	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Chromium, Total	6.79		mg/kg	0.898	0.086	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Cobalt, Total	3.40		mg/kg	1.80	0.149	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Copper, Total	11.1		mg/kg	0.898	0.232	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Iron, Total	10200		mg/kg	4.49	0.811	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Lead, Total	29.1		mg/kg	4.49	0.241	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Magnesium, Total	1740		mg/kg	8.98	1.38	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Manganese, Total	367		mg/kg	0.898	0.143	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Mercury, Total	0.170		mg/kg	0.071	0.015	1	03/20/19 08:00	03/20/19 14:33	EPA 7471B	1,7471B	GD
Nickel, Total	6.17		mg/kg	2.24	0.217	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Potassium, Total	366		mg/kg	224	12.9	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Selenium, Total	0.305	J	mg/kg	1.80	0.232	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.898	0.254	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Sodium, Total	79.8	J	mg/kg	180	2.83	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Thallium, Total	0.341	J	mg/kg	1.80	0.283	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Vanadium, Total	12.4		mg/kg	0.898	0.182	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB
Zinc, Total	38.9		mg/kg	4.49	0.263	2	03/20/19 19:40	03/20/19 22:28	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-15

Date Collected: 03/19/19 16:10

Client ID: RISB9_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5060		mg/kg	7.99	2.16	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.00	0.304	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Arsenic, Total	2.44		mg/kg	0.799	0.166	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Barium, Total	31.4		mg/kg	0.799	0.139	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Beryllium, Total	0.184	J	mg/kg	0.400	0.026	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Cadmium, Total	0.232	J	mg/kg	0.799	0.078	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Calcium, Total	13900		mg/kg	7.99	2.80	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Chromium, Total	7.13		mg/kg	0.799	0.077	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Cobalt, Total	3.63		mg/kg	1.60	0.133	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Copper, Total	8.81		mg/kg	0.799	0.206	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Iron, Total	9960		mg/kg	4.00	0.722	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Lead, Total	84.1		mg/kg	4.00	0.214	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Magnesium, Total	2040		mg/kg	7.99	1.23	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Manganese, Total	265		mg/kg	0.799	0.127	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Mercury, Total	0.122		mg/kg	0.067	0.014	1	03/20/19 08:00	03/20/19 12:47	EPA 7471B	1,7471B	GD
Nickel, Total	7.06		mg/kg	2.00	0.193	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Potassium, Total	646		mg/kg	200	11.5	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Selenium, Total	0.368	J	mg/kg	1.60	0.206	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.799	0.226	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Sodium, Total	128	J	mg/kg	160	2.52	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.60	0.252	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Vanadium, Total	10.6		mg/kg	0.799	0.162	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB
Zinc, Total	56.8		mg/kg	4.00	0.234	2	03/20/19 19:40	03/20/19 21:24	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-16

Date Collected: 03/19/19 16:15

Client ID: RISB9_4-6

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3760		mg/kg	8.02	2.16	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Antimony, Total	0.425	J	mg/kg	4.01	0.304	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Arsenic, Total	2.80		mg/kg	0.802	0.167	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Barium, Total	18.1		mg/kg	0.802	0.139	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Beryllium, Total	0.232	J	mg/kg	0.401	0.026	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Cadmium, Total	0.224	J	mg/kg	0.802	0.079	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Calcium, Total	3050		mg/kg	8.02	2.80	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Chromium, Total	5.15		mg/kg	0.802	0.077	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Cobalt, Total	3.16		mg/kg	1.60	0.133	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Copper, Total	8.71		mg/kg	0.802	0.207	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Iron, Total	8760		mg/kg	4.01	0.724	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Lead, Total	29.9		mg/kg	4.01	0.215	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Magnesium, Total	1470		mg/kg	8.02	1.23	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Manganese, Total	171		mg/kg	0.802	0.127	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Mercury, Total	0.022	J	mg/kg	0.068	0.014	1	03/23/19 06:10	03/25/19 11:10	EPA 7471B	1,7471B	GD
Nickel, Total	7.32		mg/kg	2.00	0.194	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Potassium, Total	301		mg/kg	200	11.5	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.60	0.207	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.802	0.227	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Sodium, Total	60.6	J	mg/kg	160	2.52	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.60	0.252	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Vanadium, Total	8.55		mg/kg	0.802	0.163	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS
Zinc, Total	32.2		mg/kg	4.01	0.235	2	03/23/19 09:20	03/25/19 13:33	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-18

Date Collected: 03/19/19 16:35

Client ID: RISB7_2-4

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	5630		mg/kg	8.37	2.26	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.18	0.318	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Arsenic, Total	4.02		mg/kg	0.837	0.174	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Barium, Total	51.5		mg/kg	0.837	0.146	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Beryllium, Total	0.276	J	mg/kg	0.418	0.028	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Cadmium, Total	0.326	J	mg/kg	0.837	0.082	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Calcium, Total	7490		mg/kg	8.37	2.93	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Chromium, Total	8.30		mg/kg	0.837	0.080	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Cobalt, Total	3.88		mg/kg	1.67	0.139	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Copper, Total	14.6		mg/kg	0.837	0.216	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Iron, Total	11100		mg/kg	4.18	0.756	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Lead, Total	127		mg/kg	4.18	0.224	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Magnesium, Total	2710		mg/kg	8.37	1.29	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Manganese, Total	222		mg/kg	0.837	0.133	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Mercury, Total	0.842		mg/kg	0.070	0.015	1	03/20/19 08:00	03/20/19 14:35	EPA 7471B	1,7471B	GD
Nickel, Total	8.60		mg/kg	2.09	0.202	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Potassium, Total	422		mg/kg	209	12.0	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Selenium, Total	0.418	J	mg/kg	1.67	0.216	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Silver, Total	1.03		mg/kg	0.837	0.237	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Sodium, Total	129	J	mg/kg	167	2.64	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.67	0.264	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Vanadium, Total	12.2		mg/kg	0.837	0.170	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB
Zinc, Total	78.8		mg/kg	4.18	0.245	2	03/20/19 19:40	03/20/19 22:32	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**SAMPLE RESULTS**

Lab ID: L1910853-19

Date Collected: 03/19/19 16:45

Client ID: RISB7_4-6

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	6600		mg/kg	8.48	2.29	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Antimony, Total	0.712	J	mg/kg	4.24	0.322	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Arsenic, Total	3.66		mg/kg	0.848	0.176	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Barium, Total	49.5		mg/kg	0.848	0.148	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Beryllium, Total	0.322	J	mg/kg	0.424	0.028	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Cadmium, Total	0.407	J	mg/kg	0.848	0.083	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Calcium, Total	18900		mg/kg	8.48	2.97	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Chromium, Total	10.2		mg/kg	0.848	0.081	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Cobalt, Total	4.32		mg/kg	1.70	0.141	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Copper, Total	21.0		mg/kg	0.848	0.219	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Iron, Total	11700		mg/kg	4.24	0.766	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Lead, Total	240		mg/kg	4.24	0.227	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Magnesium, Total	2970		mg/kg	8.48	1.31	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Manganese, Total	271		mg/kg	0.848	0.135	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Mercury, Total	1.19		mg/kg	0.070	0.015	1	03/23/19 06:10	03/25/19 11:12	EPA 7471B	1,7471B	GD
Nickel, Total	10.6		mg/kg	2.12	0.205	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Potassium, Total	446		mg/kg	212	12.2	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Selenium, Total	0.602	J	mg/kg	1.70	0.219	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.848	0.240	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Sodium, Total	299		mg/kg	170	2.67	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.70	0.267	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Vanadium, Total	13.9		mg/kg	0.848	0.172	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS
Zinc, Total	86.6		mg/kg	4.24	0.248	2	03/23/19 09:20	03/25/19 13:37	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

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): 01,04,07,11,14-15,18 Batch: WG1217459-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/20/19 08:00	03/20/19 12:43	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 10 Batch: WG1217743-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Antimony, Total	0.00063	J	mg/l	0.00400	0.00042	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00050	0.00014	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	03/20/19 18:36	03/21/19 14:26	1,6020B	AM



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217750-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Antimony, Total	ND	mg/kg	2.00	0.152	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Arsenic, Total	ND	mg/kg	0.400	0.083	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Barium, Total	ND	mg/kg	0.400	0.070	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Beryllium, Total	ND	mg/kg	0.200	0.013	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Cadmium, Total	ND	mg/kg	0.400	0.039	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Calcium, Total	ND	mg/kg	4.00	1.40	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Chromium, Total	ND	mg/kg	0.400	0.038	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Cobalt, Total	ND	mg/kg	0.800	0.066	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Copper, Total	ND	mg/kg	0.400	0.103	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Iron, Total	ND	mg/kg	2.00	0.361	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Magnesium, Total	ND	mg/kg	4.00	0.616	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Manganese, Total	ND	mg/kg	0.400	0.064	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Nickel, Total	ND	mg/kg	1.00	0.097	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Potassium, Total	ND	mg/kg	100	5.76	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Selenium, Total	ND	mg/kg	0.800	0.103	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Sodium, Total	ND	mg/kg	80.0	1.26	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Thallium, Total	ND	mg/kg	0.800	0.126	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Vanadium, Total	ND	mg/kg	0.400	0.081	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	03/20/19 19:40	03/20/19 21:15	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

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): 10 Batch: WG1218583-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/22/19 14:20	03/25/19 17:45	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,16,19 Batch: WG1218780-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/23/19 06:10	03/25/19 10:57	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,16,19 Batch: WG1218817-1										
Aluminum, Total	2.14	J	mg/kg	4.00	1.08	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Calcium, Total	18.0		mg/kg	4.00	1.40	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Chromium, Total	0.072	J	mg/kg	0.400	0.038	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Iron, Total	4.30		mg/kg	2.00	0.361	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Magnesium, Total	2.90	J	mg/kg	4.00	0.616	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Manganese, Total	1.07		mg/kg	0.400	0.064	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Potassium, Total	ND		mg/kg	100	5.76	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Sodium, Total	4.60	J	mg/kg	80.0	1.26	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/23/19 09:20	03/25/19 12:04	1,6010D	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217459-2 SRM Lot Number: D101-540								
Mercury, Total	118		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1217743-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	105	-	80-120	-	
Arsenic, Total	104	-	80-120	-	
Barium, Total	109	-	80-120	-	
Beryllium, Total	112	-	80-120	-	
Cadmium, Total	111	-	80-120	-	
Calcium, Total	98	-	80-120	-	
Chromium, Total	103	-	80-120	-	
Cobalt, Total	103	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	104	-	80-120	-	
Lead, Total	109	-	80-120	-	
Magnesium, Total	104	-	80-120	-	
Manganese, Total	106	-	80-120	-	
Nickel, Total	105	-	80-120	-	
Potassium, Total	100	-	80-120	-	
Selenium, Total	115	-	80-120	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	91	-	80-120	-	
Thallium, Total	103	-	80-120	-	
Vanadium, Total	105	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910853**Report Date:** 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1217743-2					
Zinc, Total	112	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217750-2 SRM Lot Number: D101-540					
Aluminum, Total	80	-	50-151	-	
Antimony, Total	182	-	3-196	-	
Arsenic, Total	111	-	83-117	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	97	-	83-117	-	
Cadmium, Total	103	-	83-117	-	
Calcium, Total	96	-	81-119	-	
Chromium, Total	106	-	81-118	-	
Cobalt, Total	104	-	84-116	-	
Copper, Total	105	-	83-116	-	
Iron, Total	110	-	62-138	-	
Lead, Total	107	-	83-117	-	
Magnesium, Total	93	-	76-124	-	
Manganese, Total	97	-	82-118	-	
Nickel, Total	104	-	82-117	-	
Potassium, Total	92	-	71-130	-	
Selenium, Total	108	-	79-121	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	93	-	72-127	-	
Thallium, Total	104	-	81-119	-	
Vanadium, Total	110	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910853**Report Date:** 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217750-2 SRM Lot Number: D101-540					
Zinc, Total	107	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 10 Batch: WG1218583-2					
Mercury, Total	108	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 Batch: WG1218780-2 SRM Lot Number: D101-540					
Mercury, Total	108	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 Batch: WG1218817-2 SRM Lot Number: D101-540					
Aluminum, Total	66	-	50-151	-	
Antimony, Total	127	-	3-196	-	
Arsenic, Total	104	-	83-117	-	
Barium, Total	95	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	100	-	83-117	-	
Calcium, Total	95	-	81-119	-	
Chromium, Total	99	-	81-118	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	101	-	83-116	-	
Iron, Total	86	-	62-138	-	
Lead, Total	100	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	100	-	82-118	-	
Nickel, Total	102	-	82-117	-	
Potassium, Total	83	-	71-130	-	
Selenium, Total	103	-	79-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	88	-	72-127	-	
Thallium, Total	103	-	81-119	-	
Vanadium, Total	96	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1910853**Report Date:** 03/26/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 Batch: WG1218817-2 SRM Lot Number: D101-540					
Zinc, Total	101	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217459-3 WG1217459-4 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Mercury, Total	0.122	0.134	0.236	85		0.242	88		80-120	3		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 10 QC Batch ID: WG1217743-3 QC Sample: L1910740-01 Client ID: MS Sample									
Aluminum, Total	107	4	72.4	0	Q	-	75-125	-	20
Antimony, Total	0.0322	1	0.8018	77		-	75-125	-	20
Arsenic, Total	0.1510	0.24	0.3369	77		-	75-125	-	20
Barium, Total	6.816	4	8.153	33	Q	-	75-125	-	20
Beryllium, Total	0.0047	0.1	0.08828	84		-	75-125	-	20
Cadmium, Total	0.0221	0.102	0.1112	87		-	75-125	-	20
Calcium, Total	6720	20	4850	0	Q	-	75-125	-	20
Chromium, Total	0.7848	0.4	0.8163	8	Q	-	75-125	-	20
Cobalt, Total	0.3203	1	1.238	92		-	75-125	-	20
Copper, Total	1.759	0.5	1.438	0	Q	-	75-125	-	20
Iron, Total	379	2	232	0	Q	-	75-125	-	20
Lead, Total	0.6563	1.02	1.382	71	Q	-	75-125	-	20
Magnesium, Total	564	20	374	0	Q	-	75-125	-	20
Manganese, Total	29.25	1	24.87	0	Q	-	75-125	-	20
Nickel, Total	0.5730	1	1.375	80		-	75-125	-	20
Potassium, Total	91.6	20	104	62	Q	-	75-125	-	20
Selenium, Total	0.021	0.24	0.140	50	Q	-	75-125	-	20
Silver, Total	0.0022	0.1	0.08855	86		-	75-125	-	20
Sodium, Total	690	20	771	405	Q	-	75-125	-	20
Thallium, Total	0.0025	0.24	0.2377	98		-	75-125	-	20
Vanadium, Total	0.4304	1	1.269	84		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 10 QC Batch ID: WG1217743-3 QC Sample: L1910740-01 Client ID: MS Sample									
Zinc, Total	6.224	1	5.931	0	Q	-	-	75-125	- 20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217750-3 WG1217750-4 QC Sample: L1910853-15 Client ID: RISB9_2-4									
Aluminum, Total	5060	166	5210	90	5560	296	Q 75-125	6	20
Antimony, Total	ND	41.5	34.1	82	33.9	80	75-125	1	20
Arsenic, Total	2.44	9.96	11.1	87	11.8	92	75-125	6	20
Barium, Total	31.4	166	168	82	175	85	75-125	4	20
Beryllium, Total	0.184J	4.15	3.70	89	3.78	90	75-125	2	20
Cadmium, Total	0.232J	4.23	3.95	93	3.96	92	75-125	0	20
Calcium, Total	13900	830	10300	0	Q 11400	0	Q 75-125	10	20
Chromium, Total	7.13	16.6	20.6	81	21.2	83	75-125	3	20
Cobalt, Total	3.63	41.5	37.7	82	38.4	82	75-125	2	20
Copper, Total	8.81	20.8	26.1	83	26.2	82	75-125	0	20
Iron, Total	9960	83	10300	410	Q 11400	1710	Q 75-125	10	20
Lead, Total	84.1	42.3	84.4	1	Q 118	79	75-125	33	Q 20
Magnesium, Total	2040	830	2910	105	2720	81	75-125	7	20
Manganese, Total	265	41.5	253	0	Q 285	47	Q 75-125	12	20
Nickel, Total	7.06	41.5	41.3	82	41.8	82	75-125	1	20
Potassium, Total	646	830	1230	70	Q 1390	88	75-125	12	20
Selenium, Total	0.368J	9.96	9.07	91	9.38	93	75-125	3	20
Silver, Total	ND	24.9	22.2	89	22.5	89	75-125	1	20
Sodium, Total	128J	830	858	103	894	106	75-125	4	20
Thallium, Total	ND	9.96	8.44	85	8.58	85	75-125	2	20
Vanadium, Total	10.6	41.5	46.6	87	48.1	89	75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 01,04,07,11,14-15,18 QC Batch ID: WG1217750-3 WG1217750-4 QC Sample: L1910853-15 Client ID: RISB9_2-4										
Zinc, Total	56.8	41.5	87.2	73	Q	91.2	82	75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1218583-3 QC Sample: L1910719-10 Client ID: MS Sample										
Mercury, Total	ND	0.005	0.00543	109	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 QC Batch ID: WG1218780-3 QC Sample: L1910853-05 Client ID: RISB12_4-6										
Mercury, Total	0.427	0.141	0.521	67	Q	-	-	80-120	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 05,16,19 QC Batch ID: WG1218817-3 QC Sample: L1911502-01 Client ID: MS Sample									
Aluminum, Total	13700	254	15300	630	Q	-	75-125	-	20
Antimony, Total	1.44J	63.5	45.5	72	Q	-	75-125	-	20
Arsenic, Total	8.61	15.2	22.6	92		-	75-125	-	20
Barium, Total	35.9	254	267	91		-	75-125	-	20
Beryllium, Total	0.756	6.35	6.40	89		-	75-125	-	20
Cadmium, Total	0.681J	6.47	6.49	100		-	75-125	-	20
Calcium, Total	2710	1270	4600	149	Q	-	75-125	-	20
Chromium, Total	24.6	25.4	47.5	90		-	75-125	-	20
Cobalt, Total	11.6	63.5	66.0	86		-	75-125	-	20
Copper, Total	27.0	31.7	56.6	93		-	75-125	-	20
Iron, Total	28600	127	29800	945	Q	-	75-125	-	20
Lead, Total	50.9	64.7	108	88		-	75-125	-	20
Magnesium, Total	6310	1270	7760	114		-	75-125	-	20
Manganese, Total	588	63.5	672	132	Q	-	75-125	-	20
Nickel, Total	27.1	63.5	81.8	86		-	75-125	-	20
Potassium, Total	2170	1270	3550	109		-	75-125	-	20
Selenium, Total	ND	15.2	13.0	85		-	75-125	-	20
Silver, Total	ND	38.1	35.7	94		-	75-125	-	20
Sodium, Total	3530	1270	4990	115		-	75-125	-	20
Thallium, Total	ND	15.2	11.9	78		-	75-125	-	20
Vanadium, Total	34.2	63.5	91.8	91		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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): 05,16,19 QC Batch ID: WG1218817-3 QC Sample: L1911502-01 Client ID: MS Sample									
Zinc, Total	75.1	63.5	134	93	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 10 QC Batch ID: WG1218583-4 QC Sample: L1910719-10 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 QC Batch ID: WG1218780-4 QC Sample: L1910853-05 Client ID: RISB12_4-6						
Mercury, Total	0.427	0.750	mg/kg	55	Q	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 QC Batch ID: WG1218817-4 QC Sample: L1911502-01 Client ID: DUP Sample					
Aluminum, Total	13700	13700	mg/kg	0	20
Antimony, Total	1.44J	1.38J	mg/kg	NC	20
Arsenic, Total	8.61	8.80	mg/kg	2	20
Barium, Total	35.9	36.0	mg/kg	0	20
Beryllium, Total	0.756	0.755	mg/kg	0	20
Cadmium, Total	0.681J	0.679J	mg/kg	NC	20
Calcium, Total	2710	2530	mg/kg	7	20
Chromium, Total	24.6	24.4	mg/kg	1	20
Cobalt, Total	11.6	11.9	mg/kg	3	20
Copper, Total	27.0	27.3	mg/kg	1	20
Iron, Total	28600	28700	mg/kg	0	20
Lead, Total	50.9	56.4	mg/kg	10	20
Magnesium, Total	6310	6320	mg/kg	0	20
Manganese, Total	588	588	mg/kg	0	20
Nickel, Total	27.1	27.2	mg/kg	0	20
Potassium, Total	2170	2180	mg/kg	0	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	3530	3600	mg/kg	2	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,16,19 QC Batch ID: WG1218817-4 QC Sample: L1911502-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	34.2	33.7	mg/kg	1	20
Zinc, Total	75.1	75.3	mg/kg	0	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-01
Client ID: RISB4_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/20/19 06:27	03/20/19 13:59	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-02
Client ID: RISB4_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	03/23/19 00:08	121,2540G	YA



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-04
Client ID: RISB12_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/20/19 06:27	03/20/19 14:00	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.889	0.178	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-05
Client ID: RISB12_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:40
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	03/23/19 00:08	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.896	0.179	1	03/25/19 17:00	03/26/19 10:39	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-07
Client ID: RISB3_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:05
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/20/19 06:27	03/20/19 14:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.871	0.174	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-10
Client ID: EB01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:30
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/19 01:30	03/21/19 12:28	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/19 03:00	03/20/19 03:37	1,7196A	JW



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-11
Client ID: RISB2_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 14:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.7		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/20/19 06:27	03/20/19 14:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.902	0.180	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-14
Client ID: FD01_190319
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 00:00
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/20/19 06:27	03/20/19 14:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.905	0.181	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-15
Client ID: RISB9_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:10
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	03/20/19 10:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.97	0.20	1	03/20/19 06:27	03/20/19 14:04	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.850	0.170	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-16
Client ID: RISB9_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:15
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	03/23/19 00:08	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.853	0.170	1	03/25/19 17:00	03/26/19 10:39	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-18
Client ID: RISB7_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:35
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	03/20/19 04:06	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/20/19 06:27	03/20/19 14:10	1,9010C/9012B	LH
Chromium, Hexavalent	0.365	J	mg/kg	0.884	0.177	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

SAMPLE RESULTS

Lab ID: L1910853-19
Client ID: RISB7_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:45
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	03/23/19 00:08	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.878	0.176	1	03/25/19 17:00	03/26/19 10:39	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1910853

Project Number: 16.6334

Report Date: 03/26/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1217414-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/19 03:00	03/20/19 03:36	1,7196A	JW
General Chemistry - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217440-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	03/20/19 06:27	03/20/19 14:26	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01,04,07,11,14-15,18 Batch: WG1217529-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/20/19 10:15	03/20/19 17:45	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG1217830-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/19 01:30	03/21/19 12:02	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 05,16,19 Batch: WG1219315-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/25/19 17:00	03/26/19 10:39	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1217414-2								
Chromium, Hexavalent	95		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217440-2 WG1217440-3								
Cyanide, Total	80		88		80-120	15		35
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 Batch: WG1217529-2								
Chromium, Hexavalent	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG1217830-2 WG1217830-3								
Cyanide, Total	91		87		85-115	4		20
General Chemistry - Westborough Lab Associated sample(s): 05,16,19 Batch: WG1219315-2								
Chromium, Hexavalent	93		-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1217414-4 QC Sample: L1910853-10 Client ID: EB01_190319												
Chromium, Hexavalent	ND	0.1	0.096	96		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 QC Batch ID: WG1217440-4 WG1217440-5 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Cyanide, Total	ND	10	11	100		9.9	97		75-125	11		35
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 QC Batch ID: WG1217529-4 WG1217529-5 QC Sample: L1910853-15 Client ID: RISB9_2-4												
Chromium, Hexavalent	ND	1140	1110	97		1080	103		75-125	3		20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1217830-4 WG1217830-5 QC Sample: L1910853-10 Client ID: EB01_190319												
Cyanide, Total	ND	0.2	0.176	88		0.168	84		80-120	5		20
General Chemistry - Westborough Lab Associated sample(s): 05,16,19 QC Batch ID: WG1219315-4 QC Sample: L1910853-19 Client ID: RISB7_4-6												
Chromium, Hexavalent	ND	928	955	103		-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1910853

Report Date: 03/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1217414-3 QC Sample: L1910853-10 Client ID: EB01_190319						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1217419-1 QC Sample: L1910834-01 Client ID: DUP Sample						
Solids, Total	82.8	81.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15 QC Batch ID: WG1217497-1 QC Sample: L1910853-15 Client ID: RISB9_2-4						
Solids, Total	94.1	94.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,04,07,11,14-15,18 QC Batch ID: WG1217529-7 QC Sample: L1910853-15 Client ID: RISB9_2-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,05,16,19 QC Batch ID: WG1218747-1 QC Sample: L1910853-02 Client ID: RISB4_4-6						
Solids, Total	90.7	90.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 05,16,19 QC Batch ID: WG1219315-6 QC Sample: L1910853-19 Client ID: RISB7_4-6						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal

A	Absent

B	Absent

C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-01A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-01B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-01C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-01D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910853-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1910853-01F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-01G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-02A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-02B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-02C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-02D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910853-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		HOLD-METAL(180)
L1910853-02F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8081(14),HOLD-8270(14)
L1910853-02G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-03A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-03B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-03C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-03D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		HOLD-WETCHEM()

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		HOLD-METAL(180)
L1910853-03F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-03G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-04A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-04B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-04C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-04D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910853-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1910853-04F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-04G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-05A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-05B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-05C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-05D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910853-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1910853-05F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8081(14),HOLD-8270(14)
L1910853-05G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14),HEXCR-7196(30)
L1910853-06A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-06B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-06C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-06D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		HOLD-WETCHEM()
L1910853-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		HOLD-METAL(180)
L1910853-06F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-06G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-07A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-07B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-07C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-07D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1910853-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1910853-07F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-07G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-08A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-08B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-08C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-08D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		HOLD-WETCHEM()
L1910853-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		HOLD-METAL(180)
L1910853-08F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-08G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-09A	Vial MeOH preserved	A	NA		4.2	Y	Absent		HOLD-8260HLW(14)
L1910853-09B	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-09C	Vial water preserved	A	NA		4.2	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-09D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		HOLD-WETCHEM()
L1910853-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		HOLD-METAL(180)
L1910853-09F	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-09G	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		HOLD-8270(14)
L1910853-10A	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L1910853-10B	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L1910853-10C	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-10D	Plastic 250ml unpreserved	C	7	7	3.8	Y	Absent		HEXCR-7196(1)
L1910853-10E	Plastic 250ml HNO3 preserved	C	<2	<2	3.8	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1910853-10F	Plastic 250ml NaOH preserved	C	>12	>12	3.8	Y	Absent		TCN-9010(14)
L1910853-10G	Amber 120ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8082-LVI(7)
L1910853-10H	Amber 120ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8082-LVI(7)
L1910853-10I	Amber 120ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8081(7)
L1910853-10J	Amber 120ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8081(7)
L1910853-10K	Amber 250ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1910853-10L	Amber 250ml unpreserved	C	7	7	3.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1910853-11A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-11B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-11C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-11D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1910853-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	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)
L1910853-11F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-11G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-12A	Vial MeOH preserved	B	NA		3.9	Y	Absent		HOLD-8260HLW(14)
L1910853-12B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-12C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-12D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		HOLD-WETCHEM()
L1910853-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-12F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-12G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-13A	Vial MeOH preserved	B	NA		3.9	Y	Absent		HOLD-8260HLW(14)
L1910853-13B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-13C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-13D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		HOLD-WETCHEM()
L1910853-13E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1910853-13F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-13G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-14A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-14B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-14C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-14D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1910853-14E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	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)
L1910853-14F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-14G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15A	Vial MeOH preserved	C	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-15A1	Vial MeOH preserved	C	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-15A2	Vial MeOH preserved	C	NA		3.8	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-15B	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-15B1	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-15B2	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-15C	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-15C1	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-15C2	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-15D	Plastic 2oz unpreserved for TS	C	NA		3.8	Y	Absent		TS(7)
L1910853-15D1	Plastic 2oz unpreserved for TS	C	NA		3.8	Y	Absent		TS(7)
L1910853-15D2	Plastic 2oz unpreserved for TS	C	NA		3.8	Y	Absent		TS(7)
L1910853-15E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.8	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)
L1910853-15E1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.8	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)
L1910853-15E2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.8	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)
L1910853-15F	Glass 120ml/4oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15F1	Glass 120ml/4oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15F2	Glass 120ml/4oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15G	Glass 250ml/8oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15G1	Glass 250ml/8oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-15G2	Glass 250ml/8oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-16A	Vial MeOH preserved	B	NA		3.9	Y	Absent		HOLD-8260HLW(14)
L1910853-16B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-16C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-16D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1910853-16E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	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)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-16F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14),HEXCR-7196(30)
L1910853-16G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-17A	Vial MeOH preserved	C	NA		3.8	Y	Absent		HOLD-8260HLW(14)
L1910853-17B	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-17C	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-17D	Plastic 2oz unpreserved for TS	C	NA		3.8	Y	Absent		HOLD-WETCHEM()
L1910853-17E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.8	Y	Absent		HOLD-METAL(180)
L1910853-17F	Glass 120ml/4oz unpreserved	C	NA		3.8	Y	Absent		HOLD-8270(14)
L1910853-17G	Glass 250ml/8oz unpreserved	C	NA		3.8	Y	Absent		HOLD-8270(14)
L1910853-18A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW-R2(14)
L1910853-18B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-18C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	NYTCL-8260HLW-R2(14)
L1910853-18D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1910853-18E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	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)
L1910853-18F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-18G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1910853-19A	Vial MeOH preserved	C	NA		3.8	Y	Absent		HOLD-8260HLW(14)
L1910853-19B	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-19C	Vial water preserved	C	NA		3.8	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-19D	Plastic 2oz unpreserved for TS	C	NA		3.8	Y	Absent		TS(7)
L1910853-19E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.8	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)
L1910853-19F	Glass 120ml/4oz unpreserved	C	NA		3.8	Y	Absent		NYTCL-8081(14),HOLD-8270(14)
L1910853-19G	Glass 250ml/8oz unpreserved	C	NA		3.8	Y	Absent		HOLD-8270(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No:03261916:35
Lab Number: L1910853
Report Date: 03/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1910853-20A	Vial MeOH preserved	B	NA		3.9	Y	Absent		HOLD-8260HLW(14)
L1910853-20B	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-20C	Vial water preserved	B	NA		3.9	Y	Absent	20-MAR-19 03:22	HOLD-8260HLW(14)
L1910853-20D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		HOLD-WETCHEM()
L1910853-20E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1910853-20F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-20G	Glass 250ml/8oz unpreserved	B	NA		3.9	Y	Absent		HOLD-8270(14)
L1910853-21A	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)
L1910853-21B	Vial HCl preserved	C	NA		3.8	Y	Absent		NYTCL-8260-R2(14)

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1910853**Project Number:** 16.6334**Report Date:** 03/26/19

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1910853
Report Date: 03/26/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>DA</u> 1 of 3		Date Rec'd in Lab <u>3/20/19</u>		ALPHA Job # <u>41910853</u>														
	Westborough, MA 01581 8 Walkup Dr. TEL: 508-896-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Hamilton Hill II TAT site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other														
	Client Information Client: <u>C.T. Mule Associates</u> Address: <u>50 Century Hill Dr</u> <u>Lehman NY 12110</u> Phone: <u>518-750-7400</u> Fax: <u>A.smith@ctmule.com</u> Email: <u>K.moline@ctmule.com</u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Billing Information ☐ Same as Client Info PO #		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:														
Turn-Around Time Standard ☐ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hour</u>		ANALYSIS TOL VUC + TICs TOL 5vol + TICs TOL PCB TOL Pest TOL Metals TOL Mercury Hex (Chloride, Cyanide)		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles															
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		Please specify Metals or TAL.		ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		ANALYSIS		Sample Specific Comments		Total Bottles			
10853-01		RISB4-2-4		3/19/19		1310		Soil		KC		X		X		X		48 Hour TAT		7	
-02		RISB4-4-6		1		1315				KC		X		X		X		Hold Analysis		7	
-03		RISB4-6-8		1		1320				KC		X		X		X		Hold Analysis		7	
-04		RISB12-2-4		1		1330				KC		X		X		X		48 Hour TAT		7	
-05		RISB12-4-6		1		1340				KC		X		X		X		Hold Analysis		7	
-06		RISB12-6-8		1		1350				KC		X		X		X		Hold Analysis		7	
-07		RISB3-2-4		1		1405				KC		X		X		X		48 Hour TAT		7	
-08		RISB3-4-6		1		1410				KC		X		X		X		Hold Analysis		7	
-09		RISB3-6-8		1		1420				KC		X		X		X		Hold Analysis		7	
-10		CB01-190319		↓		1430		Water		RA		X		X		X		Standard TAT		12	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		WA A A A A A FA A A A A A		Relinquished By: <u>[Signature]</u>		Date/Time <u>3/19/19 1730</u> <u>3/19/19 17:30</u>		Received By: <u>[Signature]</u>		Date/Time <u>3/19/19 17:30</u> <u>3/20/19 0110</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>5A</u> <u>2</u> of <u>3</u>		Date Rec'd in Lab <u>3/20/19</u>		ALPHA Job # <u>L19 0853</u>																																																																																																																																																											
		Project Information Project Name: <u>Hamilton Hill II TAL Site</u> Project Location: <u>Schenectady, NY</u> Project # <u>166334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #																																																																																																																																																													
Client Information Client: <u>C.T. Majo Associates</u> Address: <u>50 Century Hill Dr</u> <u>Latham, NY 12110</u> Phone: <u>518-786-7400</u> Fax: <u>A.Smith@CTMajo.com</u> Email: <u>K.Moline@CTMajo.com</u>		Project Manager: <u>Kirk Moline</u> ALPHAQuote #: Turn-Around Time Standard ☐ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hour</u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																													
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)																																																																																																																																																											
Please specify Metals or TAL.						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>TCL VOC + PC</th> <th>TCL SVOC + PC</th> <th>TCL PCB</th> <th>TCL Pest</th> <th>TAL Metals</th> <th>Ind. Mercury</th> <th>Hex. Chrom. Cycle</th> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>		TCL VOC + PC	TCL SVOC + PC	TCL PCB	TCL Pest	TAL Metals	Ind. Mercury	Hex. Chrom. Cycle	X	X	X	X	X	X	X	Total Bottles																																																																																																																																													
TCL VOC + PC	TCL SVOC + PC	TCL PCB	TCL Pest	TAL Metals	Ind. Mercury	Hex. Chrom. Cycle																																																																																																																																																													
X	X	X	X	X	X	X																																																																																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">TCL VOC + PC</th> <th rowspan="2">TCL SVOC + PC</th> <th rowspan="2">TCL PCB</th> <th rowspan="2">TCL Pest</th> <th rowspan="2">TAL Metals</th> <th rowspan="2">Ind. Mercury</th> <th rowspan="2">Hex. Chrom. Cycle</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>10853-11</td> <td>RISB2-2-4</td> <td>3/19/19</td> <td>1450</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>48 Hour TAT</td> </tr> <tr> <td>-12</td> <td>RISB2-4-6</td> <td></td> <td>1510</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> <tr> <td>-13</td> <td>RISB2-6-8</td> <td></td> <td>1520</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> <tr> <td>-14</td> <td>FPOL-19031A</td> <td></td> <td>—</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Normal TAT</td> </tr> <tr> <td>-15</td> <td>RISB9-2-4</td> <td></td> <td>1610</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>48 Hour TAT, 10% ASD</td> </tr> <tr> <td>-16</td> <td>RISB9-4-6</td> <td></td> <td>1615</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> <tr> <td>-17</td> <td>RISB9-6-8</td> <td></td> <td>1620</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> <tr> <td>-18</td> <td>RISB7-2-4</td> <td></td> <td>1635</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>48 Hour TAT</td> </tr> <tr> <td>-19</td> <td>RISB7-4-6</td> <td></td> <td>1645</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> <tr> <td>-20</td> <td>RISB7-6-8</td> <td></td> <td>1650</td> <td>Soil</td> <td>KC</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Hold Analysis</td> </tr> </tbody> </table>						ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCL VOC + PC	TCL SVOC + PC	TCL PCB	TCL Pest	TAL Metals	Ind. Mercury	Hex. Chrom. Cycle	Sample Specific Comments	Date	Time	10853-11	RISB2-2-4	3/19/19	1450	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT	-12	RISB2-4-6		1510	Soil	KC	X	X	X	X	X	X	X	Hold Analysis	-13	RISB2-6-8		1520	Soil	KC	X	X	X	X	X	X	X	Hold Analysis	-14	FPOL-19031A		—	Soil	KC	X	X	X	X	X	X	X	Normal TAT	-15	RISB9-2-4		1610	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT, 10% ASD	-16	RISB9-4-6		1615	Soil	KC	X	X	X	X	X	X	X	Hold Analysis	-17	RISB9-6-8		1620	Soil	KC	X	X	X	X	X	X	X	Hold Analysis	-18	RISB7-2-4		1635	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT	-19	RISB7-4-6		1645	Soil	KC	X	X	X	X	X	X	X	Hold Analysis	-20	RISB7-6-8		1650	Soil	KC	X	X	X	X	X	X	X	Hold Analysis		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials			TCL VOC + PC	TCL SVOC + PC											TCL PCB	TCL Pest	TAL Metals	Ind. Mercury	Hex. Chrom. Cycle	Sample Specific Comments																																																																																																																																										
		Date	Time																																																																																																																																																																
10853-11	RISB2-2-4	3/19/19	1450	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT																																																																																																																																																						
-12	RISB2-4-6		1510	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
-13	RISB2-6-8		1520	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
-14	FPOL-19031A		—	Soil	KC	X	X	X	X	X	X	X	Normal TAT																																																																																																																																																						
-15	RISB9-2-4		1610	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT, 10% ASD																																																																																																																																																						
-16	RISB9-4-6		1615	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
-17	RISB9-6-8		1620	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
-18	RISB7-2-4		1635	Soil	KC	X	X	X	X	X	X	X	48 Hour TAT																																																																																																																																																						
-19	RISB7-4-6		1645	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
-20	RISB7-6-8		1650	Soil	KC	X	X	X	X	X	X	X	Hold Analysis																																																																																																																																																						
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																																											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3/19/19 17:30</u> <u>3-19-19 17:30</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-19-19 17:30</u> <u>3/20/19 ewc</u>																																																																																																																																																													

[illegible]



ANALYTICAL REPORT

Lab Number:	L1911116
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/27/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911116-01	RISB8_4-6	SOIL	SCHENECTADY, NY	03/15/19 10:25	03/15/19
L1911116-02	RISB11_10-12	SOIL	SCHENECTADY, NY	03/15/19 12:45	03/15/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Case Narrative (continued)

Report Submission

March 27, 2019: This final report includes the results of all requested analyses.

March 22, 2019: This is a preliminary report.

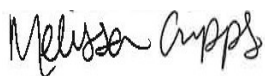
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1911116-01 and -02: 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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 03/27/19

ORGANICS

SEMIVOLATILES

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911116-01
 Client ID: RISB8_4-6
 Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:25
 Date Received: 03/15/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/22/19 08:25
 Analyst: SZ
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	63	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	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	880		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	32.	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	170	24.	1
Naphthalene	46	J	ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	100	J	ug/kg	180	64.	1
Butyl benzyl phthalate	93	J	ug/kg	180	47.	1
Di-n-butylphthalate	53	J	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	640		ug/kg	110	21.	1
Benzo(a)pyrene	740		ug/kg	150	45.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS****Lab ID:** L1911116-01**Date Collected:** 03/15/19 10:25**Client ID:** RISB8_4-6**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	730		ug/kg	110	31.	1
Benzo(k)fluoranthene	230		ug/kg	110	30.	1
Chrysene	690		ug/kg	110	19.	1
Acenaphthylene	120	J	ug/kg	150	29.	1
Anthracene	160		ug/kg	110	36.	1
Benzo(ghi)perylene	550		ug/kg	150	22.	1
Fluorene	64	J	ug/kg	180	18.	1
Phenanthrene	550		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	120		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	340		ug/kg	150	26.	1
Pyrene	870		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	77.	1
Dibenzofuran	44	J	ug/kg	180	18.	1
2-Methylnaphthalene	25	J	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	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	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Carbazole	71	J	ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	120	J	ug/kg	240	50.	1

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS****Lab ID:** L1911116-01**Date Collected:** 03/15/19 10:25**Client ID:** RISB8_4-6**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	2630	J	ug/kg			1
Unknown	166	J	ug/kg			1
Unknown PAH	159	J	ug/kg			1
Unknown PAH	391	J	ug/kg			1
Unknown	331	J	ug/kg			1
Unknown	151	J	ug/kg			1
Unknown PAH	893	J	ug/kg			1
Unknown	259	J	ug/kg			1
Unknown	280	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	69		18-120

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/21/19 23:37
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1217912-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	98		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
Acenaphthene	89		95		31-137	7		50
Hexachlorobenzene	101		109		40-140	8		50
Bis(2-chloroethyl)ether	76		80		40-140	5		50
2-Chloronaphthalene	87		94		40-140	8		50
3,3'-Dichlorobenzidine	64		64		40-140	0		50
2,4-Dinitrotoluene	97		107		40-132	10		50
2,6-Dinitrotoluene	98		108		40-140	10		50
Fluoranthene	87		95		40-140	9		50
4-Chlorophenyl phenyl ether	90		98		40-140	9		50
4-Bromophenyl phenyl ether	95		102		40-140	7		50
Bis(2-chloroisopropyl)ether	69		74		40-140	7		50
Bis(2-chloroethoxy)methane	83		90		40-117	8		50
Hexachlorobutadiene	73		79		40-140	8		50
Hexachlorocyclopentadiene	78		84		40-140	7		50
Hexachloroethane	76		81		40-140	6		50
Isophorone	82		89		40-140	8		50
Naphthalene	80		85		40-140	6		50
Nitrobenzene	83		90		40-140	8		50
NDPA/DPA	97		107		36-157	10		50
n-Nitrosodi-n-propylamine	80		85		32-121	6		50
Bis(2-ethylhexyl)phthalate	104		112		40-140	7		50
Butyl benzyl phthalate	95		102		40-140	7		50
Di-n-butylphthalate	92		96		40-140	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
Di-n-octylphthalate	104		115		40-140	10		50
Diethyl phthalate	96		106		40-140	10		50
Dimethyl phthalate	94		103		40-140	9		50
Benzo(a)anthracene	93		100		40-140	7		50
Benzo(a)pyrene	107		118		40-140	10		50
Benzo(b)fluoranthene	102		116		40-140	13		50
Benzo(k)fluoranthene	103		111		40-140	7		50
Chrysene	93		100		40-140	7		50
Acenaphthylene	92		99		40-140	7		50
Anthracene	84		90		40-140	7		50
Benzo(ghi)perylene	92		100		40-140	8		50
Fluorene	94		102		40-140	8		50
Phenanthrene	82		89		40-140	8		50
Dibenzo(a,h)anthracene	90		99		40-140	10		50
Indeno(1,2,3-cd)pyrene	91		101		40-140	10		50
Pyrene	87		95		35-142	9		50
Biphenyl	91		99		54-104	8		50
4-Chloroaniline	40		39	Q	40-140	3		50
2-Nitroaniline	107		118		47-134	10		50
3-Nitroaniline	78		77		26-129	1		50
4-Nitroaniline	114		125		41-125	9		50
Dibenzofuran	91		98		40-140	7		50
2-Methylnaphthalene	83		89		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3								
1,2,4,5-Tetrachlorobenzene	86		94		40-117	9		50
Acetophenone	81		87		14-144	7		50
2,4,6-Trichlorophenol	93		101		30-130	8		50
p-Chloro-m-cresol	95		105	Q	26-103	10		50
2-Chlorophenol	85		91		25-102	7		50
2,4-Dichlorophenol	94		101		30-130	7		50
2,4-Dimethylphenol	94		102		30-130	8		50
2-Nitrophenol	105		114		30-130	8		50
4-Nitrophenol	112		124	Q	11-114	10		50
2,4-Dinitrophenol	95		110		4-130	15		50
4,6-Dinitro-o-cresol	120		132	Q	10-130	10		50
Pentachlorophenol	98		110	Q	17-109	12		50
Phenol	82		88		26-90	7		50
2-Methylphenol	89		94		30-130.	5		50
3-Methylphenol/4-Methylphenol	90		96		30-130	6		50
2,4,5-Trichlorophenol	98		107		30-130	9		50
Carbazole	89		94		54-128	5		50
Atrazine	106		118		40-140	11		50
Benzaldehyde	71		73		40-140	3		50
Caprolactam	97		107		15-130	10		50
2,3,4,6-Tetrachlorophenol	93		103		40-140	10		50

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1217912-2 WG1217912-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		88		25-120
Phenol-d6	79		84		10-120
Nitrobenzene-d5	85		90		23-120
2-Fluorobiphenyl	84		91		30-120
2,4,6-Tribromophenol	112		120		10-136
4-Terphenyl-d14	87		93		18-120

PESTICIDES

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911116-02
Client ID: RISB11_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:45
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/25/19 10:44
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 14:57
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.945	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.735	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.525	1	A
4,4'-DDE	ND		ug/kg	1.68	0.388	1	A
4,4'-DDD	ND		ug/kg	1.68	0.599	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.561	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.980	1	A
Toxaphene	ND		ug/kg	31.5	8.82	1	A
cis-Chlordane	ND		ug/kg	2.10	0.585	1	A
trans-Chlordane	ND		ug/kg	2.10	0.554	1	A
Chlordane	ND		ug/kg	13.6	5.56	1	A

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS****Lab ID:** L1911116-02**Date Collected:** 03/15/19 12:45**Client ID:** RISB11_10-12**Date Received:** 03/15/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/24/19 14:38
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1218803-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.994	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.663	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.35	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1218803-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1218803-2 WG1218803-3									
Delta-BHC	82		76		30-150	8		30	A
Lindane	82		76		30-150	8		30	A
Alpha-BHC	85		79		30-150	7		30	A
Beta-BHC	75		70		30-150	7		30	A
Heptachlor	81		75		30-150	8		30	A
Aldrin	80		73		30-150	9		30	A
Heptachlor epoxide	82		75		30-150	9		30	A
Endrin	83		77		30-150	8		30	A
Endrin aldehyde	60		56		30-150	7		30	A
Endrin ketone	68		63		30-150	8		30	A
Dieldrin	84		78		30-150	7		30	A
4,4'-DDE	78		72		30-150	8		30	A
4,4'-DDD	78		72		30-150	8		30	A
4,4'-DDT	86		80		30-150	7		30	A
Endosulfan I	74		68		30-150	8		30	A
Endosulfan II	72		68		30-150	6		30	A
Endosulfan sulfate	53		47		30-150	12		30	A
Methoxychlor	74		67		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	64		59		30-150	8		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1218803-2 WG1218803-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150	B
Decachlorobiphenyl	88		81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		75		30-150	A
Decachlorobiphenyl	89		84		30-150	A

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911116-01

Date Collected: 03/15/19 10:25

Client ID: RISB8_4-6

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	4460		mg/kg	8.72	2.35	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Antimony, Total	0.575	J	mg/kg	4.36	0.331	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Arsenic, Total	3.44		mg/kg	0.872	0.181	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Barium, Total	136		mg/kg	0.872	0.152	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Beryllium, Total	0.253	J	mg/kg	0.436	0.029	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.872	0.085	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Calcium, Total	13300		mg/kg	8.72	3.05	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Chromium, Total	8.76		mg/kg	0.872	0.084	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Cobalt, Total	3.28		mg/kg	1.74	0.145	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Copper, Total	16.6		mg/kg	0.872	0.225	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Iron, Total	9250		mg/kg	4.36	0.787	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Lead, Total	343		mg/kg	4.36	0.234	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Magnesium, Total	1760		mg/kg	8.72	1.34	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Manganese, Total	235		mg/kg	0.872	0.139	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Mercury, Total	0.950		mg/kg	0.072	0.015	1	03/21/19 04:40	03/21/19 16:14	EPA 7471B	1,7471B	GD
Nickel, Total	6.83		mg/kg	2.18	0.211	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Potassium, Total	454		mg/kg	218	12.6	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Selenium, Total	0.436	J	mg/kg	1.74	0.225	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.872	0.247	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Sodium, Total	137	J	mg/kg	174	2.74	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.74	0.274	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Vanadium, Total	10.2		mg/kg	0.872	0.177	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC
Zinc, Total	294		mg/kg	4.36	0.255	2	03/21/19 07:40	03/21/19 14:20	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911116-02

Date Collected: 03/15/19 12:45

Client ID: RISB11_10-12

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2290		mg/kg	7.98	2.16	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	3.99	0.303	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Arsenic, Total	1.16		mg/kg	0.798	0.166	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Barium, Total	8.26		mg/kg	0.798	0.139	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Beryllium, Total	0.136	J	mg/kg	0.399	0.026	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.798	0.078	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Calcium, Total	5290		mg/kg	7.98	2.79	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Chromium, Total	3.36		mg/kg	0.798	0.077	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Cobalt, Total	2.59		mg/kg	1.60	0.132	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Copper, Total	8.19		mg/kg	0.798	0.206	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Iron, Total	6930		mg/kg	3.99	0.721	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Lead, Total	2.99	J	mg/kg	3.99	0.214	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Magnesium, Total	1260		mg/kg	7.98	1.23	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Manganese, Total	79.3		mg/kg	0.798	0.127	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/21/19 04:40	03/21/19 16:16	EPA 7471B	1,7471B	GD
Nickel, Total	5.89		mg/kg	2.00	0.193	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Potassium, Total	258		mg/kg	200	11.5	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.60	0.206	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.798	0.226	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Sodium, Total	32.1	J	mg/kg	160	2.52	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.60	0.252	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Vanadium, Total	5.94		mg/kg	0.798	0.162	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC
Zinc, Total	20.1		mg/kg	3.99	0.234	2	03/21/19 07:40	03/21/19 14:24	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

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): 01-02 Batch: WG1217834-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/21/19 04:40	03/21/19 12:51	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1217872-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/21/19 07:40	03/21/19 12:37	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Arsenic, Total	0.100	J	mg/kg	0.400	0.083	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/21/19 07:40	03/21/19 12:37	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Iron, Total	0.720	J	mg/kg	2.00	0.361	1	03/21/19 07:40	03/21/19 12:37	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Sodium, Total	1.74	J	mg/kg	80.0	1.26	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/21/19 07:40	03/21/19 10:02	1,6010D	LC

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1217834-2 SRM Lot Number: D101-540								
Mercury, Total	88		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1217872-2 SRM Lot Number: D101-540					
Aluminum, Total	60	-	50-151	-	
Antimony, Total	152	-	3-196	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	90	-	83-118	-	
Beryllium, Total	95	-	83-117	-	
Cadmium, Total	95	-	83-117	-	
Calcium, Total	91	-	81-119	-	
Chromium, Total	86	-	81-118	-	
Cobalt, Total	95	-	84-116	-	
Copper, Total	88	-	83-116	-	
Iron, Total	71	-	62-138	-	
Lead, Total	96	-	83-117	-	
Magnesium, Total	81	-	76-124	-	
Manganese, Total	89	-	82-118	-	
Nickel, Total	95	-	82-117	-	
Potassium, Total	82	-	71-130	-	
Selenium, Total	98	-	79-121	-	
Silver, Total	88	-	80-120	-	
Sodium, Total	84	-	72-127	-	
Thallium, Total	97	-	81-119	-	
Vanadium, Total	83	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1217872-2 SRM Lot Number: D101-540					
Zinc, Total	94	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

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): 01-02 QC Batch ID: WG1217834-3 QC Sample: L1910884-01 Client ID: MS Sample												
Mercury, Total	ND	0.16	0.136	85		-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

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): 01-02			QC Batch ID: WG1217872-3		QC Sample: L1909913-01		Client ID: MS Sample		
Aluminum, Total	3360	163	5060	1040	Q	-	75-125	-	20
Antimony, Total	0.569J	40.7	33.6	82		-	75-125	-	20
Arsenic, Total	2.12	9.78	10.9	90		-	75-125	-	20
Barium, Total	26.2	163	172	89		-	75-125	-	20
Beryllium, Total	0.124J	4.07	3.51	86		-	75-125	-	20
Cadmium, Total	ND	4.16	3.37	81		-	75-125	-	20
Calcium, Total	7070	815	5740	0	Q	-	75-125	-	20
Chromium, Total	8.19	16.3	22.6	88		-	75-125	-	20
Cobalt, Total	1.31	40.7	34.6	82		-	75-125	-	20
Copper, Total	16.6	20.4	34.4	87		-	75-125	-	20
Iron, Total	8880	81.5	8930	61	Q	-	75-125	-	20
Lead, Total	9.90	41.6	45.1	85		-	75-125	-	20
Magnesium, Total	1550	815	1510	0	Q	-	75-125	-	20
Manganese, Total	100	40.7	140	98		-	75-125	-	20
Nickel, Total	1.80	40.7	35.6	83		-	75-125	-	20
Potassium, Total	97.2J	815	832	102		-	75-125	-	20
Selenium, Total	0.256J	9.78	8.40	86		-	75-125	-	20
Silver, Total	ND	24.4	22.7	93		-	75-125	-	20
Sodium, Total	19.2J	815	770	94		-	75-125	-	20
Thallium, Total	ND	9.78	7.77	79		-	75-125	-	20
Vanadium, Total	14.5	40.7	50.2	88		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

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): 01-02 QC Batch ID: WG1217872-3 QC Sample: L1909913-01 Client ID: MS Sample									
Zinc, Total	23.7	40.7	59.3	87	-	-	75-125	-	20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1911116
Report Date: 03/27/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1217834-4 QC Sample: L1910884-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1217872-4 QC Sample: L1909913-01 Client ID: DUP Sample						
Arsenic, Total	2.12	2.22	mg/kg	5		20
Barium, Total	26.2	30.1	mg/kg	14		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	8.19	9.07	mg/kg	10		20
Lead, Total	9.90	10.0	mg/kg	1		20
Selenium, Total	0.256J	0.172J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911116-01
Client ID: RISB8_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:25
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/21/19 00:28	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/21/19 12:00	03/21/19 14:40	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.914	0.183	1	03/21/19 14:43	03/21/19 23:00	1,7196A	AJ



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911116-02
Client ID: RISB11_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 12:45
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	03/21/19 00:28	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/21/19 12:00	03/21/19 14:41	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.850	0.170	1	03/21/19 14:43	03/21/19 23:00	1,7196A	AJ



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1218049-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	03/21/19 12:00	03/21/19 14:33	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1218237-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/21/19 14:43	03/21/19 23:00	1,7196A	AJ

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911116

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1218049-2 WG1218049-3								
Cyanide, Total	92		82		80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1218237-2								
Chromium, Hexavalent	94		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911116

Project Number: 16.6334

Report Date: 03/27/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1218049-4 WG1218049-5 QC Sample: L1911116-02 Client ID: RISB11_10-12												
Cyanide, Total	ND	10	9.4	91		9.2	91		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1218237-4 QC Sample: L1911116-02 Client ID: RISB11_10-12												
Chromium, Hexavalent	ND	889	997	112		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1217806-1 QC Sample: L1911055-06 Client ID: DUP Sample						
Solids, Total	77.2	77.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1218237-6 QC Sample: L1911116-02 Client ID: RISB11_10-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19**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(*)
L1911116-01A	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),HEXCR-7196(30)
L1911116-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1911116-02A	Glass 250ml/8oz unpreserved	A	NA		4.7	Y	Absent		TCN-9010(14),TS(7),NYTCL-8081(14),HEXCR-7196(30)
L1911116-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911116**Project Number:** 16.6334**Report Date:** 03/27/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911116
Report Date: 03/27/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/16/19		2/19/11/16 ALPHA Job # 1910377 3/20/19						
Client Information Client: CTMole Associates Address: 50 Century Hill Drive Latham NY, 12110 Phone: 786-7400 Fax: — A.Smith@ctmole.com Email: K.Moline@ctmole.com		Project Information Project Name: Hamilton Hill II, TAT Site Project Location: Schenectady, NY Project # 16.6334 (Use Project name as Project #) ☐ Project Manager: Krb Moline ALPHAQuote #: Turn-Around Time Standard ☐ Due Date: Rush (only if pre approved) ☒ # of Days: 48 Hrs		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:				
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS						Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles
Please specify Metals or TAL.						TUB VOL TUB SVOL TUB PUB TUB PEST TAL Metals (Please Specify below)						Sample Specific Comments		
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		TUB VOL TUB SVOL TUB PUB TUB PEST TAL Metals		48 Hr TAT mol/mol 15 48 Hr TAT 5 Hold Analysis 7 Hold Analysis 7 Hold Analysis 6		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type VA A A A A A		Preservative F A A A A A		Relinquished By: [Signature] Date/Time: 3/15/19 13:47 Received By: [Signature] Date/Time: 3/15/19 13:47 3/16/19 00:55				



ANALYTICAL REPORT

Lab Number:	L1911122
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II, TA1 SITE
Project Number:	16.6334
Report Date:	03/29/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911122-01	RISB14_9-11	SOIL	SCHENECTADY, NY	03/20/19 12:30	03/20/19
L1911122-02	RISB10_2-4	SOIL	SCHENECTADY, NY	03/20/19 13:30	03/20/19
L1911122-03	RISB10_4-6	SOIL	SCHENECTADY, NY	03/20/19 13:35	03/20/19
L1911122-04	RISB10_6-8	SOIL	SCHENECTADY, NY	03/20/19 13:40	03/20/19
L1911122-05	RISB10_10-12	SOIL	SCHENECTADY, NY	03/20/19 13:50	03/20/19
L1911122-06	RISB6_2-4	SOIL	SCHENECTADY, NY	03/20/19 14:20	03/20/19
L1911122-07	RISB6_4-6	SOIL	SCHENECTADY, NY	03/20/19 14:30	03/20/19
L1911122-08	RISB6_6-8	SOIL	SCHENECTADY, NY	03/20/19 14:40	03/20/19
L1911122-09	RISB13_10-12	SOIL	SCHENECTADY, NY	03/20/19 15:20	03/20/19

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Case Narrative (continued)

Report Submission

March 29, 2019: This final report includes the results of the Semivolatile Organics and Pesticides analyses performed on L1911122-04.

March 26, 2019: This preliminary report includes the results of the Semivolatile Organics and Pesticides analyses performed on L1911122-03.

March 22, 2019: This is a preliminary report.

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

Semivolatile Organics

L1911122-02: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

L1911122-02: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L1911122-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

Pesticides

L1911122-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1911122-01, -02, -05, -06, and -09: 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.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Case Narrative (continued)

Cyanide, Total

The WG1217949-4 MS/MSD recoveries (34%/35%), performed on L1911122-02, are outside the acceptance criteria; however, the associated LCS/LCSD recoveries are within overall method allowances. No further action was required.

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: 03/29/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01
Client ID: RISB14_9-11
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 12:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/19 22:57
Analyst: NLK
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	3.0		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-01**Date Collected:** 03/20/19 12:30**Client ID:** RISB14_9-11**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-02
Client ID: RISB10_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/21/19 22:17
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	34		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-02**Date Collected:** 03/20/19 13:30**Client ID:** RISB10_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	9.07	J	ug/kg	1
Cyclobutane, methyl-	2.40	NJ	ug/kg	1
Undecane	3.48	NJ	ug/kg	1
Dodecane (C12)	3.19	NJ	ug/kg	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-02**Date Collected:** 03/20/19 13:30**Client ID:** RISB10_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/19 23:23
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.12	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.26	1
Tetrachloroethene	3.1		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	1.0	0.54	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	ND		ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.5	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Cyclohexane	ND		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Tentatively Identified Compounds

Total TIC Compounds	2.80	J	ug/kg	1
Unknown	2.80	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-06
Client ID: RISB6_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 14:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/21/19 22:42
Analyst: JC
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	0.58		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-06**Date Collected:** 03/20/19 14:20**Client ID:** RISB6_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	18		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	8.92	J	ug/kg	1
Cyclopentane	8.92	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-09
Client ID: RISB13_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 15:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/25/19 23:49
Analyst: NLK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	1.2	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	2.2		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	0.30	J	ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-09**Date Collected:** 03/20/19 15:20**Client ID:** RISB13_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.98	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/19 19:44
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06 Batch: WG1218459-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/21/19 19:44
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06 Batch: WG1218459-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/kg

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/21/19 19:44

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02,06 Batch: WG1218459-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/25/19 17:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1219614-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/25/19 17:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1219614-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.21	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/kg

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/25/19 17:16

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1219614-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

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: WG1218459-3 WG1218459-4								
Methylene chloride	82		81		70-130	1		30
1,1-Dichloroethane	93		93		70-130	0		30
Chloroform	91		90		70-130	1		30
Carbon tetrachloride	90		91		70-130	1		30
1,2-Dichloropropane	92		92		70-130	0		30
Dibromochloromethane	89		88		70-130	1		30
1,1,2-Trichloroethane	91		92		70-130	1		30
Tetrachloroethene	83		83		70-130	0		30
Chlorobenzene	88		86		70-130	2		30
Trichlorofluoromethane	95		95		70-139	0		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	89		89		70-130	0		30
Bromodichloromethane	89		88		70-130	1		30
trans-1,3-Dichloropropene	92		93		70-130	1		30
cis-1,3-Dichloropropene	89		87		70-130	2		30
Bromoform	90		89		70-130	1		30
1,1,2,2-Tetrachloroethane	94		94		70-130	0		30
Benzene	88		86		70-130	2		30
Toluene	90		90		70-130	0		30
Ethylbenzene	91		90		70-130	1		30
Chloromethane	96		94		52-130	2		30
Bromomethane	114		113		57-147	1		30
Vinyl chloride	91		91		67-130	0		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

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: WG1218459-3 WG1218459-4								
Chloroethane	98		95		50-151	3		30
1,1-Dichloroethene	86		85		65-135	1		30
trans-1,2-Dichloroethene	87		86		70-130	1		30
Trichloroethene	86		84		70-130	2		30
1,2-Dichlorobenzene	90		89		70-130	1		30
1,3-Dichlorobenzene	91		90		70-130	1		30
1,4-Dichlorobenzene	90		88		70-130	2		30
Methyl tert butyl ether	89		89		66-130	0		30
p/m-Xylene	88		87		70-130	1		30
o-Xylene	87		88		70-130	1		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	88		86		30-146	2		30
Acetone	111		112		54-140	1		30
Carbon disulfide	88		86		59-130	2		30
2-Butanone	102		101		70-130	1		30
4-Methyl-2-pentanone	97		99		70-130	2		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	83		83		70-130	0		30
1,2-Dibromoethane	89		90		70-130	1		30
1,2-Dibromo-3-chloropropane	90		91		68-130	1		30
Isopropylbenzene	95		92		70-130	3		30
1,2,3-Trichlorobenzene	91		90		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

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: WG1218459-3 WG1218459-4								
1,2,4-Trichlorobenzene	91		90		70-130	1		30
Methyl Acetate	99		101		51-146	2		30
Cyclohexane	93		92		59-142	1		30
1,4-Dioxane	102		105		65-136	3		30
Freon-113	91		87		50-139	4		30
Methyl cyclohexane	86		85		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		106		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	105		106		70-130
Dibromofluoromethane	99		98		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1219614-3 WG1219614-4								
Methylene chloride	100		96		70-130	4		30
1,1-Dichloroethane	100		96		70-130	4		30
Chloroform	93		90		70-130	3		30
Carbon tetrachloride	90		86		70-130	5		30
1,2-Dichloropropane	98		94		70-130	4		30
Dibromochloromethane	82		80		70-130	2		30
1,1,2-Trichloroethane	90		87		70-130	3		30
Tetrachloroethene	83		79		70-130	5		30
Chlorobenzene	83		79		70-130	5		30
Trichlorofluoromethane	90		86		70-139	5		30
1,2-Dichloroethane	97		95		70-130	2		30
1,1,1-Trichloroethane	93		88		70-130	6		30
Bromodichloromethane	90		88		70-130	2		30
trans-1,3-Dichloropropene	89		88		70-130	1		30
cis-1,3-Dichloropropene	91		89		70-130	2		30
Bromoform	80		78		70-130	3		30
1,1,2,2-Tetrachloroethane	85		83		70-130	2		30
Benzene	94		90		70-130	4		30
Toluene	89		84		70-130	6		30
Ethylbenzene	88		84		70-130	5		30
Chloromethane	115		107		52-130	7		30
Bromomethane	112		106		57-147	6		30
Vinyl chloride	101		95		67-130	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1219614-3 WG1219614-4								
Chloroethane	101		97		50-151	4		30
1,1-Dichloroethene	93		86		65-135	8		30
trans-1,2-Dichloroethene	95		90		70-130	5		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	80		78		70-130	3		30
1,3-Dichlorobenzene	82		79		70-130	4		30
1,4-Dichlorobenzene	82		78		70-130	5		30
Methyl tert butyl ether	94		92		66-130	2		30
p/m-Xylene	85		80		70-130	6		30
o-Xylene	83		80		70-130	4		30
cis-1,2-Dichloroethene	93		90		70-130	3		30
Styrene	83		79		70-130	5		30
Dichlorodifluoromethane	90		84		30-146	7		30
Acetone	124		121		54-140	2		30
Carbon disulfide	102		97		59-130	5		30
2-Butanone	105		102		70-130	3		30
4-Methyl-2-pentanone	101		95		70-130	6		30
2-Hexanone	98		94		70-130	4		30
Bromochloromethane	90		85		70-130	6		30
1,2-Dibromoethane	86		83		70-130	4		30
1,2-Dibromo-3-chloropropane	80		78		68-130	3		30
Isopropylbenzene	84		81		70-130	4		30
1,2,3-Trichlorobenzene	81		80		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1219614-3 WG1219614-4								
1,2,4-Trichlorobenzene	82		80		70-130	2		30
Methyl Acetate	105		101		51-146	4		30
Cyclohexane	98		93		59-142	5		30
1,4-Dioxane	111		118		65-136	6		30
Freon-113	92		88		50-139	4		30
Methyl cyclohexane	90		86		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		105		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01
Client ID: RISB14_9-11
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 12:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/24/19 15:57
Analyst: RC
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

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	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	19.	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	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	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

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01

Date Collected: 03/20/19 12:30

Client ID: RISB14_9-11

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	34.	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	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-01**Date Collected:** 03/20/19 12:30**Client ID:** RISB14_9-11**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	686	J	ug/kg			1
Unknown Amide	347	J	ug/kg			1
Unknown	166	J	ug/kg			1
Unknown	173	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	70		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-02 D
Client ID: RISB10_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/22/19 07:37
Analyst: SZ
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	2100	270	15
Hexachlorobenzene	ND		ug/kg	1600	290	15
Bis(2-chloroethyl)ether	ND		ug/kg	2300	350	15
2-Chloronaphthalene	ND		ug/kg	2600	260	15
3,3'-Dichlorobenzidine	ND		ug/kg	2600	690	15
2,4-Dinitrotoluene	ND		ug/kg	2600	520	15
2,6-Dinitrotoluene	ND		ug/kg	2600	440	15
Fluoranthene	7400		ug/kg	1600	300	15
4-Chlorophenyl phenyl ether	ND		ug/kg	2600	280	15
4-Bromophenyl phenyl ether	ND		ug/kg	2600	390	15
Bis(2-chloroisopropyl)ether	ND		ug/kg	3100	440	15
Bis(2-chloroethoxy)methane	ND		ug/kg	2800	260	15
Hexachlorobutadiene	ND		ug/kg	2600	380	15
Hexachlorocyclopentadiene	ND		ug/kg	7400	2300	15
Hexachloroethane	ND		ug/kg	2100	420	15
Isophorone	ND		ug/kg	2300	340	15
Naphthalene	ND		ug/kg	2600	320	15
Nitrobenzene	ND		ug/kg	2300	380	15
NDPA/DPA	ND		ug/kg	2100	290	15
n-Nitrosodi-n-propylamine	ND		ug/kg	2600	400	15
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2600	900	15
Butyl benzyl phthalate	ND		ug/kg	2600	650	15
Di-n-butylphthalate	ND		ug/kg	2600	490	15
Di-n-octylphthalate	ND		ug/kg	2600	880	15
Diethyl phthalate	ND		ug/kg	2600	240	15
Dimethyl phthalate	ND		ug/kg	2600	540	15
Benzo(a)anthracene	3700		ug/kg	1600	290	15
Benzo(a)pyrene	3200		ug/kg	2100	630	15

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-02 D

Date Collected: 03/20/19 13:30

Client ID: RISB10_2-4

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	4800		ug/kg	1600	440	15
Benzo(k)fluoranthene	1600		ug/kg	1600	410	15
Chrysene	3900		ug/kg	1600	270	15
Acenaphthylene	ND		ug/kg	2100	400	15
Anthracene	780	J	ug/kg	1600	500	15
Benzo(ghi)perylene	2100		ug/kg	2100	300	15
Fluorene	340	J	ug/kg	2600	250	15
Phenanthrene	4600		ug/kg	1600	310	15
Dibenzo(a,h)anthracene	550	J	ug/kg	1600	300	15
Indeno(1,2,3-cd)pyrene	2100		ug/kg	2100	360	15
Pyrene	5400		ug/kg	1600	260	15
Biphenyl	ND		ug/kg	5900	600	15
4-Chloroaniline	ND		ug/kg	2600	470	15
2-Nitroaniline	ND		ug/kg	2600	500	15
3-Nitroaniline	ND		ug/kg	2600	490	15
4-Nitroaniline	ND		ug/kg	2600	1100	15
Dibenzofuran	ND		ug/kg	2600	240	15
2-Methylnaphthalene	ND		ug/kg	3100	310	15
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2600	270	15
Acetophenone	ND		ug/kg	2600	320	15
2,4,6-Trichlorophenol	ND		ug/kg	1600	490	15
p-Chloro-m-cresol	ND		ug/kg	2600	380	15
2-Chlorophenol	ND		ug/kg	2600	300	15
2,4-Dichlorophenol	ND		ug/kg	2300	420	15
2,4-Dimethylphenol	ND		ug/kg	2600	850	15
2-Nitrophenol	ND		ug/kg	5600	970	15
4-Nitrophenol	ND		ug/kg	3600	1000	15
2,4-Dinitrophenol	ND		ug/kg	12000	1200	15
4,6-Dinitro-o-cresol	ND		ug/kg	6700	1200	15
Pentachlorophenol	ND		ug/kg	2100	570	15
Phenol	ND		ug/kg	2600	390	15
2-Methylphenol	ND		ug/kg	2600	400	15
3-Methylphenol/4-Methylphenol	ND		ug/kg	3700	400	15
2,4,5-Trichlorophenol	ND		ug/kg	2600	500	15
Carbazole	600	J	ug/kg	2600	250	15
Atrazine	ND		ug/kg	2100	900	15
Benzaldehyde	ND		ug/kg	3400	700	15

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-02 D

Date Collected: 03/20/19 13:30

Client ID: RISB10_2-4

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	2600	790	15
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2600	520	15

Tentatively Identified Compounds

Total TIC Compounds	2390	J	ug/kg			15
Unknown PAH	2390	J	ug/kg			15

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-03 D
Client ID: RISB10_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:35
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/25/19 14:41
Analyst: EK
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	700	91.	5
Hexachlorobenzene	ND		ug/kg	520	98.	5
Bis(2-chloroethyl)ether	ND		ug/kg	790	120	5
2-Chloronaphthalene	ND		ug/kg	880	87.	5
3,3'-Dichlorobenzidine	ND		ug/kg	880	230	5
2,4-Dinitrotoluene	ND		ug/kg	880	180	5
2,6-Dinitrotoluene	ND		ug/kg	880	150	5
Fluoranthene	1900		ug/kg	520	100	5
4-Chlorophenyl phenyl ether	ND		ug/kg	880	94.	5
4-Bromophenyl phenyl ether	ND		ug/kg	880	130	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	150	5
Bis(2-chloroethoxy)methane	ND		ug/kg	950	88.	5
Hexachlorobutadiene	ND		ug/kg	880	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2500	790	5
Hexachloroethane	ND		ug/kg	700	140	5
Isophorone	ND		ug/kg	790	110	5
Naphthalene	ND		ug/kg	880	110	5
Nitrobenzene	ND		ug/kg	790	130	5
NDPA/DPA	ND		ug/kg	700	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	880	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	880	300	5
Butyl benzyl phthalate	ND		ug/kg	880	220	5
Di-n-butylphthalate	ND		ug/kg	880	170	5
Di-n-octylphthalate	ND		ug/kg	880	300	5
Diethyl phthalate	ND		ug/kg	880	81.	5
Dimethyl phthalate	ND		ug/kg	880	180	5
Benzo(a)anthracene	1100		ug/kg	520	99.	5
Benzo(a)pyrene	1000		ug/kg	700	210	5

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-03 D

Date Collected: 03/20/19 13:35

Client ID: RISB10_4-6

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1400		ug/kg	520	150	5
Benzo(k)fluoranthene	490	J	ug/kg	520	140	5
Chrysene	1100		ug/kg	520	91.	5
Acenaphthylene	ND		ug/kg	700	140	5
Anthracene	220	J	ug/kg	520	170	5
Benzo(ghi)perylene	670	J	ug/kg	700	100	5
Fluorene	ND		ug/kg	880	85.	5
Phenanthrene	1000		ug/kg	520	110	5
Dibenzo(a,h)anthracene	160	J	ug/kg	520	100	5
Indeno(1,2,3-cd)pyrene	650	J	ug/kg	700	120	5
Pyrene	1400		ug/kg	520	87.	5
Biphenyl	ND		ug/kg	2000	200	5
4-Chloroaniline	ND		ug/kg	880	160	5
2-Nitroaniline	ND		ug/kg	880	170	5
3-Nitroaniline	ND		ug/kg	880	160	5
4-Nitroaniline	ND		ug/kg	880	360	5
Dibenzofuran	ND		ug/kg	880	83.	5
2-Methylnaphthalene	ND		ug/kg	1000	100	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	880	92.	5
Acetophenone	ND		ug/kg	880	110	5
2,4,6-Trichlorophenol	ND		ug/kg	520	170	5
p-Chloro-m-cresol	ND		ug/kg	880	130	5
2-Chlorophenol	ND		ug/kg	880	100	5
2,4-Dichlorophenol	ND		ug/kg	790	140	5
2,4-Dimethylphenol	ND		ug/kg	880	290	5
2-Nitrophenol	ND		ug/kg	1900	330	5
4-Nitrophenol	ND		ug/kg	1200	360	5
2,4-Dinitrophenol	ND		ug/kg	4200	410	5
4,6-Dinitro-o-cresol	ND		ug/kg	2300	420	5
Pentachlorophenol	ND		ug/kg	700	190	5
Phenol	ND		ug/kg	880	130	5
2-Methylphenol	ND		ug/kg	880	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	880	170	5
Carbazole	160	J	ug/kg	880	85.	5
Atrazine	ND		ug/kg	700	310	5
Benzaldehyde	ND		ug/kg	1200	240	5

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-03 D

Date Collected: 03/20/19 13:35

Client ID: RISB10_4-6

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	880	270	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	880	180	5

Tentatively Identified Compounds

Total TIC Compounds	761	J	ug/kg			5
Unknown PAH	761	J	ug/kg			5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	63		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-04
Client ID: RISB10_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/29/19 04:34
Analyst: EK
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

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	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	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	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	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

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-04

Date Collected: 03/20/19 13:40

Client ID: RISB10_6-8

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	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	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	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	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	220	46.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-04**Date Collected:** 03/20/19 13:40**Client ID:** RISB10_6-8**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Tentatively Identified Compounds

Total TIC Compounds	1680	J	ug/kg			1
Unknown	860	J	ug/kg			1
Unknown	817	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	75		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/24/19 16:24
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:40

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	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	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	520	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	38.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-05**Date Collected:** 03/20/19 13:50**Client ID:** RISB10_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	67		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-06
Client ID: RISB6_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 14:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/22/19 02:25
Analyst: SZ
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1
Fluoranthene	ND		ug/kg	100	19.	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	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	130	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	20.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	130	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.	1
Butyl benzyl phthalate	ND		ug/kg	170	42.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	57.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	35.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	41.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-06**Date Collected:** 03/20/19 14:20**Client ID:** RISB6_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	380	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	32.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	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	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	360	63.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Carbazole	ND		ug/kg	170	16.	1
Atrazine	ND		ug/kg	130	59.	1
Benzaldehyde	ND		ug/kg	220	46.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-06**Date Collected:** 03/20/19 14:20**Client ID:** RISB6_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	51.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1

Tentatively Identified Compounds

Total TIC Compounds	229	J	ug/kg			1
Unknown Amide	229	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	82		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-09
Client ID: RISB13_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 15:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/24/19 16:51
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:40

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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-09**Date Collected:** 03/20/19 15:20**Client ID:** RISB13_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
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	19.	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-09**Date Collected:** 03/20/19 15:20**Client ID:** RISB13_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	57		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06 Batch: WG1217912-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/21/19 23:37
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06 Batch: WG1217912-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/21/19 23:37
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06 Batch: WG1217912-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	70		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	98		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/19 23:48
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1218823-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/23/19 23:48
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1218823-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/23/19 23:48
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1218823-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
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	81		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	70		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/24/19 12:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1218833-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/24/19 12:49
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1218833-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/24/19 12:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,09 Batch: WG1218833-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	91		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	116		10-136
4-Terphenyl-d14	86		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/29/19 01:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1219928-1					
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	32.
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	460	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	55.
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: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/29/19 01:08
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1219928-1					
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	67.
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	66.
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: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/29/19 01:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1219928-1					
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

Total TIC Compounds	191	J	ug/kg
Unknown	191	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06 Batch: WG1217912-2 WG1217912-3								
Acenaphthene	89		95		31-137	7		50
Hexachlorobenzene	101		109		40-140	8		50
Bis(2-chloroethyl)ether	76		80		40-140	5		50
2-Chloronaphthalene	87		94		40-140	8		50
3,3'-Dichlorobenzidine	64		64		40-140	0		50
2,4-Dinitrotoluene	97		107		40-132	10		50
2,6-Dinitrotoluene	98		108		40-140	10		50
Fluoranthene	87		95		40-140	9		50
4-Chlorophenyl phenyl ether	90		98		40-140	9		50
4-Bromophenyl phenyl ether	95		102		40-140	7		50
Bis(2-chloroisopropyl)ether	69		74		40-140	7		50
Bis(2-chloroethoxy)methane	83		90		40-117	8		50
Hexachlorobutadiene	73		79		40-140	8		50
Hexachlorocyclopentadiene	78		84		40-140	7		50
Hexachloroethane	76		81		40-140	6		50
Isophorone	82		89		40-140	8		50
Naphthalene	80		85		40-140	6		50
Nitrobenzene	83		90		40-140	8		50
NDPA/DPA	97		107		36-157	10		50
n-Nitrosodi-n-propylamine	80		85		32-121	6		50
Bis(2-ethylhexyl)phthalate	104		112		40-140	7		50
Butyl benzyl phthalate	95		102		40-140	7		50
Di-n-butylphthalate	92		96		40-140	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06 Batch: WG1217912-2 WG1217912-3								
Di-n-octylphthalate	104		115		40-140	10		50
Diethyl phthalate	96		106		40-140	10		50
Dimethyl phthalate	94		103		40-140	9		50
Benzo(a)anthracene	93		100		40-140	7		50
Benzo(a)pyrene	107		118		40-140	10		50
Benzo(b)fluoranthene	102		116		40-140	13		50
Benzo(k)fluoranthene	103		111		40-140	7		50
Chrysene	93		100		40-140	7		50
Acenaphthylene	92		99		40-140	7		50
Anthracene	84		90		40-140	7		50
Benzo(ghi)perylene	92		100		40-140	8		50
Fluorene	94		102		40-140	8		50
Phenanthrene	82		89		40-140	8		50
Dibenzo(a,h)anthracene	90		99		40-140	10		50
Indeno(1,2,3-cd)pyrene	91		101		40-140	10		50
Pyrene	87		95		35-142	9		50
Biphenyl	91		99		54-104	8		50
4-Chloroaniline	40		39	Q	40-140	3		50
2-Nitroaniline	107		118		47-134	10		50
3-Nitroaniline	78		77		26-129	1		50
4-Nitroaniline	114		125		41-125	9		50
Dibenzofuran	91		98		40-140	7		50
2-Methylnaphthalene	83		89		40-140	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06 Batch: WG1217912-2 WG1217912-3								
1,2,4,5-Tetrachlorobenzene	86		94		40-117	9		50
Acetophenone	81		87		14-144	7		50
2,4,6-Trichlorophenol	93		101		30-130	8		50
p-Chloro-m-cresol	95		105	Q	26-103	10		50
2-Chlorophenol	85		91		25-102	7		50
2,4-Dichlorophenol	94		101		30-130	7		50
2,4-Dimethylphenol	94		102		30-130	8		50
2-Nitrophenol	105		114		30-130	8		50
4-Nitrophenol	112		124	Q	11-114	10		50
2,4-Dinitrophenol	95		110		4-130	15		50
4,6-Dinitro-o-cresol	120		132	Q	10-130	10		50
Pentachlorophenol	98		110	Q	17-109	12		50
Phenol	82		88		26-90	7		50
2-Methylphenol	89		94		30-130.	5		50
3-Methylphenol/4-Methylphenol	90		96		30-130	6		50
2,4,5-Trichlorophenol	98		107		30-130	9		50
Carbazole	89		94		54-128	5		50
Atrazine	106		118		40-140	11		50
Benzaldehyde	71		73		40-140	3		50
Caprolactam	97		107		15-130	10		50
2,3,4,6-Tetrachlorophenol	93		103		40-140	10		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06 Batch: WG1217912-2 WG1217912-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		88		25-120
Phenol-d6	79		84		10-120
Nitrobenzene-d5	85		90		23-120
2-Fluorobiphenyl	84		91		30-120
2,4,6-Tribromophenol	112		120		10-136
4-Terphenyl-d14	87		93		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1218823-2 WG1218823-3								
Acenaphthene	82		74		31-137	10		50
Hexachlorobenzene	85		77		40-140	10		50
Bis(2-chloroethyl)ether	83		74		40-140	11		50
2-Chloronaphthalene	81		71		40-140	13		50
3,3'-Dichlorobenzidine	62		62		40-140	0		50
2,4-Dinitrotoluene	96		87		40-132	10		50
2,6-Dinitrotoluene	90		77		40-140	16		50
Fluoranthene	78		70		40-140	11		50
4-Chlorophenyl phenyl ether	77		68		40-140	12		50
4-Bromophenyl phenyl ether	81		72		40-140	12		50
Bis(2-chloroisopropyl)ether	95		85		40-140	11		50
Bis(2-chloroethoxy)methane	85		76		40-117	11		50
Hexachlorobutadiene	72		63		40-140	13		50
Hexachlorocyclopentadiene	55		48		40-140	14		50
Hexachloroethane	83		75		40-140	10		50
Isophorone	88		78		40-140	12		50
Naphthalene	78		69		40-140	12		50
Nitrobenzene	88		79		40-140	11		50
NDPA/DPA	87		77		36-157	12		50
n-Nitrosodi-n-propylamine	88		77		32-121	13		50
Bis(2-ethylhexyl)phthalate	104		94		40-140	10		50
Butyl benzyl phthalate	89		80		40-140	11		50
Di-n-butylphthalate	97		88		40-140	10		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1218823-2 WG1218823-3								
Di-n-octylphthalate	123		109		40-140	12		50
Diethyl phthalate	95		84		40-140	12		50
Dimethyl phthalate	81		70		40-140	15		50
Benzo(a)anthracene	86		76		40-140	12		50
Benzo(a)pyrene	90		84		40-140	7		50
Benzo(b)fluoranthene	96		81		40-140	17		50
Benzo(k)fluoranthene	85		84		40-140	1		50
Chrysene	86		76		40-140	12		50
Acenaphthylene	80		70		40-140	13		50
Anthracene	80		72		40-140	11		50
Benzo(ghi)perylene	79		69		40-140	14		50
Fluorene	84		74		40-140	13		50
Phenanthrene	78		71		40-140	9		50
Dibenzo(a,h)anthracene	78		69		40-140	12		50
Indeno(1,2,3-cd)pyrene	80		71		40-140	12		50
Pyrene	79		72		35-142	9		50
Biphenyl	83		73		54-104	13		50
4-Chloroaniline	74		68		40-140	8		50
2-Nitroaniline	95		84		47-134	12		50
3-Nitroaniline	77		75		26-129	3		50
4-Nitroaniline	90		79		41-125	13		50
Dibenzofuran	85		76		40-140	11		50
2-Methylnaphthalene	79		69		40-140	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1218823-2 WG1218823-3								
1,2,4,5-Tetrachlorobenzene	80		69		40-117	15		50
Acetophenone	89		79		14-144	12		50
2,4,6-Trichlorophenol	86		75		30-130	14		50
p-Chloro-m-cresol	98		86		26-103	13		50
2-Chlorophenol	90		78		25-102	14		50
2,4-Dichlorophenol	92		82		30-130	11		50
2,4-Dimethylphenol	93		82		30-130	13		50
2-Nitrophenol	97		87		30-130	11		50
4-Nitrophenol	107		95		11-114	12		50
2,4-Dinitrophenol	88		75		4-130	16		50
4,6-Dinitro-o-cresol	88		79		10-130	11		50
Pentachlorophenol	75		65		17-109	14		50
Phenol	85		74		26-90	14		50
2-Methylphenol	91		80		30-130.	13		50
3-Methylphenol/4-Methylphenol	97		87		30-130	11		50
2,4,5-Trichlorophenol	90		78		30-130	14		50
Carbazole	84		76		54-128	10		50
Atrazine	83		76		40-140	9		50
Benzaldehyde	77		68		40-140	12		50
Caprolactam	123		108		15-130	13		50
2,3,4,6-Tetrachlorophenol	92		80		40-140	14		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1218823-2 WG1218823-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		77		25-120
Phenol-d6	86		75		10-120
Nitrobenzene-d5	90		80		23-120
2-Fluorobiphenyl	75		68		30-120
2,4,6-Tribromophenol	106		94		10-136
4-Terphenyl-d14	75		68		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218833-2 WG1218833-3								
Acenaphthene	83		86		31-137	4		50
Hexachlorobenzene	89		91		40-140	2		50
Bis(2-chloroethyl)ether	83		89		40-140	7		50
2-Chloronaphthalene	81		86		40-140	6		50
3,3'-Dichlorobenzidine	93		95		40-140	2		50
2,4-Dinitrotoluene	100		103		40-132	3		50
2,6-Dinitrotoluene	94		98		40-140	4		50
Fluoranthene	83		86		40-140	4		50
4-Chlorophenyl phenyl ether	78		81		40-140	4		50
4-Bromophenyl phenyl ether	81		84		40-140	4		50
Bis(2-chloroisopropyl)ether	98		104		40-140	6		50
Bis(2-chloroethoxy)methane	85		90		40-117	6		50
Hexachlorobutadiene	70		77		40-140	10		50
Hexachlorocyclopentadiene	55		59		40-140	7		50
Hexachloroethane	84		88		40-140	5		50
Isophorone	88		94		40-140	7		50
Naphthalene	78		83		40-140	6		50
Nitrobenzene	87		93		40-140	7		50
NDPA/DPA	89		92		36-157	3		50
n-Nitrosodi-n-propylamine	89		95		32-121	7		50
Bis(2-ethylhexyl)phthalate	108		112		40-140	4		50
Butyl benzyl phthalate	91		96		40-140	5		50
Di-n-butylphthalate	102		108		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218833-2 WG1218833-3								
Di-n-octylphthalate	124		128		40-140	3		50
Diethyl phthalate	99		102		40-140	3		50
Dimethyl phthalate	85		89		40-140	5		50
Benzo(a)anthracene	87		90		40-140	3		50
Benzo(a)pyrene	92		96		40-140	4		50
Benzo(b)fluoranthene	95		97		40-140	2		50
Benzo(k)fluoranthene	85		90		40-140	6		50
Chrysene	87		91		40-140	4		50
Acenaphthylene	84		88		40-140	5		50
Anthracene	84		87		40-140	4		50
Benzo(ghi)perylene	87		91		40-140	4		50
Fluorene	85		90		40-140	6		50
Phenanthrene	79		84		40-140	6		50
Dibenzo(a,h)anthracene	83		88		40-140	6		50
Indeno(1,2,3-cd)pyrene	86		91		40-140	6		50
Pyrene	82		88		35-142	7		50
Biphenyl	86		90		54-104	5		50
4-Chloroaniline	72		77		40-140	7		50
2-Nitroaniline	100		104		47-134	4		50
3-Nitroaniline	79		80		26-129	1		50
4-Nitroaniline	94		97		41-125	3		50
Dibenzofuran	85		90		40-140	6		50
2-Methylnaphthalene	81		86		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218833-2 WG1218833-3								
1,2,4,5-Tetrachlorobenzene	80		85		40-117	6		50
Acetophenone	87		95		14-144	9		50
2,4,6-Trichlorophenol	88		92		30-130	4		50
p-Chloro-m-cresol	101		106	Q	26-103	5		50
2-Chlorophenol	89		95		25-102	7		50
2,4-Dichlorophenol	90		97		30-130	7		50
2,4-Dimethylphenol	92		98		30-130	6		50
2-Nitrophenol	96		104		30-130	8		50
4-Nitrophenol	114		118	Q	11-114	3		50
2,4-Dinitrophenol	90		90		4-130	0		50
4,6-Dinitro-o-cresol	91		94		10-130	3		50
Pentachlorophenol	78		78		17-109	0		50
Phenol	85		91	Q	26-90	7		50
2-Methylphenol	91		96		30-130	5		50
3-Methylphenol/4-Methylphenol	98		105		30-130	7		50
2,4,5-Trichlorophenol	92		96		30-130	4		50
Carbazole	88		91		54-128	3		50
Atrazine	111		114		40-140	3		50
Benzaldehyde	76		80		40-140	5		50
Caprolactam	134	Q	141	Q	15-130	5		50
2,3,4,6-Tetrachlorophenol	91		98		40-140	7		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218833-2 WG1218833-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		95		25-120
Phenol-d6	89		93		10-120
Nitrobenzene-d5	91		98		23-120
2-Fluorobiphenyl	79		82		30-120
2,4,6-Tribromophenol	110		115		10-136
4-Terphenyl-d14	79		85		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1219928-2 WG1219928-3								
Acenaphthene	86		74		31-137	15		50
Hexachlorobenzene	82		73		40-140	12		50
Bis(2-chloroethyl)ether	74		68		40-140	8		50
2-Chloronaphthalene	74		70		40-140	6		50
3,3'-Dichlorobenzidine	65		64		40-140	2		50
2,4-Dinitrotoluene	96		85		40-132	12		50
2,6-Dinitrotoluene	82		82		40-140	0		50
Fluoranthene	83		74		40-140	11		50
4-Chlorophenyl phenyl ether	82		74		40-140	10		50
4-Bromophenyl phenyl ether	83		75		40-140	10		50
Bis(2-chloroisopropyl)ether	71		66		40-140	7		50
Bis(2-chloroethoxy)methane	76		70		40-117	8		50
Hexachlorobutadiene	74		70		40-140	6		50
Hexachlorocyclopentadiene	71		69		40-140	3		50
Hexachloroethane	69		64		40-140	8		50
Isophorone	80		73		40-140	9		50
Naphthalene	76		70		40-140	8		50
Nitrobenzene	76		71		40-140	7		50
NDPA/DPA	85		75		36-157	13		50
n-Nitrosodi-n-propylamine	79		73		32-121	8		50
Bis(2-ethylhexyl)phthalate	92		84		40-140	9		50
Butyl benzyl phthalate	87		80		40-140	8		50
Di-n-butylphthalate	93		84		40-140	10		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1219928-2 WG1219928-3								
Di-n-octylphthalate	95		85		40-140	11		50
Diethyl phthalate	85		76		40-140	11		50
Dimethyl phthalate	77		75		40-140	3		50
Benzo(a)anthracene	86		78		40-140	10		50
Benzo(a)pyrene	89		82		40-140	8		50
Benzo(b)fluoranthene	88		84		40-140	5		50
Benzo(k)fluoranthene	87		82		40-140	6		50
Chrysene	81		74		40-140	9		50
Acenaphthylene	76		75		40-140	1		50
Anthracene	86		77		40-140	11		50
Benzo(ghi)perylene	83		80		40-140	4		50
Fluorene	84		76		40-140	10		50
Phenanthrene	82		73		40-140	12		50
Dibenzo(a,h)anthracene	84		76		40-140	10		50
Indeno(1,2,3-cd)pyrene	86		78		40-140	10		50
Pyrene	80		73		35-142	9		50
Biphenyl	78		75		54-104	4		50
4-Chloroaniline	40		48		40-140	18		50
2-Nitroaniline	87		85		47-134	2		50
3-Nitroaniline	55		58		26-129	5		50
4-Nitroaniline	83		77		41-125	8		50
Dibenzofuran	83		74		40-140	11		50
2-Methylnaphthalene	77		71		40-140	8		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1219928-2 WG1219928-3								
1,2,4,5-Tetrachlorobenzene	78		75		40-117	4		50
Acetophenone	82		76		14-144	8		50
2,4,6-Trichlorophenol	87		82		30-130	6		50
p-Chloro-m-cresol	84		79		26-103	6		50
2-Chlorophenol	78		72		25-102	8		50
2,4-Dichlorophenol	83		76		30-130	9		50
2,4-Dimethylphenol	78		73		30-130	7		50
2-Nitrophenol	82		76		30-130	8		50
4-Nitrophenol	96		84		11-114	13		50
2,4-Dinitrophenol	83		72		4-130	14		50
4,6-Dinitro-o-cresol	86		76		10-130	12		50
Pentachlorophenol	84		72		17-109	15		50
Phenol	76		70		26-90	8		50
2-Methylphenol	80		74		30-130.	8		50
3-Methylphenol/4-Methylphenol	80		74		30-130	8		50
2,4,5-Trichlorophenol	86		79		30-130	8		50
Carbazole	87		78		54-128	11		50
Atrazine	105		91		40-140	14		50
Benzaldehyde	76		72		40-140	5		50
Caprolactam	101		92		15-130	9		50
2,3,4,6-Tetrachlorophenol	89		82		40-140	8		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1219928-2 WG1219928-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		73		25-120
Phenol-d6	78		71		10-120
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	77		72		30-120
2,4,6-Tribromophenol	94		85		10-136
4-Terphenyl-d14	81		74		18-120

PCBS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01
Client ID: RISB14_9-11
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 12:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/25/19 07:38
Analyst: WR
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:48
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.0	3.02	1	A
Aroclor 1221	ND		ug/kg	34.0	3.41	1	A
Aroclor 1232	ND		ug/kg	34.0	7.21	1	A
Aroclor 1242	ND		ug/kg	34.0	4.58	1	A
Aroclor 1248	ND		ug/kg	34.0	5.10	1	A
Aroclor 1254	ND		ug/kg	34.0	3.72	1	A
Aroclor 1260	ND		ug/kg	34.0	6.28	1	A
Aroclor 1262	ND		ug/kg	34.0	4.32	1	A
Aroclor 1268	ND		ug/kg	34.0	3.52	1	A
PCBs, Total	ND		ug/kg	34.0	3.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-02
Client ID: RISB10_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/22/19 03:47
Analyst: KB
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 07:47
Cleanup Method: EPA 3665A
Cleanup Date: 03/21/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.10	1	A
Aroclor 1221	ND		ug/kg	34.9	3.50	1	A
Aroclor 1232	ND		ug/kg	34.9	7.40	1	A
Aroclor 1242	ND		ug/kg	34.9	4.70	1	A
Aroclor 1248	ND		ug/kg	34.9	5.24	1	A
Aroclor 1254	ND		ug/kg	34.9	3.82	1	A
Aroclor 1260	ND		ug/kg	34.9	6.45	1	A
Aroclor 1262	ND		ug/kg	34.9	4.43	1	A
Aroclor 1268	ND		ug/kg	34.9	3.62	1	A
PCBs, Total	ND		ug/kg	34.9	3.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/25/19 07:51
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:49
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	3.21	1	A
Aroclor 1221	ND		ug/kg	36.2	3.63	1	A
Aroclor 1232	ND		ug/kg	36.2	7.67	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	ND		ug/kg	36.2	5.43	1	A
Aroclor 1254	ND		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.69	1	A
Aroclor 1262	ND		ug/kg	36.2	4.60	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	ND		ug/kg	36.2	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-06
Client ID: RISB6_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 14:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/22/19 01:55
Analyst: HT
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 07:47
Cleanup Method: EPA 3665A
Cleanup Date: 03/21/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.06	1	A
Aroclor 1221	ND		ug/kg	34.4	3.45	1	A
Aroclor 1232	ND		ug/kg	34.4	7.30	1	A
Aroclor 1242	ND		ug/kg	34.4	4.64	1	A
Aroclor 1248	ND		ug/kg	34.4	5.17	1	A
Aroclor 1254	ND		ug/kg	34.4	3.77	1	A
Aroclor 1260	ND		ug/kg	34.4	6.37	1	A
Aroclor 1262	ND		ug/kg	34.4	4.38	1	A
Aroclor 1268	ND		ug/kg	34.4	3.57	1	A
PCBs, Total	ND		ug/kg	34.4	3.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-09
Client ID: RISB13_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 15:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/25/19 08:03
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:50
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	3.47	1	A
Aroclor 1221	ND		ug/kg	39.1	3.91	1	A
Aroclor 1232	ND		ug/kg	39.1	8.28	1	A
Aroclor 1242	ND		ug/kg	39.1	5.26	1	A
Aroclor 1248	ND		ug/kg	39.1	5.86	1	A
Aroclor 1254	ND		ug/kg	39.1	4.27	1	A
Aroclor 1260	ND		ug/kg	39.1	7.22	1	A
Aroclor 1262	ND		ug/kg	39.1	4.96	1	A
Aroclor 1268	ND		ug/kg	39.1	4.05	1	A
PCBs, Total	ND		ug/kg	39.1	3.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 03/22/19 00:11
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 07:47
 Cleanup Method: EPA 3665A
 Cleanup Date: 03/21/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 03/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,06 Batch: WG1217887-1						
Aroclor 1016	ND		ug/kg	33.1	2.94	A
Aroclor 1221	ND		ug/kg	33.1	3.31	A
Aroclor 1232	ND		ug/kg	33.1	7.01	A
Aroclor 1242	ND		ug/kg	33.1	4.46	A
Aroclor 1248	ND		ug/kg	33.1	4.96	A
Aroclor 1254	ND		ug/kg	33.1	3.62	A
Aroclor 1260	ND		ug/kg	33.1	6.11	A
Aroclor 1262	ND		ug/kg	33.1	4.20	A
Aroclor 1268	ND		ug/kg	33.1	3.42	A
PCBs, Total	ND		ug/kg	33.1	2.94	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	101		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/24/19 17:30
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:23
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,05,09 Batch: WG1218765-1						
Aroclor 1016	ND		ug/kg	31.8	2.82	A
Aroclor 1221	ND		ug/kg	31.8	3.18	A
Aroclor 1232	ND		ug/kg	31.8	6.74	A
Aroclor 1242	ND		ug/kg	31.8	4.28	A
Aroclor 1248	ND		ug/kg	31.8	4.77	A
Aroclor 1254	ND		ug/kg	31.8	3.48	A
Aroclor 1260	ND		ug/kg	31.8	5.87	A
Aroclor 1262	ND		ug/kg	31.8	4.04	A
Aroclor 1268	ND		ug/kg	31.8	3.29	A
PCBs, Total	ND		ug/kg	31.8	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,06 Batch: WG1217887-2 WG1217887-3									
Aroclor 1016	76		79		40-140	4		50	A
Aroclor 1260	83		87		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		100		30-150	A
Decachlorobiphenyl	96		104		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		99		30-150	B
Decachlorobiphenyl	108		112		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218765-2 WG1218765-3									
Aroclor 1016	71		72		40-140	1		50	A
Aroclor 1260	62		62		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		62		30-150	A
Decachlorobiphenyl	57		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		66		30-150	B
Decachlorobiphenyl	61		62		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01
Client ID: RISB14_9-11
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 12:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/25/19 11:05
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 04:04
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.696	0.311	1	A
Alpha-BHC	ND		ug/kg	0.696	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.13	0.940	1	A
Endrin	ND		ug/kg	0.696	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.731	1	A
Endrin ketone	ND		ug/kg	1.67	0.430	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.386	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND	IP	ug/kg	3.13	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.696	0.332	1	A
Methoxychlor	ND		ug/kg	3.13	0.975	1	A
Toxaphene	ND		ug/kg	31.3	8.78	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.6	5.54	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-01**Date Collected:** 03/20/19 12:30**Client ID:** RISB14_9-11**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-02
Client ID: RISB10_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/22/19 10:50
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:10
Cleanup Method: EPA 3620B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.692	0.309	1	A
Alpha-BHC	ND		ug/kg	0.692	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.630	1	A
Heptachlor	ND		ug/kg	0.830	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.934	1	A
Endrin	ND		ug/kg	0.692	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.519	1	A
4,4'-DDE	6.96		ug/kg	1.66	0.384	1	B
4,4'-DDD	1.47	J	ug/kg	1.66	0.592	1	B
4,4'-DDT	60.2		ug/kg	3.11	1.34	1	B
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.555	1	A
Endosulfan sulfate	ND		ug/kg	0.692	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.72	1	A
cis-Chlordane	ND		ug/kg	2.08	0.578	1	A
trans-Chlordane	ND		ug/kg	2.08	0.548	1	A
Chlordane	ND		ug/kg	13.5	5.50	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-02**Date Collected:** 03/20/19 13:30**Client ID:** RISB10_2-4**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-03 D
Client ID: RISB10_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:35
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/24/19 15:54
Analyst: SL
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.34	1.63	5	A
Lindane	ND		ug/kg	3.47	1.55	5	A
Alpha-BHC	ND		ug/kg	3.47	0.986	5	A
Beta-BHC	ND		ug/kg	8.34	3.16	5	A
Heptachlor	ND		ug/kg	4.17	1.87	5	A
Aldrin	ND		ug/kg	8.34	2.94	5	A
Heptachlor epoxide	ND		ug/kg	15.6	4.69	5	A
Endrin	ND		ug/kg	3.47	1.42	5	A
Endrin aldehyde	ND		ug/kg	10.4	3.65	5	A
Endrin ketone	ND		ug/kg	8.34	2.15	5	A
Dieldrin	ND		ug/kg	5.21	2.60	5	A
4,4'-DDE	5.52	JP	ug/kg	8.34	1.93	5	B
4,4'-DDD	ND		ug/kg	8.34	2.97	5	B
4,4'-DDT	35.5		ug/kg	15.6	6.70	5	B
Endosulfan I	ND		ug/kg	8.34	1.97	5	A
Endosulfan II	ND		ug/kg	8.34	2.79	5	A
Endosulfan sulfate	ND		ug/kg	3.47	1.65	5	A
Methoxychlor	ND		ug/kg	15.6	4.86	5	A
Toxaphene	ND		ug/kg	156	43.8	5	A
cis-Chlordane	ND		ug/kg	10.4	2.90	5	A
trans-Chlordane	ND		ug/kg	10.4	2.75	5	A
Chlordane	ND		ug/kg	67.7	27.6	5	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-03 D

Date Collected: 03/20/19 13:35

Client ID: RISB10_4-6

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-04
Client ID: RISB10_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/28/19 12:22
Analyst: SL
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 08:15
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.684	0.306	1	A
Alpha-BHC	ND		ug/kg	0.684	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.622	1	A
Heptachlor	ND		ug/kg	0.820	0.368	1	A
Aldrin	ND		ug/kg	1.64	0.578	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.923	1	A
Endrin	ND		ug/kg	0.684	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.718	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	ND		ug/kg	1.02	0.513	1	A
4,4'-DDE	ND		ug/kg	1.64	0.379	1	A
4,4'-DDD	ND		ug/kg	1.64	0.585	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.388	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.684	0.325	1	A
Methoxychlor	ND		ug/kg	3.08	0.957	1	A
Toxaphene	ND		ug/kg	30.8	8.61	1	A
cis-Chlordane	ND		ug/kg	2.05	0.572	1	A
trans-Chlordane	ND		ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-04**Date Collected:** 03/20/19 13:40**Client ID:** RISB10_6-8**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	132		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/25/19 11:18
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 04:04
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	ND		ug/kg	3.17	1.36	1	B
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.89	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.558	1	A
Chlordane	ND		ug/kg	13.8	5.61	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911122-05**Date Collected:** 03/20/19 13:50**Client ID:** RISB10_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	107		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-06
Client ID: RISB6_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 14:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/22/19 11:03
Analyst: KEG
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 03/21/19 08:10
Cleanup Method: EPA 3620B
Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.58	0.309	1	A
Lindane	ND		ug/kg	0.658	0.294	1	A
Alpha-BHC	ND		ug/kg	0.658	0.187	1	A
Beta-BHC	ND		ug/kg	1.58	0.598	1	A
Heptachlor	ND		ug/kg	0.789	0.354	1	A
Aldrin	ND		ug/kg	1.58	0.556	1	A
Heptachlor epoxide	ND		ug/kg	2.96	0.888	1	A
Endrin	ND		ug/kg	0.658	0.270	1	A
Endrin aldehyde	ND		ug/kg	1.97	0.691	1	A
Endrin ketone	ND		ug/kg	1.58	0.406	1	A
Dieldrin	ND		ug/kg	0.987	0.493	1	A
4,4'-DDE	ND		ug/kg	1.58	0.365	1	A
4,4'-DDD	ND		ug/kg	1.58	0.563	1	A
4,4'-DDT	ND		ug/kg	2.96	1.27	1	A
Endosulfan I	ND		ug/kg	1.58	0.373	1	A
Endosulfan II	ND		ug/kg	1.58	0.528	1	A
Endosulfan sulfate	ND		ug/kg	0.658	0.313	1	A
Methoxychlor	ND		ug/kg	2.96	0.921	1	A
Toxaphene	ND		ug/kg	29.6	8.29	1	A
cis-Chlordane	ND		ug/kg	1.97	0.550	1	A
trans-Chlordane	ND		ug/kg	1.97	0.521	1	A
Chlordane	ND		ug/kg	12.8	5.23	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-06

Date Collected: 03/20/19 14:20

Client ID: RISB6_2-4

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	48		30-150	B
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	47		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-09
Client ID: RISB13_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 15:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/25/19 11:31
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 04:04
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.778	0.348	1	A
Alpha-BHC	ND		ug/kg	0.778	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.708	1	A
Heptachlor	ND		ug/kg	0.934	0.419	1	A
Aldrin	ND		ug/kg	1.87	0.658	1	A
Heptachlor epoxide	ND		ug/kg	3.50	1.05	1	A
Endrin	ND		ug/kg	0.778	0.319	1	A
Endrin aldehyde	ND		ug/kg	2.33	0.817	1	A
Endrin ketone	ND		ug/kg	1.87	0.481	1	A
Dieldrin	ND		ug/kg	1.17	0.584	1	A
4,4'-DDE	1.30	J	ug/kg	1.87	0.432	1	B
4,4'-DDD	ND		ug/kg	1.87	0.666	1	A
4,4'-DDT	3.76		ug/kg	3.50	1.50	1	B
Endosulfan I	ND		ug/kg	1.87	0.441	1	A
Endosulfan II	ND		ug/kg	1.87	0.624	1	A
Endosulfan sulfate	ND		ug/kg	0.778	0.370	1	A
Methoxychlor	ND		ug/kg	3.50	1.09	1	A
Toxaphene	ND		ug/kg	35.0	9.80	1	A
cis-Chlordane	ND		ug/kg	2.33	0.651	1	A
trans-Chlordane	ND		ug/kg	2.33	0.616	1	A
Chlordane	ND		ug/kg	15.2	6.19	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-09

Date Collected: 03/20/19 15:20

Client ID: RISB13_10-12

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/22/19 10:11
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,06 Batch: WG1217907-1						
Delta-BHC	ND		ug/kg	1.55	0.304	A
Lindane	ND		ug/kg	0.646	0.289	A
Alpha-BHC	ND		ug/kg	0.646	0.184	A
Beta-BHC	ND		ug/kg	1.55	0.588	A
Heptachlor	ND		ug/kg	0.776	0.348	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.91	0.873	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.679	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.970	0.485	A
4,4'-DDE	ND		ug/kg	1.55	0.359	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.91	1.25	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.308	A
Methoxychlor	ND		ug/kg	2.91	0.905	A
Toxaphene	ND		ug/kg	29.1	8.14	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.512	A
Chlordane	ND		ug/kg	12.6	5.14	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/22/19 10:11
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/21/19 08:10
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/22/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,06 Batch: WG1217907-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 16:39
 Analyst: BM

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 03:59
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,05,09 Batch: WG1218773-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.639	0.286	A
Alpha-BHC	ND		ug/kg	0.639	0.182	A
Beta-BHC	ND		ug/kg	1.53	0.582	A
Heptachlor	ND		ug/kg	0.767	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.88	0.863	A
Endrin	ND		ug/kg	0.639	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.671	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.959	0.480	A
4,4'-DDE	ND		ug/kg	1.53	0.355	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.513	A
Endosulfan sulfate	ND		ug/kg	0.639	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.895	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.5	5.08	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 16:39
 Analyst: BM

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 03:59
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,05,09 Batch: WG1218773-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	106		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1218803-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.994	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.663	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.35	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1218803-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/27/19 18:20
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/26/19 09:52
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1219578-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.4	5.07	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/27/19 18:20
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/26/19 09:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1219578-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	120		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,06 Batch: WG1217907-2 WG1217907-3									
Delta-BHC	75		64		30-150	16		30	A
Lindane	71		64		30-150	10		30	A
Alpha-BHC	75		68		30-150	10		30	A
Beta-BHC	67		62		30-150	8		30	A
Heptachlor	70		61		30-150	14		30	A
Aldrin	69		58		30-150	17		30	A
Heptachlor epoxide	69		59		30-150	16		30	A
Endrin	70		58		30-150	19		30	A
Endrin aldehyde	60		43		30-150	33	Q	30	A
Endrin ketone	61		47		30-150	26		30	A
Dieldrin	73		59		30-150	21		30	A
4,4'-DDE	67		53		30-150	23		30	A
4,4'-DDD	66		52		30-150	24		30	A
4,4'-DDT	73		57		30-150	25		30	A
Endosulfan I	64		52		30-150	21		30	A
Endosulfan II	64		51		30-150	23		30	A
Endosulfan sulfate	44		34		30-150	26		30	A
Methoxychlor	65		49		30-150	28		30	A
cis-Chlordane	62		49		30-150	23		30	A
trans-Chlordane	64		46		30-150	33	Q	30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,06 Batch: WG1217907-2 WG1217907-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	68		55		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		63		30-150	A
Decachlorobiphenyl	78		62		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218773-2 WG1218773-3									
Delta-BHC	76		88		30-150	15		30	A
Lindane	78		89		30-150	13		30	A
Alpha-BHC	74		88		30-150	17		30	A
Beta-BHC	72		83		30-150	14		30	A
Heptachlor	52		61		30-150	16		30	A
Aldrin	70		83		30-150	17		30	A
Heptachlor epoxide	74		87		30-150	16		30	A
Endrin	77		88		30-150	13		30	A
Endrin aldehyde	52		66		30-150	24		30	A
Endrin ketone	63		77		30-150	20		30	A
Dieldrin	74		88		30-150	17		30	A
4,4'-DDE	67		81		30-150	19		30	A
4,4'-DDD	71		84		30-150	17		30	A
4,4'-DDT	73		87		30-150	18		30	A
Endosulfan I	65		78		30-150	18		30	A
Endosulfan II	71		82		30-150	14		30	A
Endosulfan sulfate	53		62		30-150	16		30	A
Methoxychlor	68		80		30-150	16		30	A
cis-Chlordane	60		72		30-150	18		30	A
trans-Chlordane	74		84		30-150	13		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,05,09 Batch: WG1218773-2 WG1218773-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		88		30-150	B
Decachlorobiphenyl	105		117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		85		30-150	A
Decachlorobiphenyl	106		119		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1218803-2 WG1218803-3									
Delta-BHC	82		76		30-150	8		30	A
Lindane	82		76		30-150	8		30	A
Alpha-BHC	85		79		30-150	7		30	A
Beta-BHC	75		70		30-150	7		30	A
Heptachlor	81		75		30-150	8		30	A
Aldrin	80		73		30-150	9		30	A
Heptachlor epoxide	82		75		30-150	9		30	A
Endrin	83		77		30-150	8		30	A
Endrin aldehyde	60		56		30-150	7		30	A
Endrin ketone	68		63		30-150	8		30	A
Dieldrin	84		78		30-150	7		30	A
4,4'-DDE	78		72		30-150	8		30	A
4,4'-DDD	78		72		30-150	8		30	A
4,4'-DDT	86		80		30-150	7		30	A
Endosulfan I	74		68		30-150	8		30	A
Endosulfan II	72		68		30-150	6		30	A
Endosulfan sulfate	53		47		30-150	12		30	A
Methoxychlor	74		67		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	64		59		30-150	8		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1218803-2 WG1218803-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150	B
Decachlorobiphenyl	88		81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		75		30-150	A
Decachlorobiphenyl	89		84		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1219578-2 WG1219578-3									
Delta-BHC	109		95		30-150	14		30	A
Lindane	105		94		30-150	11		30	A
Alpha-BHC	108		96		30-150	12		30	A
Beta-BHC	108		97		30-150	11		30	A
Heptachlor	111		99		30-150	11		30	A
Aldrin	97		87		30-150	11		30	A
Heptachlor epoxide	119		103		30-150	14		30	A
Endrin	116		102		30-150	13		30	A
Endrin aldehyde	86		74		30-150	15		30	A
Endrin ketone	112		98		30-150	13		30	A
Dieldrin	106		94		30-150	12		30	A
4,4'-DDE	92		82		30-150	11		30	A
4,4'-DDD	102		91		30-150	11		30	A
4,4'-DDT	109		96		30-150	13		30	A
Endosulfan I	95		85		30-150	11		30	A
Endosulfan II	105		93		30-150	12		30	A
Endosulfan sulfate	105		90		30-150	15		30	A
Methoxychlor	105		93		30-150	12		30	A
cis-Chlordane	80		74		30-150	8		30	A
trans-Chlordane	73		69		30-150	6		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1219578-2 WG1219578-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		85		30-150	B
Decachlorobiphenyl	113		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		83		30-150	A
Decachlorobiphenyl	124		111		30-150	A

METALS

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-01

Date Collected: 03/20/19 12:30

Client ID: RISB14_9-11

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2590		mg/kg	8.23	2.22	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Antimony, Total	0.403	J	mg/kg	4.11	0.313	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Arsenic, Total	2.66		mg/kg	0.823	0.171	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Barium, Total	13.1		mg/kg	0.823	0.143	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Beryllium, Total	0.189	J	mg/kg	0.411	0.027	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Cadmium, Total	0.255	J	mg/kg	0.823	0.081	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Calcium, Total	3290		mg/kg	8.23	2.88	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Chromium, Total	4.50		mg/kg	0.823	0.079	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Cobalt, Total	3.43		mg/kg	1.64	0.137	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Copper, Total	6.73		mg/kg	0.823	0.212	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Iron, Total	11400		mg/kg	4.11	0.743	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Lead, Total	6.26		mg/kg	4.11	0.220	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Magnesium, Total	1160		mg/kg	8.23	1.27	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Manganese, Total	352		mg/kg	0.823	0.131	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/21/19 08:20	03/21/19 16:04	EPA 7471B	1,7471B	GD
Nickel, Total	6.68		mg/kg	2.06	0.199	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Potassium, Total	254		mg/kg	206	11.8	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.64	0.212	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.823	0.233	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Sodium, Total	96.9	J	mg/kg	164	2.59	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.64	0.259	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Vanadium, Total	14.4		mg/kg	0.823	0.167	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB
Zinc, Total	22.8		mg/kg	4.11	0.241	2	03/21/19 19:32	03/22/19 00:42	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-02

Date Collected: 03/20/19 13:30

Client ID: RISB10_2-4

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3660		mg/kg	8.30	2.24	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Antimony, Total	0.672	J	mg/kg	4.15	0.316	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Arsenic, Total	5.16		mg/kg	0.830	0.173	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Barium, Total	52.2		mg/kg	0.830	0.144	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Beryllium, Total	0.241	J	mg/kg	0.415	0.027	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Cadmium, Total	0.307	J	mg/kg	0.830	0.081	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Calcium, Total	59900		mg/kg	8.30	2.91	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Chromium, Total	6.18		mg/kg	0.830	0.080	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Cobalt, Total	3.35		mg/kg	1.66	0.138	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Copper, Total	12.7		mg/kg	0.830	0.214	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Iron, Total	8170		mg/kg	4.15	0.750	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Lead, Total	59.7		mg/kg	4.15	0.222	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Magnesium, Total	27200		mg/kg	8.30	1.28	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Manganese, Total	167		mg/kg	0.830	0.132	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Mercury, Total	0.014	J	mg/kg	0.067	0.014	1	03/21/19 08:20	03/21/19 16:06	EPA 7471B	1,7471B	GD
Nickel, Total	8.53		mg/kg	2.08	0.201	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Potassium, Total	460		mg/kg	208	12.0	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Selenium, Total	0.324	J	mg/kg	1.66	0.214	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Silver, Total	1.34		mg/kg	0.830	0.235	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Sodium, Total	182		mg/kg	166	2.62	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.262	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Vanadium, Total	13.4		mg/kg	0.830	0.168	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB
Zinc, Total	49.2		mg/kg	4.15	0.243	2	03/21/19 19:32	03/22/19 00:47	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-05

Date Collected: 03/20/19 13:50

Client ID: RISB10_10-12

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2790		mg/kg	8.73	2.36	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Antimony, Total	0.995	J	mg/kg	4.36	0.332	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Arsenic, Total	2.21		mg/kg	0.873	0.182	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Barium, Total	8.95		mg/kg	0.873	0.152	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Beryllium, Total	0.183	J	mg/kg	0.436	0.029	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.873	0.086	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Calcium, Total	988		mg/kg	8.73	3.05	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Chromium, Total	3.95		mg/kg	0.873	0.084	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Cobalt, Total	3.18		mg/kg	1.74	0.145	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Copper, Total	10.0		mg/kg	0.873	0.225	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Iron, Total	8520		mg/kg	4.36	0.788	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Lead, Total	3.32	J	mg/kg	4.36	0.234	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Magnesium, Total	1290		mg/kg	8.73	1.34	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Manganese, Total	237		mg/kg	0.873	0.139	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.070	0.015	1	03/21/19 08:20	03/21/19 16:08	EPA 7471B	1,7471B	GD
Nickel, Total	7.49		mg/kg	2.18	0.211	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Potassium, Total	277		mg/kg	218	12.6	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.74	0.225	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.873	0.247	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Sodium, Total	136	J	mg/kg	174	2.75	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.74	0.275	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Vanadium, Total	7.67		mg/kg	0.873	0.177	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS
Zinc, Total	22.7		mg/kg	4.36	0.256	2	03/21/19 20:51	03/22/19 11:18	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-06

Date Collected: 03/20/19 14:20

Client ID: RISB6_2-4

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5670		mg/kg	8.00	2.16	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Antimony, Total	0.752	J	mg/kg	4.00	0.304	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Arsenic, Total	2.34		mg/kg	0.800	0.166	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Barium, Total	12.6		mg/kg	0.800	0.139	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Beryllium, Total	0.336	J	mg/kg	0.400	0.026	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.800	0.078	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Calcium, Total	376		mg/kg	8.00	2.80	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Chromium, Total	6.36		mg/kg	0.800	0.077	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Cobalt, Total	4.15		mg/kg	1.60	0.133	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Copper, Total	9.18		mg/kg	0.800	0.206	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Iron, Total	11200		mg/kg	4.00	0.723	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Lead, Total	3.83	J	mg/kg	4.00	0.214	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Magnesium, Total	1690		mg/kg	8.00	1.23	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Manganese, Total	218		mg/kg	0.800	0.127	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/21/19 08:20	03/21/19 16:10	EPA 7471B	1,7471B	GD
Nickel, Total	8.45		mg/kg	2.00	0.194	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Potassium, Total	256		mg/kg	200	11.5	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.60	0.206	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.800	0.226	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Sodium, Total	89.6	J	mg/kg	160	2.52	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.60	0.252	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Vanadium, Total	12.1		mg/kg	0.800	0.162	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS
Zinc, Total	22.1		mg/kg	4.00	0.234	2	03/21/19 20:51	03/22/19 11:23	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911122-09

Date Collected: 03/20/19 15:20

Client ID: RISB13_10-12

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2040		mg/kg	9.46	2.56	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Antimony, Total	0.369	J	mg/kg	4.73	0.360	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Arsenic, Total	1.71		mg/kg	0.946	0.197	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Barium, Total	6.62		mg/kg	0.946	0.165	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Beryllium, Total	0.104	J	mg/kg	0.473	0.031	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.946	0.093	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Calcium, Total	597		mg/kg	9.46	3.31	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Chromium, Total	3.50		mg/kg	0.946	0.091	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Cobalt, Total	2.54		mg/kg	1.89	0.157	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Copper, Total	6.86		mg/kg	0.946	0.244	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Iron, Total	7580		mg/kg	4.73	0.854	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Lead, Total	2.54	J	mg/kg	4.73	0.254	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Magnesium, Total	910		mg/kg	9.46	1.46	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Manganese, Total	66.8		mg/kg	0.946	0.150	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Mercury, Total	ND		mg/kg	0.076	0.016	1	03/21/19 08:20	03/21/19 16:12	EPA 7471B	1,7471B	GD
Nickel, Total	5.05		mg/kg	2.36	0.229	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Potassium, Total	213	J	mg/kg	236	13.6	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Selenium, Total	ND		mg/kg	1.89	0.244	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Silver, Total	ND		mg/kg	0.946	0.268	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Sodium, Total	26.4	J	mg/kg	189	2.98	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Thallium, Total	ND		mg/kg	1.89	0.298	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Vanadium, Total	8.09		mg/kg	0.946	0.192	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS
Zinc, Total	19.2		mg/kg	4.73	0.277	2	03/21/19 20:51	03/22/19 11:44	EPA 3050B	1,6010D	PS



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

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): 01-02,05-06,09 Batch: WG1217901-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/21/19 08:20	03/21/19 12:29	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1218234-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Sodium, Total	1.66	J	mg/kg	80.0	1.26	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/21/19 19:32	03/21/19 22:26	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

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): 05-06,09 Batch: WG1218254-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Iron, Total	0.472	J	mg/kg	2.00	0.361	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Manganese, Total	0.184	J	mg/kg	0.400	0.064	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Potassium, Total	ND		mg/kg	100	5.76	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Sodium, Total	1.26	J	mg/kg	80.0	1.26	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/21/19 20:51	03/22/19 10:53	1,6010D	PS

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,09 Batch: WG1217901-2 SRM Lot Number: D101-540								
Mercury, Total	89		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1218234-2 SRM Lot Number: D101-540					
Aluminum, Total	75	-	50-151	-	
Antimony, Total	177	-	3-196	-	
Arsenic, Total	103	-	83-117	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	93	-	83-117	-	
Cadmium, Total	96	-	83-117	-	
Calcium, Total	91	-	81-119	-	
Chromium, Total	98	-	81-118	-	
Cobalt, Total	98	-	84-116	-	
Copper, Total	97	-	83-116	-	
Iron, Total	102	-	62-138	-	
Lead, Total	101	-	83-117	-	
Magnesium, Total	88	-	76-124	-	
Manganese, Total	92	-	82-118	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	88	-	71-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	100	-	72-127	-	
Thallium, Total	100	-	81-119	-	
Vanadium, Total	105	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911122**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1218234-2 SRM Lot Number: D101-540					
Zinc, Total	100	-	81-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06,09 Batch: WG1218254-2 SRM Lot Number: D101-540					
Aluminum, Total	71	-	50-151	-	
Antimony, Total	165	-	3-196	-	
Arsenic, Total	95	-	83-117	-	
Barium, Total	91	-	83-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	95	-	83-117	-	
Calcium, Total	94	-	81-119	-	
Chromium, Total	94	-	81-118	-	
Cobalt, Total	96	-	84-116	-	
Copper, Total	92	-	83-116	-	
Iron, Total	94	-	62-138	-	
Lead, Total	89	-	83-117	-	
Magnesium, Total	83	-	76-124	-	
Manganese, Total	93	-	82-118	-	
Nickel, Total	96	-	82-117	-	
Potassium, Total	79	-	71-130	-	
Selenium, Total	96	-	79-121	-	
Silver, Total	90	-	80-120	-	
Sodium, Total	98	-	72-127	-	
Thallium, Total	95	-	81-119	-	
Vanadium, Total	99	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911122**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06,09 Batch: WG1218254-2 SRM Lot Number: D101-540					
Zinc, Total	94	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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): 01-02,05-06,09 QC Batch ID: WG1217901-3 QC Sample: L1909913-01 Client ID: MS Sample												
Mercury, Total	ND	0.133	0.147	110		-	-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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): 01-02			QC Batch ID: WG1218234-3		QC Sample: L1911009-02		Client ID: MS Sample		
Aluminum, Total	10700	175	11100	228	Q	-	75-125	-	20
Antimony, Total	1.07J	43.8	34.9	80		-	75-125	-	20
Arsenic, Total	5.34	10.5	13.4	77		-	75-125	-	20
Barium, Total	58.1	175	202	82		-	75-125	-	20
Beryllium, Total	0.866	4.38	4.35	80		-	75-125	-	20
Cadmium, Total	0.343J	4.46	4.00	90		-	75-125	-	20
Calcium, Total	958	875	1600	73	Q	-	75-125	-	20
Chromium, Total	19.9	17.5	32.6	72	Q	-	75-125	-	20
Cobalt, Total	8.90	43.8	42.6	77		-	75-125	-	20
Copper, Total	29.2	21.9	43.5	65	Q	-	75-125	-	20
Iron, Total	15700	87.5	16400	800	Q	-	75-125	-	20
Lead, Total	14.5	44.6	50.3	80		-	75-125	-	20
Magnesium, Total	4250	875	5690	164	Q	-	75-125	-	20
Manganese, Total	228	43.8	287	135	Q	-	75-125	-	20
Nickel, Total	15.2	43.8	48.0	75		-	75-125	-	20
Potassium, Total	1650	875	2630	112		-	75-125	-	20
Selenium, Total	ND	10.5	7.93	76		-	75-125	-	20
Silver, Total	ND	26.2	22.2	84		-	75-125	-	20
Sodium, Total	1060	875	1850	90		-	75-125	-	20
Thallium, Total	ND	10.5	7.60	72	Q	-	75-125	-	20
Vanadium, Total	34.0	43.8	66.6	74	Q	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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): 01-02 QC Batch ID: WG1218234-3 QC Sample: L1911009-02 Client ID: MS Sample									
Zinc, Total	54.8	43.8	86.7	73	Q	-	-	75-125	- 20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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): 05-06,09 QC Batch ID: WG1218254-3 WG1218254-4 QC Sample: L1911046-06 Client ID: MS Sample											
Aluminum, Total	2560	201	3740	586	Q	3410	407	Q	75-125	9	20
Antimony, Total	ND	50.4	44.4	88		46.2	88		75-125	4	20
Arsenic, Total	1.67	12.1	13.9	101		14.2	100		75-125	2	20
Barium, Total	26.7	201	235	103		232	98		75-125	1	20
Beryllium, Total	ND	5.04	4.69	93		4.80	92		75-125	2	20
Cadmium, Total	ND	5.14	4.54	88		4.74	89		75-125	4	20
Calcium, Total	123000	1010	105000	0	Q	99500	0	Q	75-125	5	20
Chromium, Total	4.86	20.1	25.0	100		25.0	96		75-125	0	20
Cobalt, Total	2.09	50.4	45.5	86		46.8	86		75-125	3	20
Copper, Total	12.8	25.2	39.7	107		38.7	99		75-125	3	20
Iron, Total	6710	101	9980	3250	Q	8120	1350	Q	75-125	21	Q 20
Lead, Total	26.5	51.4	73.9	92		74.1	89		75-125	0	20
Magnesium, Total	30500	1010	18100	0	Q	16300	0	Q	75-125	10	20
Manganese, Total	180	50.4	276	191	Q	246	126	Q	75-125	11	20
Nickel, Total	5.27	50.4	48.8	86		49.6	85		75-125	2	20
Potassium, Total	436	1010	1690	124		1670	118		75-125	1	20
Selenium, Total	0.510J	12.1	12.0	99		12.0	96		75-125	0	20
Silver, Total	ND	30.2	31.5	104		32.0	102		75-125	2	20
Sodium, Total	134J	1010	1220	121		1230	118		75-125	1	20
Thallium, Total	ND	12.1	9.62	80		9.75	78		75-125	1	20
Vanadium, Total	7.99	50.4	60.4	104		61.0	102		75-125	1	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

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): 05-06,09 QC Batch ID: WG1218254-3 WG1218254-4 QC Sample: L1911046-06 Client ID: MS Sample									
Zinc, Total	56.7	50.4	112	110	106	94	75-125	6	20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911122**Report Date:** 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,09 QC Batch ID: WG1217901-4 QC Sample: L1909913-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1218234-4 QC Sample: L1911009-02 Client ID: DUP Sample					
Aluminum, Total	10700	9670	mg/kg	10	20
Antimony, Total	1.07J	1.13J	mg/kg	NC	20
Arsenic, Total	5.34	5.27	mg/kg	1	20
Barium, Total	58.1	48.4	mg/kg	18	20
Beryllium, Total	0.866	0.668	mg/kg	26	Q 20
Cadmium, Total	0.343J	0.312J	mg/kg	NC	20
Calcium, Total	958	602	mg/kg	46	Q 20
Chromium, Total	19.9	16.0	mg/kg	22	Q 20
Cobalt, Total	8.90	7.51	mg/kg	17	20
Copper, Total	29.2	27.6	mg/kg	6	20
Iron, Total	15700	14700	mg/kg	7	20
Lead, Total	14.5	12.8	mg/kg	12	20
Magnesium, Total	4250	3380	mg/kg	23	Q 20
Manganese, Total	228	213	mg/kg	7	20
Nickel, Total	15.2	13.6	mg/kg	11	20
Potassium, Total	1650	1340	mg/kg	21	Q 20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	1060	958	mg/kg	10	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1218234-4 QC Sample: L1911009-02 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	34.0	28.7	mg/kg	17	20
Zinc, Total	54.8	45.6	mg/kg	18	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-01
Client ID: RISB14_9-11
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 12:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	03/21/19 03:21	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/21/19 10:20	03/21/19 13:46	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.849	0.170	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-02
Client ID: RISB10_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:30
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	03/21/19 03:21	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.98	0.21	1	03/21/19 10:20	03/21/19 13:47	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.853	0.170	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-03
Client ID: RISB10_4-6
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:35
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	03/23/19 00:08	121,2540G	YA



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-04
Client ID: RISB10_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/27/19 00:24	121,2540G	YA



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-05
Client ID: RISB10_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 13:50
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	03/21/19 04:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/21/19 10:20	03/21/19 13:52	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.891	0.178	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-06
Client ID: RISB6_2-4
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 14:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.8		%	0.100	NA	1	-	03/21/19 04:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/21/19 10:20	03/21/19 13:53	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.835	0.167	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911122-09
Client ID: RISB13_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 15:20
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	03/21/19 04:04	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.1	0.24	1	03/21/19 10:20	03/21/19 13:54	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.957	0.191	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911122

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02,05-06,09 Batch: WG1217846-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/21/19 05:15	03/21/19 10:12	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-02,05-06,09 Batch: WG1217949-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	03/21/19 10:20	03/21/19 13:40	1,9010C/9012B	LH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911122**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09 Batch: WG1217846-2								
Chromium, Hexavalent	89		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09 Batch: WG1217949-2 WG1217949-3								
Cyanide, Total	92		82		80-120	1		35

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09 QC Batch ID: WG1217846-4 QC Sample: L1911122-06 Client ID: RISB6_2-4												
Chromium, Hexavalent	ND	1050	1090	104		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09 QC Batch ID: WG1217949-4 WG1217949-5 QC Sample: L1911122-02 Client ID: RISB10_2-4												
Cyanide, Total	ND	10	3.4	34	Q	3.6	36	Q	75-125	6		35

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911122

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1217824-1 QC Sample: L1910946-02 Client ID: DUP Sample						
Solids, Total	86.1	87.4	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05-06,09 QC Batch ID: WG1217837-1 QC Sample: L1911066-03 Client ID: DUP Sample						
Solids, Total	69.1	70.8	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09 QC Batch ID: WG1217846-6 QC Sample: L1911122-06 Client ID: RISB6_2-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1218747-1 QC Sample: L1910853-02 Client ID: DUP Sample						
Solids, Total	90.7	90.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1219903-1 QC Sample: L1911952-02 Client ID: DUP Sample						
Solids, Total	81.3	85.0	%	4		20

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911122**Project Number:** 16.6334**Report Date:** 03/29/19**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(*)
L1911122-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911122-01B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-01C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-01D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911122-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911122-01F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-01G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-02A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911122-02B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-02C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-02D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911122-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911122-02F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-02G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-03A	Vial MeOH preserved	A	NA		2.3	Y	Absent		HOLD-8260HLW(14)
L1911122-03B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-03C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No: 03291916:34
Lab Number: L1911122
Report Date: 03/29/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1911122-03D	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),HOLD-WETCHEM(),TS(7),NYTCL-8081(14),HOLD-METAL(180)
L1911122-04A	Vial MeOH preserved	A	NA		2.3	Y	Absent		HOLD-8260HLW(14)
L1911122-04B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-04C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-04D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		-
L1911122-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1911122-04F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L1911122-04G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14)
L1911122-05A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911122-05B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-05C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-05D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911122-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911122-05F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-05G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-06A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911122-06B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-06C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-06D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911122-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911122-06F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No: 03291916:34
Lab Number: L1911122
Report Date: 03/29/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1911122-06G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-07A	Vial MeOH preserved	A	NA		2.3	Y	Absent		HOLD-8260HLW(14)
L1911122-07B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-07C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-07D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		HOLD-WETCHEM()
L1911122-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1911122-07F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		HOLD-8270(14)
L1911122-07G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		HOLD-8270(14)
L1911122-08A	Vial MeOH preserved	A	NA		2.3	Y	Absent		HOLD-8260HLW(14)
L1911122-08B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-08C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	HOLD-8260HLW(14)
L1911122-08D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		HOLD-WETCHEM()
L1911122-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		HOLD-METAL(180)
L1911122-08F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		HOLD-8270(14)
L1911122-08G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		HOLD-8270(14)
L1911122-09A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911122-09B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-09C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911122-09D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911122-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911122-09F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911122-09G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911122
Report Date: 03/29/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/21/19		ALPHA Job # L1911122																																																																																																																																													
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Hamilton Hill II, TA 1 site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐				Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #																																																																																																																																											
Client Information Client: <u>C.T. Mole Associates</u> Address: <u>50 Century Hill Dr</u> <u>Latham, NY 12110</u> Phone: <u>518 786 7400</u> Fax: <u>A.Smith@CTMole.com</u> Email: <u>K.Moline@CTMole.com</u>				Project Manager: <u>Kirk Moline</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hour</u>				Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																											
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: <u>Priority: VOCs, SVOCs, Metals, PCBs, PAHs, Pesticides, Post</u> <u>* N.gh</u> <u>Low</u> Please specify Metals or TAL.						ANALYSIS <table border="1"> <tr> <td>TCL VOC+TIC</td> <td>TCL SVOC+TIC</td> <td>TCL Pest</td> <td>TCL PCB</td> <td>TAL Metals</td> <td>including mercury, hex, chrom, cyanide</td> </tr> <tr> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> </tr> </table>				TCL VOC+TIC	TCL SVOC+TIC	TCL Pest	TCL PCB	TAL Metals	including mercury, hex, chrom, cyanide	x	x	x	x	x	x	Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																													
TCL VOC+TIC	TCL SVOC+TIC	TCL Pest	TCL PCB	TAL Metals	including mercury, hex, chrom, cyanide																																																																																																																																																
x	x	x	x	x	x																																																																																																																																																
<table border="1"> <thead> <tr> <th>ALPHA Lab ID (Lab Use Only)</th> <th>Sample ID</th> <th colspan="2">Collection</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th>TCL VOC+TIC</th> <th>TCL SVOC+TIC</th> <th>TCL Pest</th> <th>TCL PCB</th> <th>TAL Metals</th> <th>including mercury, hex, chrom, cyanide</th> <th>Sample Specific Comments</th> </tr> <tr> <th></th> <th></th> <th>Date</th> <th>Time</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>11122 - 01</td> <td>RISB14-9-11</td> <td>3/20/2019</td> <td>1230</td> <td>Soil</td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Standard TAT</td> </tr> <tr> <td>-02</td> <td>RISB10-2-4</td> <td></td> <td>1330</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>48 Hour TAT</td> </tr> <tr> <td>-03</td> <td>RISB10-4-6</td> <td></td> <td>1335</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis *</td> </tr> <tr> <td>-04</td> <td>RISB10-6-8</td> <td></td> <td>1340</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> </tr> <tr> <td>-05</td> <td>RISB10-10-12</td> <td></td> <td>1350</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Normal TAT</td> </tr> <tr> <td>-06</td> <td>RISB6-2-4</td> <td></td> <td>1420</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>48 Hour TAT</td> </tr> <tr> <td>-07</td> <td>RISB6-4-6</td> <td></td> <td>1430</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> </tr> <tr> <td>-08</td> <td>RISB6-6-8</td> <td></td> <td>1440</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Hold Analysis</td> </tr> <tr> <td>-09</td> <td>RISB13-10-12</td> <td></td> <td>1520</td> <td></td> <td>KC</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>x</td> <td>Normal TAT</td> </tr> </tbody> </table>						ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCL VOC+TIC	TCL SVOC+TIC	TCL Pest	TCL PCB	TAL Metals	including mercury, hex, chrom, cyanide	Sample Specific Comments			Date	Time											11122 - 01	RISB14-9-11	3/20/2019	1230	Soil	KC	x	x	x	x	x	x	Standard TAT	-02	RISB10-2-4		1330		KC	x	x	x	x	x	x	48 Hour TAT	-03	RISB10-4-6		1335		KC	x	x	x	x	x	x	Hold Analysis *	-04	RISB10-6-8		1340		KC	x	x	x	x	x	x	Hold Analysis	-05	RISB10-10-12		1350		KC	x	x	x	x	x	x	Normal TAT	-06	RISB6-2-4		1420		KC	x	x	x	x	x	x	48 Hour TAT	-07	RISB6-4-6		1430		KC	x	x	x	x	x	x	Hold Analysis	-08	RISB6-6-8		1440		KC	x	x	x	x	x	x	Hold Analysis	-09	RISB13-10-12		1520		KC	x	x	x	x	x	x	Normal TAT
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TCL VOC+TIC	TCL SVOC+TIC	TCL Pest	TCL PCB	TAL Metals	including mercury, hex, chrom, cyanide	Sample Specific Comments																																																																																																																																									
		Date	Time																																																																																																																																																		
11122 - 01	RISB14-9-11	3/20/2019	1230	Soil	KC	x	x	x	x	x	x	Standard TAT																																																																																																																																									
-02	RISB10-2-4		1330		KC	x	x	x	x	x	x	48 Hour TAT																																																																																																																																									
-03	RISB10-4-6		1335		KC	x	x	x	x	x	x	Hold Analysis *																																																																																																																																									
-04	RISB10-6-8		1340		KC	x	x	x	x	x	x	Hold Analysis																																																																																																																																									
-05	RISB10-10-12		1350		KC	x	x	x	x	x	x	Normal TAT																																																																																																																																									
-06	RISB6-2-4		1420		KC	x	x	x	x	x	x	48 Hour TAT																																																																																																																																									
-07	RISB6-4-6		1430		KC	x	x	x	x	x	x	Hold Analysis																																																																																																																																									
-08	RISB6-6-8		1440		KC	x	x	x	x	x	x	Hold Analysis																																																																																																																																									
-09	RISB13-10-12		1520		KC	x	x	x	x	x	x	Normal TAT																																																																																																																																									
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type VA A A A A A		Preservative F A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																																																																											
Relinquished By: <u>Erin M. Gannon</u>		Date/Time: <u>3/20/19 17:17</u>		Received By: <u>Erin M. Gannon</u>		Date/Time: <u>3/20/19 21:46</u>		Relinquished By: <u>Erin M. Gannon</u>		Date/Time: <u>3/21/19 01:10</u>																																																																																																																																											
Relinquished By: <u>Erin M. Gannon</u>		Date/Time: <u>3/20/19 21:46</u>		Received By: <u>Erin M. Gannon</u>		Date/Time: <u>3/21/19 01:10</u>		Relinquished By: <u>Erin M. Gannon</u>		Date/Time: <u>3/21/19 01:10</u>																																																																																																																																											



ANALYTICAL REPORT

Lab Number:	L1911123
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II TA1 SITE
Project Number:	16.6334
Report Date:	03/27/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911123-01	RIMW2_10-12	SOIL	SCHENECTADY, NY	03/20/19 16:40	03/20/19

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

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.

Total Metals

L1911123-01: 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:

 Amita Naik

Title: Technical Director/Representative

Date: 03/27/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911123-01
 Client ID: RIMW2_10-12
 Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
 Date Received: 03/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/27/19 11:07
 Analyst: MV
 Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	2.1		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911123-01
Client ID: RIMW2_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.1	0.70	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	2.63	J	ug/kg	1
Unknown Alkane	2.63	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/27/19 08:00
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220214-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/27/19 08:00
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220214-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/27/19 08:00
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220214-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

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: WG1220214-3 WG1220214-4								
Methylene chloride	84		85		70-130	1		30
1,1-Dichloroethane	87		87		70-130	0		30
Chloroform	92		93		70-130	1		30
Carbon tetrachloride	100		99		70-130	1		30
1,2-Dichloropropane	85		86		70-130	1		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	87		85		70-130	2		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	86		87		70-130	1		30
Trichlorofluoromethane	138		134		70-139	3		30
1,2-Dichloroethane	94		95		70-130	1		30
1,1,1-Trichloroethane	97		97		70-130	0		30
Bromodichloromethane	97		96		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	94		94		70-130	0		30
Bromoform	91		89		70-130	2		30
1,1,2,2-Tetrachloroethane	82		81		70-130	1		30
Benzene	87		87		70-130	0		30
Toluene	83		84		70-130	1		30
Ethylbenzene	87		86		70-130	1		30
Chloromethane	78		76		52-130	3		30
Bromomethane	137		139		57-147	1		30
Vinyl chloride	84		82		67-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

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: WG1220214-3 WG1220214-4								
Chloroethane	136		140		50-151	3		30
1,1-Dichloroethene	132		133		65-135	1		30
trans-1,2-Dichloroethene	88		89		70-130	1		30
Trichloroethene	90		89		70-130	1		30
1,2-Dichlorobenzene	89		88		70-130	1		30
1,3-Dichlorobenzene	90		90		70-130	0		30
1,4-Dichlorobenzene	87		87		70-130	0		30
Methyl tert butyl ether	92		92		66-130	0		30
p/m-Xylene	88		88		70-130	0		30
o-Xylene	89		88		70-130	1		30
cis-1,2-Dichloroethene	90		90		70-130	0		30
Styrene	89		89		70-130	0		30
Dichlorodifluoromethane	99		100		30-146	1		30
Acetone	97		97		54-140	0		30
Carbon disulfide	132	Q	127		59-130	4		30
2-Butanone	90		88		70-130	2		30
4-Methyl-2-pentanone	90		89		70-130	1		30
2-Hexanone	84		83		70-130	1		30
Bromochloromethane	95		95		70-130	0		30
1,2-Dibromoethane	91		91		70-130	0		30
1,2-Dibromo-3-chloropropane	92		91		68-130	1		30
Isopropylbenzene	85		84		70-130	1		30
1,2,3-Trichlorobenzene	92		93		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

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: WG1220214-3 WG1220214-4								
1,2,4-Trichlorobenzene	92		92		70-130	0		30
Methyl Acetate	89		90		51-146	1		30
Cyclohexane	88		88		59-142	0		30
1,4-Dioxane	108		106		65-136	2		30
Freon-113	149	Q	138		50-139	8		30
Methyl cyclohexane	92		90		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	106		107		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911123-01
 Client ID: RIMW2_10-12
 Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
 Date Received: 03/20/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 03/24/19 15:30
 Analyst: RC
 Percent Solids: 95%

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 09:40

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	30.	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	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	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911123-01
 Client ID: RIMW2_10-12
 Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
 Date Received: 03/20/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	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	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	47.	1

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911123-01
Client ID: RIMW2_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Tentatively Identified Compounds

Total TIC Compounds	828	J	ug/kg			1
Unknown Amide	828	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	73		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/24/19 12:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218833-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/24/19 12:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218833-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	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	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/24/19 12:49
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218833-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
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	91		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	116		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218833-2 WG1218833-3								
Acenaphthene	83		86		31-137	4		50
Hexachlorobenzene	89		91		40-140	2		50
Bis(2-chloroethyl)ether	83		89		40-140	7		50
2-Chloronaphthalene	81		86		40-140	6		50
3,3'-Dichlorobenzidine	93		95		40-140	2		50
2,4-Dinitrotoluene	100		103		40-132	3		50
2,6-Dinitrotoluene	94		98		40-140	4		50
Fluoranthene	83		86		40-140	4		50
4-Chlorophenyl phenyl ether	78		81		40-140	4		50
4-Bromophenyl phenyl ether	81		84		40-140	4		50
Bis(2-chloroisopropyl)ether	98		104		40-140	6		50
Bis(2-chloroethoxy)methane	85		90		40-117	6		50
Hexachlorobutadiene	70		77		40-140	10		50
Hexachlorocyclopentadiene	55		59		40-140	7		50
Hexachloroethane	84		88		40-140	5		50
Isophorone	88		94		40-140	7		50
Naphthalene	78		83		40-140	6		50
Nitrobenzene	87		93		40-140	7		50
NDPA/DPA	89		92		36-157	3		50
n-Nitrosodi-n-propylamine	89		95		32-121	7		50
Bis(2-ethylhexyl)phthalate	108		112		40-140	4		50
Butyl benzyl phthalate	91		96		40-140	5		50
Di-n-butylphthalate	102		108		40-140	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218833-2 WG1218833-3								
Di-n-octylphthalate	124		128		40-140	3		50
Diethyl phthalate	99		102		40-140	3		50
Dimethyl phthalate	85		89		40-140	5		50
Benzo(a)anthracene	87		90		40-140	3		50
Benzo(a)pyrene	92		96		40-140	4		50
Benzo(b)fluoranthene	95		97		40-140	2		50
Benzo(k)fluoranthene	85		90		40-140	6		50
Chrysene	87		91		40-140	4		50
Acenaphthylene	84		88		40-140	5		50
Anthracene	84		87		40-140	4		50
Benzo(ghi)perylene	87		91		40-140	4		50
Fluorene	85		90		40-140	6		50
Phenanthrene	79		84		40-140	6		50
Dibenzo(a,h)anthracene	83		88		40-140	6		50
Indeno(1,2,3-cd)pyrene	86		91		40-140	6		50
Pyrene	82		88		35-142	7		50
Biphenyl	86		90		54-104	5		50
4-Chloroaniline	72		77		40-140	7		50
2-Nitroaniline	100		104		47-134	4		50
3-Nitroaniline	79		80		26-129	1		50
4-Nitroaniline	94		97		41-125	3		50
Dibenzofuran	85		90		40-140	6		50
2-Methylnaphthalene	81		86		40-140	6		50

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218833-2 WG1218833-3								
1,2,4,5-Tetrachlorobenzene	80		85		40-117	6		50
Acetophenone	87		95		14-144	9		50
2,4,6-Trichlorophenol	88		92		30-130	4		50
p-Chloro-m-cresol	101		106	Q	26-103	5		50
2-Chlorophenol	89		95		25-102	7		50
2,4-Dichlorophenol	90		97		30-130	7		50
2,4-Dimethylphenol	92		98		30-130	6		50
2-Nitrophenol	96		104		30-130	8		50
4-Nitrophenol	114		118	Q	11-114	3		50
2,4-Dinitrophenol	90		90		4-130	0		50
4,6-Dinitro-o-cresol	91		94		10-130	3		50
Pentachlorophenol	78		78		17-109	0		50
Phenol	85		91	Q	26-90	7		50
2-Methylphenol	91		96		30-130	5		50
3-Methylphenol/4-Methylphenol	98		105		30-130	7		50
2,4,5-Trichlorophenol	92		96		30-130	4		50
Carbazole	88		91		54-128	3		50
Atrazine	111		114		40-140	3		50
Benzaldehyde	76		80		40-140	5		50
Caprolactam	134	Q	141	Q	15-130	5		50
2,3,4,6-Tetrachlorophenol	91		98		40-140	7		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218833-2 WG1218833-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		95		25-120
Phenol-d6	89		93		10-120
Nitrobenzene-d5	91		98		23-120
2-Fluorobiphenyl	79		82		30-120
2,4,6-Tribromophenol	110		115		10-136
4-Terphenyl-d14	79		85		18-120

PCBS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911123-01
Client ID: RIMW2_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/24/19 19:20
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:51
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	3.00	1	A
Aroclor 1221	ND		ug/kg	33.8	3.38	1	A
Aroclor 1232	ND		ug/kg	33.8	7.16	1	A
Aroclor 1242	ND		ug/kg	33.8	4.55	1	A
Aroclor 1248	ND		ug/kg	33.8	5.07	1	A
Aroclor 1254	ND		ug/kg	33.8	3.70	1	A
Aroclor 1260	ND		ug/kg	33.8	6.24	1	A
Aroclor 1262	ND		ug/kg	33.8	4.29	1	A
Aroclor 1268	ND		ug/kg	33.8	3.50	1	A
PCBs, Total	ND		ug/kg	33.8	3.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/24/19 17:30
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/23/19 02:23
Cleanup Method: EPA 3665A
Cleanup Date: 03/23/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1218765-1						
Aroclor 1016	ND		ug/kg	31.8	2.82	A
Aroclor 1221	ND		ug/kg	31.8	3.18	A
Aroclor 1232	ND		ug/kg	31.8	6.74	A
Aroclor 1242	ND		ug/kg	31.8	4.28	A
Aroclor 1248	ND		ug/kg	31.8	4.77	A
Aroclor 1254	ND		ug/kg	31.8	3.48	A
Aroclor 1260	ND		ug/kg	31.8	5.87	A
Aroclor 1262	ND		ug/kg	31.8	4.04	A
Aroclor 1268	ND		ug/kg	31.8	3.29	A
PCBs, Total	ND		ug/kg	31.8	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218765-2 WG1218765-3									
Aroclor 1016	71		72		40-140	1		50	A
Aroclor 1260	62		62		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		62		30-150	A
Decachlorobiphenyl	57		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		66		30-150	B
Decachlorobiphenyl	61		62		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911123-01
Client ID: RIMW2_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/25/19 11:43
Analyst: KEG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 04:04
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

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	0.826	0.370	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	0.390	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	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.48	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS****Lab ID:** L1911123-01**Date Collected:** 03/20/19 16:40**Client ID:** RIMW2_10-12**Date Received:** 03/20/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	102		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/24/19 16:39
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 03/23/19 03:59
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1218773-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.639	0.286	A
Alpha-BHC	ND		ug/kg	0.639	0.182	A
Beta-BHC	ND		ug/kg	1.53	0.582	A
Heptachlor	ND		ug/kg	0.767	0.344	A
Aldrin	ND		ug/kg	1.53	0.540	A
Heptachlor epoxide	ND		ug/kg	2.88	0.863	A
Endrin	ND		ug/kg	0.639	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.671	A
Endrin ketone	ND		ug/kg	1.53	0.395	A
Dieldrin	ND		ug/kg	0.959	0.480	A
4,4'-DDE	ND		ug/kg	1.53	0.355	A
4,4'-DDD	ND		ug/kg	1.53	0.547	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.513	A
Endosulfan sulfate	ND		ug/kg	0.639	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.895	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.534	A
trans-Chlordane	ND		ug/kg	1.92	0.506	A
Chlordane	ND		ug/kg	12.5	5.08	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 16:39
 Analyst: BM

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 03:59
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1218773-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	90		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	106		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218773-2 WG1218773-3									
Delta-BHC	76		88		30-150	15		30	A
Lindane	78		89		30-150	13		30	A
Alpha-BHC	74		88		30-150	17		30	A
Beta-BHC	72		83		30-150	14		30	A
Heptachlor	52		61		30-150	16		30	A
Aldrin	70		83		30-150	17		30	A
Heptachlor epoxide	74		87		30-150	16		30	A
Endrin	77		88		30-150	13		30	A
Endrin aldehyde	52		66		30-150	24		30	A
Endrin ketone	63		77		30-150	20		30	A
Dieldrin	74		88		30-150	17		30	A
4,4'-DDE	67		81		30-150	19		30	A
4,4'-DDD	71		84		30-150	17		30	A
4,4'-DDT	73		87		30-150	18		30	A
Endosulfan I	65		78		30-150	18		30	A
Endosulfan II	71		82		30-150	14		30	A
Endosulfan sulfate	53		62		30-150	16		30	A
Methoxychlor	68		80		30-150	16		30	A
cis-Chlordane	60		72		30-150	18		30	A
trans-Chlordane	74		84		30-150	13		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218773-2 WG1218773-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		88		30-150	B
Decachlorobiphenyl	105		117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		85		30-150	A
Decachlorobiphenyl	106		119		30-150	A

METALS

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**SAMPLE RESULTS**

Lab ID: L1911123-01

Date Collected: 03/20/19 16:40

Client ID: RIMW2_10-12

Date Received: 03/20/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2430		mg/kg	8.34	2.25	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Antimony, Total	0.718	J	mg/kg	4.17	0.317	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Arsenic, Total	2.24		mg/kg	0.834	0.174	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Barium, Total	10.4		mg/kg	0.834	0.145	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Beryllium, Total	0.225	J	mg/kg	0.417	0.028	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Cadmium, Total	0.417	J	mg/kg	0.834	0.082	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Calcium, Total	34000		mg/kg	8.34	2.92	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Chromium, Total	3.65		mg/kg	0.834	0.080	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Cobalt, Total	2.77		mg/kg	1.67	0.138	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Copper, Total	8.27		mg/kg	0.834	0.215	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Iron, Total	7000		mg/kg	4.17	0.753	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Lead, Total	3.47	J	mg/kg	4.17	0.224	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Magnesium, Total	1940		mg/kg	8.34	1.28	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Manganese, Total	178		mg/kg	0.834	0.133	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Mercury, Total	ND		mg/kg	0.067	0.014	1	03/21/19 08:20	03/21/19 17:44	EPA 7471B	1,7471B	GD
Nickel, Total	5.98		mg/kg	2.08	0.202	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Potassium, Total	328		mg/kg	208	12.0	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Selenium, Total	ND		mg/kg	1.67	0.215	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Silver, Total	ND		mg/kg	0.834	0.236	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Sodium, Total	59.5	J	mg/kg	167	2.63	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Thallium, Total	ND		mg/kg	1.67	0.263	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Vanadium, Total	7.28		mg/kg	0.834	0.169	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC
Zinc, Total	18.0		mg/kg	4.17	0.244	2	03/22/19 19:20	03/23/19 00:51	EPA 3050B	1,6010D	MC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911123

Project Number: 16.6334

Report Date: 03/27/19

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 Batch: WG1217901-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/21/19 08:20	03/21/19 12:29	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1218691-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Iron, Total	0.436	J	mg/kg	2.00	0.361	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Potassium, Total	ND		mg/kg	100	5.76	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Sodium, Total	2.93	J	mg/kg	80.0	1.26	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/22/19 19:20	03/23/19 00:23	1,6010D	MC

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911123

Project Number: 16.6334

Report Date: 03/27/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911123**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1217901-2 SRM Lot Number: D101-540								
Mercury, Total	89		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1218691-2 SRM Lot Number: D101-540					
Aluminum, Total	76	-	50-151	-	
Antimony, Total	195	-	3-196	-	
Arsenic, Total	117	-	83-117	-	
Barium, Total	106	-	83-118	-	
Beryllium, Total	101	-	83-117	-	
Cadmium, Total	102	-	83-117	-	
Calcium, Total	102	-	81-119	-	
Chromium, Total	109	-	81-118	-	
Cobalt, Total	107	-	84-116	-	
Copper, Total	110	-	83-116	-	
Iron, Total	102	-	62-138	-	
Lead, Total	108	-	83-117	-	
Magnesium, Total	100	-	76-124	-	
Manganese, Total	99	-	82-118	-	
Nickel, Total	107	-	82-117	-	
Potassium, Total	93	-	71-130	-	
Selenium, Total	112	-	79-121	-	
Silver, Total	112	-	80-120	-	
Sodium, Total	102	-	72-127	-	
Thallium, Total	109	-	81-119	-	
Vanadium, Total	110	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911123**Report Date:** 03/27/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1218691-2 SRM Lot Number: D101-540					
Zinc, Total	109	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

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 QC Batch ID: WG1217901-3 QC Sample: L1909913-01 Client ID: MS Sample												
Mercury, Total	ND	0.133	0.147	110		-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

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 QC Batch ID: WG1218691-3 QC Sample: L1911328-01 Client ID: MS Sample									
Aluminum, Total	3410	212	4840	673	Q	-	75-125	-	20
Antimony, Total	5.80	53.1	53.0	89		-	75-125	-	20
Arsenic, Total	17.5	12.7	28.1	83		-	75-125	-	20
Barium, Total	192	212	418	106		-	75-125	-	20
Beryllium, Total	0.410	5.31	4.88	84		-	75-125	-	20
Cadmium, Total	1.44	5.42	7.55	113		-	75-125	-	20
Calcium, Total	98400	1060	23400	0	Q	-	75-125	-	20
Chromium, Total	12.9	21.2	31.8	89		-	75-125	-	20
Cobalt, Total	5.29	53.1	49.4	83		-	75-125	-	20
Copper, Total	70.0	26.6	127	215	Q	-	75-125	-	20
Iron, Total	15300	106	33200	16800	Q	-	75-125	-	20
Lead, Total	300	54.2	678	698	Q	-	75-125	-	20
Magnesium, Total	2780	1060	4110	125		-	75-125	-	20
Manganese, Total	238	53.1	288	94		-	75-125	-	20
Nickel, Total	8.01	53.1	57.8	94		-	75-125	-	20
Potassium, Total	437	1060	1550	105		-	75-125	-	20
Selenium, Total	3.28	12.7	14.4	87		-	75-125	-	20
Silver, Total	0.673	31.9	31.4	96		-	75-125	-	20
Sodium, Total	1650	1060	1330	0	Q	-	75-125	-	20
Thallium, Total	ND	12.7	10.1	79		-	75-125	-	20
Vanadium, Total	16.5	53.1	62.6	87		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

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 QC Batch ID: WG1218691-3 QC Sample: L1911328-01 Client ID: MS Sample									
Zinc, Total	466	53.1	612	275	Q	-	-	75-125	- 20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911123

Report Date: 03/27/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1217901-4 QC Sample: L1909913-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1218691-4 QC Sample: L1911328-01 Client ID: DUP Sample						
Lead, Total	300	473	mg/kg	45	Q	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

SAMPLE RESULTS

Lab ID: L1911123-01
Client ID: RIMW2_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/20/19 16:40
Date Received: 03/20/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	03/21/19 04:40	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	03/21/19 10:20	03/21/19 13:55	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.840	0.168	1	03/21/19 14:43	03/21/19 23:00	1,7196A	AJ



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1217949-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	03/21/19 10:20	03/21/19 13:40	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1218237-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/21/19 14:43	03/21/19 23:00	1,7196A	AJ

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911123**Report Date:** 03/27/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1217949-2 WG1217949-3								
Cyanide, Total	92		82		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1218237-2								
Chromium, Hexavalent	94		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217949-4 WG1217949-5 QC Sample: L1911122-02 Client ID: MS Sample												
Cyanide, Total	ND	10	3.4	34	Q	3.6	36	Q	75-125	6		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1218237-4 QC Sample: L1911116-02 Client ID: MS Sample												
Chromium, Hexavalent	ND	889	997	112		-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1217839-1 QC Sample: L1911023-02 Client ID: DUP Sample						
Solids, Total	70.1	69.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1218237-6 QC Sample: L1911116-02 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No:03271918:14
Lab Number: L1911123
Report Date: 03/27/19

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(*)
L1911123-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L1911123-01B	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911123-01C	Vial water preserved	A	NA		2.3	Y	Absent	21-MAR-19 02:56	NYTCL-8260HLW-R2(14)
L1911123-01D	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L1911123-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	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)
L1911123-01F	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911123-01G	Glass 250ml/8oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911123**Project Number:** 16.6334**Report Date:** 03/27/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911123
Report Date: 03/27/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

[illegible]



ANALYTICAL REPORT

Lab Number:	L1911552
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II, TA1 SITE
Project Number:	16.6334
Report Date:	03/29/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911552-01	RIMW3D_54-56	SOIL	SCHENECTADY, NY	03/21/19 14:05	03/22/19
L1911552-02	RIMW3_10-12	SOIL	SCHENECTADY, NY	03/22/19 10:30	03/22/19

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

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

L1911552-01: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (34%) and the surrogate recovery for 4-bromofluorobenzene (145%) were outside the acceptance criteria; however, re-analysis achieved similar results: chlorobenzene-d5 (47%), and 1,4-dichlorobenzene-d4 (17%) and 4-bromofluorobenzene (168%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

The WG1220986-12 Method Blank, associated with L1911552-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

L1911552-01 and -02: 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.

Cyanide, Total

The WG1218989-2 LCS recovery (77%), associated with L1911552-01 and -02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1219028-4 MS recovery (128%), performed on L1911552-02, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 101%.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 03/29/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-01
 Client ID: RIMW3D_54-56
 Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
 Date Received: 03/22/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/28/19 23:15
 Analyst: NLK
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	0.87		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.96	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-01**Date Collected:** 03/21/19 14:05**Client ID:** RIMW3D_54-56**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	5.8	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.98	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.1	0.72	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Tentatively Identified Compounds

Total TIC Compounds	2.08	J	ug/kg	1
Unknown	2.08	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	145	Q	70-130
Dibromofluoromethane	107		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01 R
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/19 09:30
Analyst: JC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	2.4		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.14	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.87	0.47	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.51	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.39	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	0.37	J	ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-01 R**Date Collected:** 03/21/19 14:05**Client ID:** RIMW3D_54-56**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Cyclohexane	ND		ug/kg	8.7	0.48	1
1,4-Dioxane	ND		ug/kg	70	31.	1
Freon-113	ND		ug/kg	3.5	0.60	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Tentatively Identified Compounds

Total TIC Compounds	7.48	J	ug/kg	1
Unknown	1.95	J	ug/kg	1
Unknown Cycloalkane	2.76	J	ug/kg	1
Unknown	2.77	J	ug/kg	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-01 R

Date Collected: 03/21/19 14:05

Client ID: RIMW3D_54-56

Date Received: 03/22/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	168	Q	70-130
Dibromofluoromethane	111		70-130

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/28/19 23:41
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.13	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.28	1
Tetrachloroethene	6.3		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.74	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.3	0.99	1
Bromomethane	ND		ug/kg	2.1	0.62	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.1	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.53	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	0.98	1
Acetone	ND		ug/kg	11	5.1	1
Carbon disulfide	ND		ug/kg	11	4.8	1
2-Butanone	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
Methyl Acetate	ND		ug/kg	4.3	1.0	1
Cyclohexane	ND		ug/kg	11	0.58	1
1,4-Dioxane	ND		ug/kg	85	37.	1
Freon-113	ND		ug/kg	4.3	0.74	1
Methyl cyclohexane	ND		ug/kg	4.3	0.64	1

Tentatively Identified Compounds

Total TIC Compounds	3.41	J	ug/kg	1
Cyclobutane, methyl-	3.41	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/29/19 07:45
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.6		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/29/19 07:45
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-12					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	3.94	J	ug/kg
Unknown	3.94	J	ug/kg

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/29/19 07:45
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-12					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/28/19 19:48
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1220986-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/28/19 19:48
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1220986-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.22	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	3.70	J	ug/kg
Unknown	3.70	J	ug/kg

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/28/19 19:48
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1220986-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-10 WG1220986-11								
Methylene chloride	90		83		70-130	8		30
1,1-Dichloroethane	94		88		70-130	7		30
Chloroform	101		95		70-130	6		30
Carbon tetrachloride	102		96		70-130	6		30
1,2-Dichloropropane	92		86		70-130	7		30
Dibromochloromethane	93		88		70-130	6		30
1,1,2-Trichloroethane	94		91		70-130	3		30
Tetrachloroethene	94		87		70-130	8		30
Chlorobenzene	91		85		70-130	7		30
Trichlorofluoromethane	104		98		70-139	6		30
1,2-Dichloroethane	100		97		70-130	3		30
1,1,1-Trichloroethane	101		93		70-130	8		30
Bromodichloromethane	97		94		70-130	3		30
trans-1,3-Dichloropropene	98		94		70-130	4		30
cis-1,3-Dichloropropene	96		90		70-130	6		30
Bromoform	98		94		70-130	4		30
1,1,2,2-Tetrachloroethane	92		85		70-130	8		30
Benzene	94		88		70-130	7		30
Toluene	93		86		70-130	8		30
Ethylbenzene	93		87		70-130	7		30
Chloromethane	83		77		52-130	8		30
Bromomethane	151	Q	135		57-147	11		30
Vinyl chloride	85		80		67-130	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-10 WG1220986-11								
Chloroethane	94		89		50-151	5		30
1,1-Dichloroethene	91		84		65-135	8		30
trans-1,2-Dichloroethene	93		86		70-130	8		30
Trichloroethene	93		87		70-130	7		30
1,2-Dichlorobenzene	91		85		70-130	7		30
1,3-Dichlorobenzene	92		85		70-130	8		30
1,4-Dichlorobenzene	92		85		70-130	8		30
Methyl tert butyl ether	101		97		66-130	4		30
p/m-Xylene	90		84		70-130	7		30
o-Xylene	91		85		70-130	7		30
cis-1,2-Dichloroethene	94		88		70-130	7		30
Styrene	90		85		70-130	6		30
Dichlorodifluoromethane	88		82		30-146	7		30
Acetone	101		93		54-140	8		30
Carbon disulfide	91		85		59-130	7		30
2-Butanone	90		90		70-130	0		30
4-Methyl-2-pentanone	89		85		70-130	5		30
2-Hexanone	89		85		70-130	5		30
Bromochloromethane	97		91		70-130	6		30
1,2-Dibromoethane	93		89		70-130	4		30
1,2-Dibromo-3-chloropropane	92		88		68-130	4		30
Isopropylbenzene	92		84		70-130	9		30
1,2,3-Trichlorobenzene	96		90		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-10 WG1220986-11								
1,2,4-Trichlorobenzene	95		88		70-130	8		30
Methyl Acetate	90		86		51-146	5		30
Cyclohexane	87		81		59-142	7		30
1,4-Dioxane	102		97		65-136	5		30
Freon-113	96		89		50-139	8		30
Methyl cyclohexane	92		85		70-130	8		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		108		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1220986-3 WG1220986-4								
Methylene chloride	80		78		70-130	3		30
1,1-Dichloroethane	88		87		70-130	1		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	98		98		70-130	0		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	88		87		70-130	1		30
1,1,2-Trichloroethane	88		87		70-130	1		30
Tetrachloroethene	84		82		70-130	2		30
Chlorobenzene	82		80		70-130	2		30
Trichlorofluoromethane	103		102		70-139	1		30
1,2-Dichloroethane	99		99		70-130	0		30
1,1,1-Trichloroethane	96		94		70-130	2		30
Bromodichloromethane	93		92		70-130	1		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	84		85		70-130	1		30
Benzene	83		83		70-130	0		30
Toluene	84		82		70-130	2		30
Ethylbenzene	85		84		70-130	1		30
Chloromethane	77		76		52-130	1		30
Bromomethane	107		112		57-147	5		30
Vinyl chloride	78		77		67-130	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1220986-3 WG1220986-4								
Chloroethane	85		84		50-151	1		30
1,1-Dichloroethene	80		80		65-135	0		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	85		83		70-130	2		30
1,2-Dichlorobenzene	83		82		70-130	1		30
1,3-Dichlorobenzene	82		82		70-130	0		30
1,4-Dichlorobenzene	81		82		70-130	1		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	82		80		70-130	2		30
o-Xylene	82		82		70-130	0		30
cis-1,2-Dichloroethene	84		83		70-130	1		30
Styrene	81		80		70-130	1		30
Dichlorodifluoromethane	85		84		30-146	1		30
Acetone	98		95		54-140	3		30
Carbon disulfide	80		80		59-130	0		30
2-Butanone	92		91		70-130	1		30
4-Methyl-2-pentanone	88		85		70-130	3		30
2-Hexanone	88		87		70-130	1		30
Bromochloromethane	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
1,2-Dibromo-3-chloropropane	86		88		68-130	2		30
Isopropylbenzene	82		82		70-130	0		30
1,2,3-Trichlorobenzene	86		87		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1220986-3 WG1220986-4								
1,2,4-Trichlorobenzene	86		86		70-130	0		30
Methyl Acetate	89		88		51-146	1		30
Cyclohexane	82		81		59-142	1		30
1,4-Dioxane	103		102		65-136	1		30
Freon-113	87		88		50-139	1		30
Methyl cyclohexane	83		84		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	102		104		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/28/19 19:13
Analyst: HL
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

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	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	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	580	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	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	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	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-01**Date Collected:** 03/21/19 14:05**Client ID:** RIMW3D_54-56**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
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	24.	1
Fluorene	ND		ug/kg	200	20.	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	460	47.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	83.	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	76.	1
4-Nitrophenol	ND		ug/kg	280	82.	1
2,4-Dinitrophenol	ND		ug/kg	960	94.	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	20.	1
Atrazine	ND		ug/kg	160	70.	1
Benzaldehyde	ND		ug/kg	260	54.	1

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	61.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	52		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/28/19 19:37
Analyst: HL
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

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	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-02**Date Collected:** 03/22/19 10:30**Client ID:** RIMW3_10-12**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	406	J	ug/kg			1
Unknown Amide	406	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	67		18-120

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/29/19 01:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1219928-1					
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	32.
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	460	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	55.
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: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/29/19 01:08
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1219928-1					
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	67.
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	66.
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: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/29/19 01:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 03/27/19 02:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1219928-1					
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

Total TIC Compounds	191	J	ug/kg
Unknown	191	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1219928-2 WG1219928-3								
Acenaphthene	86		74		31-137	15		50
Hexachlorobenzene	82		73		40-140	12		50
Bis(2-chloroethyl)ether	74		68		40-140	8		50
2-Chloronaphthalene	74		70		40-140	6		50
3,3'-Dichlorobenzidine	65		64		40-140	2		50
2,4-Dinitrotoluene	96		85		40-132	12		50
2,6-Dinitrotoluene	82		82		40-140	0		50
Fluoranthene	83		74		40-140	11		50
4-Chlorophenyl phenyl ether	82		74		40-140	10		50
4-Bromophenyl phenyl ether	83		75		40-140	10		50
Bis(2-chloroisopropyl)ether	71		66		40-140	7		50
Bis(2-chloroethoxy)methane	76		70		40-117	8		50
Hexachlorobutadiene	74		70		40-140	6		50
Hexachlorocyclopentadiene	71		69		40-140	3		50
Hexachloroethane	69		64		40-140	8		50
Isophorone	80		73		40-140	9		50
Naphthalene	76		70		40-140	8		50
Nitrobenzene	76		71		40-140	7		50
NDPA/DPA	85		75		36-157	13		50
n-Nitrosodi-n-propylamine	79		73		32-121	8		50
Bis(2-ethylhexyl)phthalate	92		84		40-140	9		50
Butyl benzyl phthalate	87		80		40-140	8		50
Di-n-butylphthalate	93		84		40-140	10		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1219928-2 WG1219928-3								
Di-n-octylphthalate	95		85		40-140	11		50
Diethyl phthalate	85		76		40-140	11		50
Dimethyl phthalate	77		75		40-140	3		50
Benzo(a)anthracene	86		78		40-140	10		50
Benzo(a)pyrene	89		82		40-140	8		50
Benzo(b)fluoranthene	88		84		40-140	5		50
Benzo(k)fluoranthene	87		82		40-140	6		50
Chrysene	81		74		40-140	9		50
Acenaphthylene	76		75		40-140	1		50
Anthracene	86		77		40-140	11		50
Benzo(ghi)perylene	83		80		40-140	4		50
Fluorene	84		76		40-140	10		50
Phenanthrene	82		73		40-140	12		50
Dibenzo(a,h)anthracene	84		76		40-140	10		50
Indeno(1,2,3-cd)pyrene	86		78		40-140	10		50
Pyrene	80		73		35-142	9		50
Biphenyl	78		75		54-104	4		50
4-Chloroaniline	40		48		40-140	18		50
2-Nitroaniline	87		85		47-134	2		50
3-Nitroaniline	55		58		26-129	5		50
4-Nitroaniline	83		77		41-125	8		50
Dibenzofuran	83		74		40-140	11		50
2-Methylnaphthalene	77		71		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1219928-2 WG1219928-3								
1,2,4,5-Tetrachlorobenzene	78		75		40-117	4		50
Acetophenone	82		76		14-144	8		50
2,4,6-Trichlorophenol	87		82		30-130	6		50
p-Chloro-m-cresol	84		79		26-103	6		50
2-Chlorophenol	78		72		25-102	8		50
2,4-Dichlorophenol	83		76		30-130	9		50
2,4-Dimethylphenol	78		73		30-130	7		50
2-Nitrophenol	82		76		30-130	8		50
4-Nitrophenol	96		84		11-114	13		50
2,4-Dinitrophenol	83		72		4-130	14		50
4,6-Dinitro-o-cresol	86		76		10-130	12		50
Pentachlorophenol	84		72		17-109	15		50
Phenol	76		70		26-90	8		50
2-Methylphenol	80		74		30-130.	8		50
3-Methylphenol/4-Methylphenol	80		74		30-130	8		50
2,4,5-Trichlorophenol	86		79		30-130	8		50
Carbazole	87		78		54-128	11		50
Atrazine	105		91		40-140	14		50
Benzaldehyde	76		72		40-140	5		50
Caprolactam	101		92		15-130	9		50
2,3,4,6-Tetrachlorophenol	89		82		40-140	8		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1219928-2 WG1219928-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		73		25-120
Phenol-d6	78		71		10-120
Nitrobenzene-d5	77		71		23-120
2-Fluorobiphenyl	77		72		30-120
2,4,6-Tribromophenol	94		85		10-136
4-Terphenyl-d14	81		74		18-120

PCBS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/28/19 19:53
Analyst: HT
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 03/26/19 18:08
Cleanup Method: EPA 3665A
Cleanup Date: 03/27/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.7	3.52	1	A
Aroclor 1221	ND		ug/kg	39.7	3.98	1	A
Aroclor 1232	ND		ug/kg	39.7	8.41	1	A
Aroclor 1242	ND		ug/kg	39.7	5.35	1	A
Aroclor 1248	ND		ug/kg	39.7	5.95	1	A
Aroclor 1254	ND		ug/kg	39.7	4.34	1	A
Aroclor 1260	ND		ug/kg	39.7	7.33	1	A
Aroclor 1262	ND		ug/kg	39.7	5.04	1	A
Aroclor 1268	ND		ug/kg	39.7	4.11	1	A
PCBs, Total	ND		ug/kg	39.7	3.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/28/19 20:06
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/26/19 18:08
Cleanup Method: EPA 3665A
Cleanup Date: 03/27/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	3.21	1	A
Aroclor 1221	ND		ug/kg	36.2	3.62	1	A
Aroclor 1232	ND		ug/kg	36.2	7.67	1	A
Aroclor 1242	ND		ug/kg	36.2	4.88	1	A
Aroclor 1248	ND		ug/kg	36.2	5.42	1	A
Aroclor 1254	ND		ug/kg	36.2	3.96	1	A
Aroclor 1260	ND		ug/kg	36.2	6.68	1	A
Aroclor 1262	ND		ug/kg	36.2	4.59	1	A
Aroclor 1268	ND		ug/kg	36.2	3.75	1	A
PCBs, Total	ND		ug/kg	36.2	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/28/19 18:10
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/26/19 18:08
Cleanup Method: EPA 3665A
Cleanup Date: 03/27/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1219831-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.70	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.74	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.84	A
Aroclor 1262	ND		ug/kg	31.6	4.02	A
Aroclor 1268	ND		ug/kg	31.6	3.28	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	68		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1219831-2 WG1219831-3									
Aroclor 1016	80		73		40-140	9		50	A
Aroclor 1260	74		69		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		66		30-150	A
Decachlorobiphenyl	74		67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		68		30-150	B
Decachlorobiphenyl	76		71		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/28/19 12:35
Analyst: SL
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 08:15
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.93	0.378	1	A
Lindane	ND		ug/kg	0.805	0.360	1	A
Alpha-BHC	ND		ug/kg	0.805	0.229	1	A
Beta-BHC	ND		ug/kg	1.93	0.732	1	A
Heptachlor	ND		ug/kg	0.966	0.433	1	A
Aldrin	ND		ug/kg	1.93	0.680	1	A
Heptachlor epoxide	ND		ug/kg	3.62	1.09	1	A
Endrin	ND		ug/kg	0.805	0.330	1	A
Endrin aldehyde	ND		ug/kg	2.42	0.845	1	A
Endrin ketone	ND		ug/kg	1.93	0.498	1	A
Dieldrin	ND		ug/kg	1.21	0.604	1	A
4,4'-DDE	ND		ug/kg	1.93	0.447	1	A
4,4'-DDD	ND		ug/kg	1.93	0.689	1	A
4,4'-DDT	ND		ug/kg	3.62	1.55	1	A
Endosulfan I	ND		ug/kg	1.93	0.456	1	A
Endosulfan II	ND		ug/kg	1.93	0.646	1	A
Endosulfan sulfate	ND		ug/kg	0.805	0.383	1	A
Methoxychlor	ND		ug/kg	3.62	1.13	1	A
Toxaphene	ND		ug/kg	36.2	10.1	1	A
cis-Chlordane	ND		ug/kg	2.42	0.673	1	A
trans-Chlordane	ND		ug/kg	2.42	0.638	1	A
Chlordane	ND		ug/kg	15.7	6.40	1	A

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-01**Date Collected:** 03/21/19 14:05**Client ID:** RIMW3D_54-56**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	126		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	136		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/28/19 12:48
Analyst: SL
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/27/19 08:15
Cleanup Method: EPA 3620B
Cleanup Date: 03/28/19

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	0.728	0.326	1	A
Alpha-BHC	ND	IP	ug/kg	0.728	0.207	1	B
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	0.728	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	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	ND		ug/kg	3.28	1.41	1	A
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	0.728	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911552-02**Date Collected:** 03/22/19 10:30**Client ID:** RIMW3_10-12**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	129		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	119		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/27/19 18:20
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 03/26/19 09:52
Cleanup Method: EPA 3620B
Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1219578-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.4	5.07	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/27/19 18:20
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/26/19 09:52
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/27/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1219578-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	120		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1219578-2 WG1219578-3									
Delta-BHC	109		95		30-150	14		30	A
Lindane	105		94		30-150	11		30	A
Alpha-BHC	108		96		30-150	12		30	A
Beta-BHC	108		97		30-150	11		30	A
Heptachlor	111		99		30-150	11		30	A
Aldrin	97		87		30-150	11		30	A
Heptachlor epoxide	119		103		30-150	14		30	A
Endrin	116		102		30-150	13		30	A
Endrin aldehyde	86		74		30-150	15		30	A
Endrin ketone	112		98		30-150	13		30	A
Dieldrin	106		94		30-150	12		30	A
4,4'-DDE	92		82		30-150	11		30	A
4,4'-DDD	102		91		30-150	11		30	A
4,4'-DDT	109		96		30-150	13		30	A
Endosulfan I	95		85		30-150	11		30	A
Endosulfan II	105		93		30-150	12		30	A
Endosulfan sulfate	105		90		30-150	15		30	A
Methoxychlor	105		93		30-150	12		30	A
cis-Chlordane	80		74		30-150	8		30	A
trans-Chlordane	73		69		30-150	6		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1219578-2 WG1219578-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		85		30-150	B
Decachlorobiphenyl	113		105		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		83		30-150	A
Decachlorobiphenyl	124		111		30-150	A

METALS

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-01

Date Collected: 03/21/19 14:05

Client ID: RIMW3D_54-56

Date Received: 03/22/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6250		mg/kg	9.42	2.54	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.71	0.358	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Arsenic, Total	3.03		mg/kg	0.942	0.196	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Barium, Total	71.0		mg/kg	0.942	0.164	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Beryllium, Total	0.179	J	mg/kg	0.471	0.031	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Cadmium, Total	0.254	J	mg/kg	0.942	0.092	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Calcium, Total	26100		mg/kg	9.42	3.30	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Chromium, Total	7.81		mg/kg	0.942	0.090	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Cobalt, Total	6.03		mg/kg	1.88	0.156	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Copper, Total	9.40		mg/kg	0.942	0.243	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Iron, Total	15200		mg/kg	4.71	0.851	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Lead, Total	5.37		mg/kg	4.71	0.252	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Magnesium, Total	5980		mg/kg	9.42	1.45	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Manganese, Total	304		mg/kg	0.942	0.150	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.078	0.017	1	03/25/19 08:00	03/25/19 12:24	EPA 7471B	1,7471B	GD
Nickel, Total	9.01		mg/kg	2.36	0.228	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Potassium, Total	717		mg/kg	236	13.6	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.88	0.243	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.942	0.267	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Sodium, Total	200		mg/kg	188	2.97	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.88	0.297	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Vanadium, Total	17.0		mg/kg	0.942	0.191	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB
Zinc, Total	33.1		mg/kg	4.71	0.276	2	03/26/19 19:16	03/29/19 00:12	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911552**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911552-02

Date Collected: 03/22/19 10:30

Client ID: RIMW3_10-12

Date Received: 03/22/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2780		mg/kg	8.33	2.25	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.16	0.316	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Arsenic, Total	2.55		mg/kg	0.833	0.173	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Barium, Total	8.59		mg/kg	0.833	0.145	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Beryllium, Total	0.158	J	mg/kg	0.416	0.028	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Cadmium, Total	0.166	J	mg/kg	0.833	0.082	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Calcium, Total	968		mg/kg	8.33	2.91	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Chromium, Total	3.89		mg/kg	0.833	0.080	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Cobalt, Total	3.03		mg/kg	1.66	0.138	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Copper, Total	7.87		mg/kg	0.833	0.215	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Iron, Total	8600		mg/kg	4.16	0.752	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Lead, Total	3.30	J	mg/kg	4.16	0.223	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Magnesium, Total	1130		mg/kg	8.33	1.28	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Manganese, Total	208		mg/kg	0.833	0.132	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.069	0.015	1	03/25/19 08:00	03/25/19 12:33	EPA 7471B	1,7471B	GD
Nickel, Total	6.57		mg/kg	2.08	0.202	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Potassium, Total	248		mg/kg	208	12.0	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.66	0.215	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.833	0.236	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Sodium, Total	84.6	J	mg/kg	166	2.62	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.262	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Vanadium, Total	7.87		mg/kg	0.833	0.169	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB
Zinc, Total	20.5		mg/kg	4.16	0.244	2	03/26/19 19:16	03/29/19 00:16	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

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): 01-02 Batch: WG1219096-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/25/19 08:00	03/25/19 11:54	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1219830-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Sodium, Total	1.62	J	mg/kg	80.0	1.26	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1219096-2 SRM Lot Number: D101-540								
Mercury, Total	103		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1219830-2 SRM Lot Number: D101-540					
Aluminum, Total	74	-	50-151	-	
Antimony, Total	150	-	3-196	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	101	-	83-117	-	
Cadmium, Total	104	-	83-117	-	
Calcium, Total	98	-	81-119	-	
Chromium, Total	102	-	81-118	-	
Cobalt, Total	103	-	84-116	-	
Copper, Total	100	-	83-116	-	
Iron, Total	95	-	62-138	-	
Lead, Total	102	-	83-117	-	
Magnesium, Total	90	-	76-124	-	
Manganese, Total	103	-	82-118	-	
Nickel, Total	101	-	82-117	-	
Potassium, Total	89	-	71-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	107	-	72-127	-	
Thallium, Total	107	-	81-119	-	
Vanadium, Total	101	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911552**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1219830-2 SRM Lot Number: D101-540					
Zinc, Total	102	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

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): 01-02 QC Batch ID: WG1219096-3 WG1219096-4 QC Sample: L1911499-07 Client ID: MS Sample												
Mercury, Total	ND	0.134	0.121	90		0.120	89		80-120	1		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

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): 01-02			QC Batch ID: WG1219830-3			QC Sample: L1911499-08		Client ID: MS Sample		
Aluminum, Total	2400	157	3490	695	Q	-	-	75-125	-	20
Antimony, Total	ND	39.2	35.2	90		-	-	75-125	-	20
Arsenic, Total	0.518J	9.41	10.3	109		-	-	75-125	-	20
Barium, Total	16.8	157	176	101		-	-	75-125	-	20
Beryllium, Total	0.089J	3.92	3.68	94		-	-	75-125	-	20
Cadmium, Total	0.146J	4	3.81	95		-	-	75-125	-	20
Calcium, Total	200000	784	214000	1780	Q	-	-	75-125	-	20
Chromium, Total	5.56	15.7	20.5	95		-	-	75-125	-	20
Cobalt, Total	1.52J	39.2	36.0	92		-	-	75-125	-	20
Copper, Total	4.95	19.6	24.9	102		-	-	75-125	-	20
Iron, Total	6160	78.4	6560	510	Q	-	-	75-125	-	20
Lead, Total	8.65	40	42.8	85		-	-	75-125	-	20
Magnesium, Total	91500	784	92600	140	Q	-	-	75-125	-	20
Manganese, Total	239	39.2	284	115		-	-	75-125	-	20
Nickel, Total	3.33	39.2	37.1	86		-	-	75-125	-	20
Potassium, Total	512	784	1410	114		-	-	75-125	-	20
Selenium, Total	ND	9.41	9.52	101		-	-	75-125	-	20
Silver, Total	ND	23.5	26.0	110		-	-	75-125	-	20
Sodium, Total	127J	784	1020	130	Q	-	-	75-125	-	20
Thallium, Total	ND	9.41	7.51	80		-	-	75-125	-	20
Vanadium, Total	7.06	39.2	46.9	102		-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

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): 01-02 QC Batch ID: WG1219830-3 QC Sample: L1911499-08 Client ID: MS Sample									
Zinc, Total	15.5	39.2	50.4	89	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample						
Aluminum, Total	2400	2720	mg/kg	13		20
Antimony, Total	ND	0.319J	mg/kg	NC		20
Arsenic, Total	0.518J	0.405J	mg/kg	NC		20
Barium, Total	16.8	17.3	mg/kg	3		20
Beryllium, Total	0.089J	0.101J	mg/kg	NC		20
Cadmium, Total	0.146J	0.148J	mg/kg	NC		20
Chromium, Total	5.56	5.97	mg/kg	7		20
Cobalt, Total	1.52J	1.63	mg/kg	NC		20
Copper, Total	4.95	103	mg/kg	182	Q	20
Iron, Total	6160	6310	mg/kg	2		20
Lead, Total	8.65	7.45	mg/kg	15		20
Magnesium, Total	91500	94300	mg/kg	3		20
Manganese, Total	239	249	mg/kg	4		20
Nickel, Total	3.33	3.53	mg/kg	6		20
Potassium, Total	512	541	mg/kg	6		20
Selenium, Total	ND	0.257J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	127J	146J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample					
Vanadium, Total	7.06	7.61	mg/kg	7	20
Zinc, Total	15.5	13.9	mg/kg	11	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample					
Calcium, Total	200000	225000	mg/kg	12	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-01
Client ID: RIMW3D_54-56
Sample Location: SCHENECTADY, NY

Date Collected: 03/21/19 14:05
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.4		%	0.100	NA	1	-	03/23/19 11:47	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	03/24/19 12:40	03/25/19 12:57	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.995	0.199	1	03/24/19 14:02	03/25/19 11:11	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911552-02
Client ID: RIMW3_10-12
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:30
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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	-	03/23/19 11:47	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	03/24/19 12:40	03/25/19 12:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.886	0.177	1	03/24/19 14:02	03/25/19 11:11	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1218989-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	03/24/19 12:40	03/25/19 12:40	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1219028-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/24/19 14:02	03/25/19 11:11	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911552

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1218989-2 WG1218989-3								
Cyanide, Total	77	Q	86		80-120	14		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1219028-2								
Chromium, Hexavalent	85		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911552

Project Number: 16.6334

Report Date: 03/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1218989-4 WG1218989-5 QC Sample: L1911554-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		10	91		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1219028-4 QC Sample: L1911552-02 Client ID: RIMW3_10-12												
Chromium, Hexavalent	ND	1410	1800	128	Q	-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1218831-1 QC Sample: L1911625-46 Client ID: DUP Sample						
Solids, Total	89.5	89.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1219028-6 QC Sample: L1911552-02 Client ID: RIMW3_10-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Serial_No: 03291916:57
Lab Number: L1911552
Report Date: 03/29/19

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(*)
L1911552-01A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1911552-01B	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 08:12	NYTCL-8260HLW-R2(14)
L1911552-01C	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 08:12	NYTCL-8260HLW-R2(14)
L1911552-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	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)
L1911552-01E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911552-01F	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911552-02A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1911552-02B	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 08:12	NYTCL-8260HLW-R2(14)
L1911552-02C	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 08:12	NYTCL-8260HLW-R2(14)
L1911552-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	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)
L1911552-02E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911552-02F	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911552
Report Date: 03/29/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.** **EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

[illegible]



ANALYTICAL REPORT

Lab Number:	L1911554
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II, TA1 SITE
Project Number:	16.6334
Report Date:	03/29/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911554-01	RIMW3_8-10	SOIL	SCHENECTADY, NY	03/22/19 10:15	03/22/19

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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.

Total Metals

L1911554-01: 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.

Cyanide, Total

The WG1218989-2 LCS recovery (77%), associated with L1911554-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 03/29/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 03/29/19 00:06
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	12		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/28/19 19:48
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/28/19 19:48
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.22	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

Total TIC Compounds	3.70	J	ug/kg
Unknown	3.70	J	ug/kg

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 03/28/19 19:48

Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1220986-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-3 WG1220986-4								
Methylene chloride	80		78		70-130	3		30
1,1-Dichloroethane	88		87		70-130	1		30
Chloroform	93		93		70-130	0		30
Carbon tetrachloride	98		98		70-130	0		30
1,2-Dichloropropane	84		84		70-130	0		30
Dibromochloromethane	88		87		70-130	1		30
1,1,2-Trichloroethane	88		87		70-130	1		30
Tetrachloroethene	84		82		70-130	2		30
Chlorobenzene	82		80		70-130	2		30
Trichlorofluoromethane	103		102		70-139	1		30
1,2-Dichloroethane	99		99		70-130	0		30
1,1,1-Trichloroethane	96		94		70-130	2		30
Bromodichloromethane	93		92		70-130	1		30
trans-1,3-Dichloropropene	92		90		70-130	2		30
cis-1,3-Dichloropropene	88		88		70-130	0		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	84		85		70-130	1		30
Benzene	83		83		70-130	0		30
Toluene	84		82		70-130	2		30
Ethylbenzene	85		84		70-130	1		30
Chloromethane	77		76		52-130	1		30
Bromomethane	107		112		57-147	5		30
Vinyl chloride	78		77		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-3 WG1220986-4								
Chloroethane	85		84		50-151	1		30
1,1-Dichloroethene	80		80		65-135	0		30
trans-1,2-Dichloroethene	82		82		70-130	0		30
Trichloroethene	85		83		70-130	2		30
1,2-Dichlorobenzene	83		82		70-130	1		30
1,3-Dichlorobenzene	82		82		70-130	0		30
1,4-Dichlorobenzene	81		82		70-130	1		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	82		80		70-130	2		30
o-Xylene	82		82		70-130	0		30
cis-1,2-Dichloroethene	84		83		70-130	1		30
Styrene	81		80		70-130	1		30
Dichlorodifluoromethane	85		84		30-146	1		30
Acetone	98		95		54-140	3		30
Carbon disulfide	80		80		59-130	0		30
2-Butanone	92		91		70-130	1		30
4-Methyl-2-pentanone	88		85		70-130	3		30
2-Hexanone	88		87		70-130	1		30
Bromochloromethane	88		85		70-130	3		30
1,2-Dibromoethane	85		84		70-130	1		30
1,2-Dibromo-3-chloropropane	86		88		68-130	2		30
Isopropylbenzene	82		82		70-130	0		30
1,2,3-Trichlorobenzene	86		87		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1220986-3 WG1220986-4								
1,2,4-Trichlorobenzene	86		86		70-130	0		30
Methyl Acetate	89		88		51-146	1		30
Cyclohexane	82		81		59-142	1		30
1,4-Dioxane	103		102		65-136	1		30
Freon-113	87		88		50-139	1		30
Methyl cyclohexane	83		84		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		115		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	102		104		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/24/19 06:58
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

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	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	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	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS****Lab ID:** L1911554-01**Date Collected:** 03/22/19 10:15**Client ID:** RIMW3_8-10**Date Received:** 03/22/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911554-01

Date Collected: 03/22/19 10:15

Client ID: RIMW3_8-10

Date Received: 03/22/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Tentatively Identified Compounds

Total TIC Compounds	335	J	ug/kg			1
Unknown Amide	335	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	96		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	76		18-120

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 03/23/19 23:48
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218823-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8270D
Analytical Date: 03/23/19 23:48
Analyst: RCExtraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218823-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/23/19 23:48
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 03/23/19 09:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1218823-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
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	81		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218823-2 WG1218823-3								
Acenaphthene	82		74		31-137	10		50
Hexachlorobenzene	85		77		40-140	10		50
Bis(2-chloroethyl)ether	83		74		40-140	11		50
2-Chloronaphthalene	81		71		40-140	13		50
3,3'-Dichlorobenzidine	62		62		40-140	0		50
2,4-Dinitrotoluene	96		87		40-132	10		50
2,6-Dinitrotoluene	90		77		40-140	16		50
Fluoranthene	78		70		40-140	11		50
4-Chlorophenyl phenyl ether	77		68		40-140	12		50
4-Bromophenyl phenyl ether	81		72		40-140	12		50
Bis(2-chloroisopropyl)ether	95		85		40-140	11		50
Bis(2-chloroethoxy)methane	85		76		40-117	11		50
Hexachlorobutadiene	72		63		40-140	13		50
Hexachlorocyclopentadiene	55		48		40-140	14		50
Hexachloroethane	83		75		40-140	10		50
Isophorone	88		78		40-140	12		50
Naphthalene	78		69		40-140	12		50
Nitrobenzene	88		79		40-140	11		50
NDPA/DPA	87		77		36-157	12		50
n-Nitrosodi-n-propylamine	88		77		32-121	13		50
Bis(2-ethylhexyl)phthalate	104		94		40-140	10		50
Butyl benzyl phthalate	89		80		40-140	11		50
Di-n-butylphthalate	97		88		40-140	10		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218823-2 WG1218823-3								
Di-n-octylphthalate	123		109		40-140	12		50
Diethyl phthalate	95		84		40-140	12		50
Dimethyl phthalate	81		70		40-140	15		50
Benzo(a)anthracene	86		76		40-140	12		50
Benzo(a)pyrene	90		84		40-140	7		50
Benzo(b)fluoranthene	96		81		40-140	17		50
Benzo(k)fluoranthene	85		84		40-140	1		50
Chrysene	86		76		40-140	12		50
Acenaphthylene	80		70		40-140	13		50
Anthracene	80		72		40-140	11		50
Benzo(ghi)perylene	79		69		40-140	14		50
Fluorene	84		74		40-140	13		50
Phenanthrene	78		71		40-140	9		50
Dibenzo(a,h)anthracene	78		69		40-140	12		50
Indeno(1,2,3-cd)pyrene	80		71		40-140	12		50
Pyrene	79		72		35-142	9		50
Biphenyl	83		73		54-104	13		50
4-Chloroaniline	74		68		40-140	8		50
2-Nitroaniline	95		84		47-134	12		50
3-Nitroaniline	77		75		26-129	3		50
4-Nitroaniline	90		79		41-125	13		50
Dibenzofuran	85		76		40-140	11		50
2-Methylnaphthalene	79		69		40-140	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218823-2 WG1218823-3								
1,2,4,5-Tetrachlorobenzene	80		69		40-117	15		50
Acetophenone	89		79		14-144	12		50
2,4,6-Trichlorophenol	86		75		30-130	14		50
p-Chloro-m-cresol	98		86		26-103	13		50
2-Chlorophenol	90		78		25-102	14		50
2,4-Dichlorophenol	92		82		30-130	11		50
2,4-Dimethylphenol	93		82		30-130	13		50
2-Nitrophenol	97		87		30-130	11		50
4-Nitrophenol	107		95		11-114	12		50
2,4-Dinitrophenol	88		75		4-130	16		50
4,6-Dinitro-o-cresol	88		79		10-130	11		50
Pentachlorophenol	75		65		17-109	14		50
Phenol	85		74		26-90	14		50
2-Methylphenol	91		80		30-130	13		50
3-Methylphenol/4-Methylphenol	97		87		30-130	11		50
2,4,5-Trichlorophenol	90		78		30-130	14		50
Carbazole	84		76		54-128	10		50
Atrazine	83		76		40-140	9		50
Benzaldehyde	77		68		40-140	12		50
Caprolactam	123		108		15-130	13		50
2,3,4,6-Tetrachlorophenol	92		80		40-140	14		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1218823-2 WG1218823-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		77		25-120
Phenol-d6	86		75		10-120
Nitrobenzene-d5	90		80		23-120
2-Fluorobiphenyl	75		68		30-120
2,4,6-Tribromophenol	106		94		10-136
4-Terphenyl-d14	75		68		18-120

PCBS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/24/19 18:54
Analyst: WR
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 13:11
Cleanup Method: EPA 3665A
Cleanup Date: 03/24/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	3.14	1	A
Aroclor 1221	ND		ug/kg	35.4	3.54	1	A
Aroclor 1232	ND		ug/kg	35.4	7.50	1	A
Aroclor 1242	ND		ug/kg	35.4	4.77	1	A
Aroclor 1248	ND		ug/kg	35.4	5.30	1	A
Aroclor 1254	ND		ug/kg	35.4	3.87	1	A
Aroclor 1260	ND		ug/kg	35.4	6.54	1	A
Aroclor 1262	ND		ug/kg	35.4	4.49	1	A
Aroclor 1268	ND		ug/kg	35.4	3.66	1	A
PCBs, Total	ND		ug/kg	35.4	3.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/24/19 19:46
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 03/23/19 13:11
Cleanup Method: EPA 3665A
Cleanup Date: 03/24/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1218881-1						
Aroclor 1016	ND		ug/kg	31.6	2.81	A
Aroclor 1221	ND		ug/kg	31.6	3.17	A
Aroclor 1232	ND		ug/kg	31.6	6.71	A
Aroclor 1242	ND		ug/kg	31.6	4.26	A
Aroclor 1248	ND		ug/kg	31.6	4.75	A
Aroclor 1254	ND		ug/kg	31.6	3.46	A
Aroclor 1260	ND		ug/kg	31.6	5.85	A
Aroclor 1262	ND		ug/kg	31.6	4.02	A
Aroclor 1268	ND		ug/kg	31.6	3.28	A
PCBs, Total	ND		ug/kg	31.6	2.81	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	54		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218881-2 WG1218881-3									
Aroclor 1016	67		71		40-140	6		50	A
Aroclor 1260	65		65		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		60		30-150	A
Decachlorobiphenyl	54		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		61		30-150	B
Decachlorobiphenyl	55		59		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/24/19 16:06
Analyst: SL
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/23/19 08:20
Cleanup Method: EPA 3620B
Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.705	0.315	1	A
Alpha-BHC	ND		ug/kg	0.705	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	ND		ug/kg	0.846	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.951	1	A
Endrin	ND		ug/kg	0.705	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.528	1	A
4,4'-DDE	ND		ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.603	1	B
4,4'-DDT	ND		ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.565	1	A
Endosulfan sulfate	ND		ug/kg	0.705	0.335	1	A
Methoxychlor	ND		ug/kg	3.17	0.987	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.11	0.589	1	A
trans-Chlordane	ND		ug/kg	2.11	0.558	1	A
Chlordane	ND		ug/kg	13.7	5.60	1	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1218803-1						
Delta-BHC	ND		ug/kg	1.59	0.311	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.795	0.356	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.994	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.567	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.531	A
Endosulfan sulfate	ND		ug/kg	0.663	0.315	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.35	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/24/19 14:38
 Analyst: SL

Extraction Method: EPA 3546
 Extraction Date: 03/23/19 08:20
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/24/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1218803-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	86		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218803-2 WG1218803-3									
Delta-BHC	82		76		30-150	8		30	A
Lindane	82		76		30-150	8		30	A
Alpha-BHC	85		79		30-150	7		30	A
Beta-BHC	75		70		30-150	7		30	A
Heptachlor	81		75		30-150	8		30	A
Aldrin	80		73		30-150	9		30	A
Heptachlor epoxide	82		75		30-150	9		30	A
Endrin	83		77		30-150	8		30	A
Endrin aldehyde	60		56		30-150	7		30	A
Endrin ketone	68		63		30-150	8		30	A
Dieldrin	84		78		30-150	7		30	A
4,4'-DDE	78		72		30-150	8		30	A
4,4'-DDD	78		72		30-150	8		30	A
4,4'-DDT	86		80		30-150	7		30	A
Endosulfan I	74		68		30-150	8		30	A
Endosulfan II	72		68		30-150	6		30	A
Endosulfan sulfate	53		47		30-150	12		30	A
Methoxychlor	74		67		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	64		59		30-150	8		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1218803-2 WG1218803-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150	B
Decachlorobiphenyl	88		81		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		75		30-150	A
Decachlorobiphenyl	89		84		30-150	A

METALS

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911554-01

Date Collected: 03/22/19 10:15

Client ID: RIMW3_8-10

Date Received: 03/22/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3630		mg/kg	8.66	2.34	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.33	0.329	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Arsenic, Total	3.03		mg/kg	0.866	0.180	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Barium, Total	12.2		mg/kg	0.866	0.151	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Beryllium, Total	0.208	J	mg/kg	0.433	0.029	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Cadmium, Total	0.199	J	mg/kg	0.866	0.085	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Calcium, Total	1920		mg/kg	8.66	3.03	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Chromium, Total	5.32		mg/kg	0.866	0.083	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Cobalt, Total	3.57		mg/kg	1.73	0.144	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Copper, Total	10.2		mg/kg	0.866	0.223	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Iron, Total	10400		mg/kg	4.33	0.782	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Lead, Total	6.24		mg/kg	4.33	0.232	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Magnesium, Total	1500		mg/kg	8.66	1.33	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Manganese, Total	252		mg/kg	0.866	0.138	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.069	0.015	1	03/25/19 08:00	03/25/19 12:35	EPA 7471B	1,7471B	GD
Nickel, Total	7.83		mg/kg	2.16	0.210	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Potassium, Total	305		mg/kg	216	12.5	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.73	0.223	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.866	0.245	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Sodium, Total	123	J	mg/kg	173	2.73	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Thallium, Total	0.346	J	mg/kg	1.73	0.273	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Vanadium, Total	10.4		mg/kg	0.866	0.176	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB
Zinc, Total	27.6		mg/kg	4.33	0.254	2	03/26/19 19:16	03/29/19 00:21	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

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 Batch: WG1219096-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/25/19 08:00	03/25/19 11:54	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1219830-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Sodium, Total	1.62	J	mg/kg	80.0	1.26	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/26/19 19:16	03/28/19 22:18	1,6010D	AB

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911554**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1219096-2 SRM Lot Number: D101-540								
Mercury, Total	103		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1219830-2 SRM Lot Number: D101-540					
Aluminum, Total	74	-	50-151	-	
Antimony, Total	150	-	3-196	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	100	-	83-118	-	
Beryllium, Total	101	-	83-117	-	
Cadmium, Total	104	-	83-117	-	
Calcium, Total	98	-	81-119	-	
Chromium, Total	102	-	81-118	-	
Cobalt, Total	103	-	84-116	-	
Copper, Total	100	-	83-116	-	
Iron, Total	95	-	62-138	-	
Lead, Total	102	-	83-117	-	
Magnesium, Total	90	-	76-124	-	
Manganese, Total	103	-	82-118	-	
Nickel, Total	101	-	82-117	-	
Potassium, Total	89	-	71-130	-	
Selenium, Total	102	-	79-121	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	107	-	72-127	-	
Thallium, Total	107	-	81-119	-	
Vanadium, Total	101	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911554**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1219830-2 SRM Lot Number: D101-540					
Zinc, Total	102	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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 QC Batch ID: WG1219096-3 WG1219096-4 QC Sample: L1911499-07 Client ID: MS Sample												
Mercury, Total	ND	0.134	0.121	90		0.120	89		80-120	1		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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 QC Batch ID: WG1219830-3 QC Sample: L1911499-08 Client ID: MS Sample									
Aluminum, Total	2400	157	3490	695	Q	-	75-125	-	20
Antimony, Total	ND	39.2	35.2	90		-	75-125	-	20
Arsenic, Total	0.518J	9.41	10.3	109		-	75-125	-	20
Barium, Total	16.8	157	176	101		-	75-125	-	20
Beryllium, Total	0.089J	3.92	3.68	94		-	75-125	-	20
Cadmium, Total	0.146J	4	3.81	95		-	75-125	-	20
Calcium, Total	200000	784	214000	1780	Q	-	75-125	-	20
Chromium, Total	5.56	15.7	20.5	95		-	75-125	-	20
Cobalt, Total	1.52J	39.2	36.0	92		-	75-125	-	20
Copper, Total	4.95	19.6	24.9	102		-	75-125	-	20
Iron, Total	6160	78.4	6560	510	Q	-	75-125	-	20
Lead, Total	8.65	40	42.8	85		-	75-125	-	20
Magnesium, Total	91500	784	92600	140	Q	-	75-125	-	20
Manganese, Total	239	39.2	284	115		-	75-125	-	20
Nickel, Total	3.33	39.2	37.1	86		-	75-125	-	20
Potassium, Total	512	784	1410	114		-	75-125	-	20
Selenium, Total	ND	9.41	9.52	101		-	75-125	-	20
Silver, Total	ND	23.5	26.0	110		-	75-125	-	20
Sodium, Total	127J	784	1020	130	Q	-	75-125	-	20
Thallium, Total	ND	9.41	7.51	80		-	75-125	-	20
Vanadium, Total	7.06	39.2	46.9	102		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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 QC Batch ID: WG1219830-3 QC Sample: L1911499-08 Client ID: MS Sample									
Zinc, Total	15.5	39.2	50.4	89	-	-	75-125	-	20

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1911554
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample						
Aluminum, Total	2400	2720	mg/kg	13		20
Antimony, Total	ND	0.319J	mg/kg	NC		20
Arsenic, Total	0.518J	0.405J	mg/kg	NC		20
Barium, Total	16.8	17.3	mg/kg	3		20
Beryllium, Total	0.089J	0.101J	mg/kg	NC		20
Cadmium, Total	0.146J	0.148J	mg/kg	NC		20
Chromium, Total	5.56	5.97	mg/kg	7		20
Cobalt, Total	1.52J	1.63	mg/kg	NC		20
Copper, Total	4.95	103	mg/kg	182	Q	20
Iron, Total	6160	6310	mg/kg	2		20
Lead, Total	8.65	7.45	mg/kg	15		20
Magnesium, Total	91500	94300	mg/kg	3		20
Manganese, Total	239	249	mg/kg	4		20
Nickel, Total	3.33	3.53	mg/kg	6		20
Potassium, Total	512	541	mg/kg	6		20
Selenium, Total	ND	0.257J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	127J	146J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE

Project Number: 16.6334

Lab Number: L1911554

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample					
Vanadium, Total	7.06	7.61	mg/kg	7	20
Zinc, Total	15.5	13.9	mg/kg	11	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1219830-4 QC Sample: L1911499-08 Client ID: DUP Sample					
Calcium, Total	200000	225000	mg/kg	12	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911554-01
Client ID: RIMW3_8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/22/19 10:15
Date Received: 03/22/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	03/23/19 13:48	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	03/24/19 12:40	03/25/19 12:59	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.880	0.176	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH



Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1218989-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	03/24/19 12:40	03/25/19 12:40	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1220210-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II, TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911554**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1218989-2 WG1218989-3								
Cyanide, Total	77	Q	86		80-120	14		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1220210-2								
Chromium, Hexavalent	92		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II, TA1 SITE

Lab Number: L1911554

Project Number: 16.6334

Report Date: 03/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1218989-4 WG1218989-5 QC Sample: L1911554-01 Client ID: RIMW3_8-10												
Cyanide, Total	ND	11	11	100		10	91		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1220210-4 WG1220210-5 QC Sample: L1911987-04 Client ID: MS Sample												
Chromium, Hexavalent	ND	944	1100	116		1610	119		75-125	3		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1218844-1 QC Sample: L1911550-01 Client ID: DUP Sample						
Solids, Total	80.5	80.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1220210-7 QC Sample: L1911987-04 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II, TA1 SITE**Lab Number:** L1911554**Project Number:** 16.6334**Report Date:** 03/29/19**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(*)
L1911554-01A	Vial MeOH preserved	A	NA		2.4	Y	Absent		NYTCL-8260HLW-R2(14)
L1911554-01B	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 07:05	NYTCL-8260HLW-R2(14)
L1911554-01C	Vial water preserved	A	NA		2.4	Y	Absent	23-MAR-19 07:05	NYTCL-8260HLW-R2(14)
L1911554-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.4	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)
L1911554-01E	Glass 120ml/4oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911554-01F	Glass 250ml/8oz unpreserved	A	NA		2.4	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II, TA1 SITE
Project Number: 16.6334

Lab Number: L1911554
Report Date: 03/29/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 3/23/19		ALPHA Job # L1911554																																																																																																																																																																																																																																			
		Project Information Project Name: <u>Hamilton Hill II TAI site</u> Project Location: <u>Schenectady, NY</u> Project # <u>K-6334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #																																																																																																																																																																																																																																					
Client Information Client: <u>C. S. Mac Associates</u> Address: <u>50 Century Hill Dr</u> <u>Catham NY 12110</u> Phone: <u>518 786 7400</u> Fax: <u>A.Smith@crmak.com</u> Email: <u>K.Moline@crmak.com</u>		Project Manager: <u>Kirk Moline</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☒ # of Days: <u>48 Hour</u>		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																																																																																					
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS TCL VOC+PCE TCL SVOC+PCE TCL PCB TCL PCB TAL Metals incl. mercury hexachlorocyclopentadiene		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																																																																																																																					
Please specify Metals or TAL.		Sample Specific Comments																																																																																																																																																																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="10">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> <th rowspan="2">Total Bottles</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>TCL VOC+PCE</th> <th>TCL SVOC+PCE</th> <th>TCL PCB</th> <th>TCL PCB</th> <th>TAL Metals</th> <th>incl. mercury</th> <th>hexachlorocyclopentadiene</th> <th> </th> <th> </th> <th> </th> <th> </th> </tr> </thead> <tbody> <tr> <td>11554-01</td> <td>RIMW3-8-10</td> <td>3/22/2019</td> <td>1015</td> <td>Soil</td> <td>DA</td> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td> <td>Normal TAT</td> <td>6</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	Total Bottles	Date	Time	TCL VOC+PCE	TCL SVOC+PCE	TCL PCB	TCL PCB	TAL Metals	incl. mercury	hexachlorocyclopentadiene					11554-01	RIMW3-8-10	3/22/2019	1015	Soil	DA	X	X	X	X	X	X							Normal TAT	6																																																																																																																																																																												Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type UA A A A A A		Preservative F A A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
ALPHA Lab ID (Lab Use Only)	Sample ID			Collection				Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	Total Bottles																																																																																																																																																																																																																						
		Date	Time	TCL VOC+PCE	TCL SVOC+PCE	TCL PCB	TCL PCB			TAL Metals	incl. mercury	hexachlorocyclopentadiene																																																																																																																																																																																																																															
11554-01	RIMW3-8-10	3/22/2019	1015	Soil	DA	X	X	X	X	X	X							Normal TAT	6																																																																																																																																																																																																																								
Form No: 01-25 HC (rev. 30-Sept-2013)		Relinquished By: <u>[Signature]</u> Date/Time: <u>3/22/19 1430</u>		Received By: <u>[Signature]</u> Date/Time: <u>3/22/19 1430</u>		Relinquished By: <u>[Signature]</u> Date/Time: <u>3/22/19 1435</u>		Received By: <u>[Signature]</u> Date/Time: <u>3/23/19 0115</u>																																																																																																																																																																																																																																			



ANALYTICAL REPORT

Lab Number:	L1911778
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II-TA1 SITE
Project Number:	16.6334
Report Date:	03/29/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911778-01	RISB8_6-8	SOIL	SCHENECTADY, NY	03/15/19 10:30	03/15/19

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

Case Narrative (continued)

Report Submission

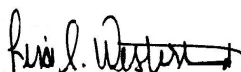
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1911778-01: 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:



Lisa Westerlind

Title: Technical Director/Representative

Date: 03/29/19

METALS

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911778**Project Number:** 16.6334**Report Date:** 03/29/19**SAMPLE RESULTS**

Lab ID: L1911778-01

Date Collected: 03/15/19 10:30

Client ID: RISB8_6-8

Date Received: 03/15/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4540		mg/kg	8.18	2.21	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.09	0.311	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Arsenic, Total	3.00		mg/kg	0.818	0.170	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Barium, Total	14.2		mg/kg	0.818	0.142	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Beryllium, Total	0.246	J	mg/kg	0.409	0.027	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.818	0.080	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Calcium, Total	870		mg/kg	8.18	2.86	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Chromium, Total	5.37		mg/kg	0.818	0.079	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Cobalt, Total	3.71		mg/kg	1.64	0.136	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Copper, Total	9.42		mg/kg	0.818	0.211	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Iron, Total	10400		mg/kg	4.09	0.739	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Lead, Total	5.79		mg/kg	4.09	0.219	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Magnesium, Total	1480		mg/kg	8.18	1.26	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Manganese, Total	244		mg/kg	0.818	0.130	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	03/28/19 04:30	03/28/19 10:37	EPA 7471B	1,7471B	GD
Nickel, Total	6.64		mg/kg	2.05	0.198	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Potassium, Total	506		mg/kg	205	11.8	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.64	0.211	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.818	0.232	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Sodium, Total	88.1	J	mg/kg	164	2.58	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.64	0.258	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Vanadium, Total	10.8		mg/kg	0.818	0.166	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB
Zinc, Total	22.6		mg/kg	4.09	0.240	2	03/27/19 19:13	03/27/19 22:38	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911778

Project Number: 16.6334

Report Date: 03/29/19

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 Batch: WG1220301-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Iron, Total	0.568	J	mg/kg	2.00	0.361	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Manganese, Total	0.076	J	mg/kg	0.400	0.064	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Sodium, Total	7.14	J	mg/kg	80.0	1.26	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/27/19 19:13	03/27/19 22:51	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/27/19 19:13	03/27/19 22:51	1,6010D	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 Batch: WG1220400-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/28/19 04:30	03/28/19 09:42	1,7471B	GD



Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911778

Project Number: 16.6334

Report Date: 03/29/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911778

Report Date: 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1220301-2 SRM Lot Number: D101-540								
Aluminum, Total	63		-		50-151	-		
Antimony, Total	156		-		3-196	-		
Arsenic, Total	95		-		83-117	-		
Barium, Total	88		-		83-118	-		
Beryllium, Total	92		-		83-117	-		
Cadmium, Total	94		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	89		-		81-118	-		
Cobalt, Total	93		-		84-116	-		
Copper, Total	90		-		83-116	-		
Iron, Total	82		-		62-138	-		
Lead, Total	91		-		83-117	-		
Magnesium, Total	83		-		76-124	-		
Manganese, Total	91		-		82-118	-		
Nickel, Total	93		-		82-117	-		
Potassium, Total	78		-		71-130	-		
Selenium, Total	98		-		79-121	-		
Silver, Total	89		-		80-120	-		
Sodium, Total	97		-		72-127	-		
Thallium, Total	98		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911778**Report Date:** 03/29/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1220301-2 SRM Lot Number: D101-540					
Zinc, Total	93	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1220400-2 SRM Lot Number: D101-540					
Mercury, Total	90	-	65-135	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

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 QC Batch ID: WG1220301-3 QC Sample: L1911984-01 Client ID: MS Sample												
Aluminum, Total	8090	206	9370	621	Q	-	-		75-125	-		20
Antimony, Total	1.34J	51.5	39.0	76		-	-		75-125	-		20
Arsenic, Total	5.38	12.4	15.8	84		-	-		75-125	-		20
Barium, Total	90.2	206	256	80		-	-		75-125	-		20
Beryllium, Total	0.384	5.15	4.33	76		-	-		75-125	-		20
Cadmium, Total	ND	5.26	3.93	75		-	-		75-125	-		20
Calcium, Total	1090	1030	1900	79		-	-		75-125	-		20
Chromium, Total	14.6	20.6	30.0	75		-	-		75-125	-		20
Cobalt, Total	3.94	51.5	42.7	75		-	-		75-125	-		20
Copper, Total	23.5	25.8	45.2	84		-	-		75-125	-		20
Iron, Total	11700	103	11800	97		-	-		75-125	-		20
Lead, Total	371	52.6	424	101		-	-		75-125	-		20
Magnesium, Total	1260	1030	2030	75		-	-		75-125	-		20
Manganese, Total	314	51.5	399	165	Q	-	-		75-125	-		20
Nickel, Total	9.69	51.5	63.1	104		-	-		75-125	-		20
Potassium, Total	214	1030	1040	80		-	-		75-125	-		20
Selenium, Total	0.746J	12.4	10.4	84		-	-		75-125	-		20
Silver, Total	ND	30.9	24.3	79		-	-		75-125	-		20
Sodium, Total	73.0J	1030	907	88		-	-		75-125	-		20
Thallium, Total	ND	12.4	8.92	72	Q	-	-		75-125	-		20
Vanadium, Total	28.7	51.5	70.5	81		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

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 QC Batch ID: WG1220301-3 QC Sample: L1911984-01 Client ID: MS Sample									
Zinc, Total	112	51.5	164	101	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1220400-3 QC Sample: L1911708-01 Client ID: MS Sample									
Mercury, Total	0.602	0.194	0.765	84	-	-	80-120	-	20

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1911778
Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1220301-4 QC Sample: L1911984-01 Client ID: DUP Sample						
Lead, Total	371	383	mg/kg	3		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1220400-4 QC Sample: L1911708-01 Client ID: DUP Sample						
Mercury, Total	0.602	0.613	mg/kg	2		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

SAMPLE RESULTS

Lab ID: L1911778-01
Client ID: RISB8_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/15/19 10:30
Date Received: 03/15/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	03/26/19 04:48	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.871	0.174	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH



Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911778**Project Number:** 16.6334**Report Date:** 03/29/19**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1220210-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II-TA1 SITE**Project Number:** 16.6334**Lab Number:** L1911778**Report Date:** 03/29/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1220210-2								
Chromium, Hexavalent	92		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Lab Number: L1911778

Project Number: 16.6334

Report Date: 03/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1220210-4 WG1220210-5 QC Sample: L1911987-04 Client ID: MS Sample												
Chromium, Hexavalent	ND	944	1100	116		1610	119		75-125	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II-TA1 SITE

Project Number: 16.6334

Lab Number: L1911778

Report Date: 03/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1219455-1 QC Sample: L1911612-01 Client ID: DUP Sample						
Solids, Total	72.4	70.2	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1220210-7 QC Sample: L1911987-04 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II-TA1 SITE**Lab Number:** L1911778**Project Number:** 16.6334**Report Date:** 03/29/19**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(*)
L1911778-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1911778-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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)
L1911778-01F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		HEXCR-7196(30)

Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II-TA1 SITE
Project Number: 16.6334

Lab Number: L1911778
Report Date: 03/29/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.** **EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

Page 25 of 25



ANALYTICAL REPORT

Lab Number:	L1911820
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II TA1 SITE
Project Number:	16.6334
Report Date:	04/02/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1911820-01	RIMW4D-8-10	SOIL	SCHENECTADY, NY	03/25/19 10:15	03/25/19
L1911820-02	RIMW4D-50-52	SOIL	SCHENECTADY, NY	03/25/19 13:30	03/25/19

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

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.

Total Metals

L1911820-01 and -02: 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.

Cyanide, Total

The WG1219675-2/-3 LCS/LCSD recoveries (72%/73%), associated with L1911820-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/02/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-01
 Client ID: RIMW4D-8-10
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/30/19 18:02
 Analyst: JC
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	0.19	J	ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	1.3		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS****Lab ID:** L1911820-01**Date Collected:** 03/25/19 10:15**Client ID:** RIMW4D-8-10**Date Received:** 03/25/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.62	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-02
 Client ID: RIMW4D-50-52
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 03/30/19 18:28
 Analyst: JC
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.6	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.93	0.13	1
Chloroform	0.28	J	ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.93	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.93	0.12	1
Dibromochloromethane	ND		ug/kg	0.93	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.93	0.25	1
Tetrachloroethene	ND		ug/kg	0.46	0.18	1
Chlorobenzene	ND		ug/kg	0.46	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.7	0.64	1
1,2-Dichloroethane	ND		ug/kg	0.93	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.46	0.16	1
Bromodichloromethane	ND		ug/kg	0.46	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.93	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.46	0.15	1
Bromoform	ND		ug/kg	3.7	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.46	0.15	1
Benzene	ND		ug/kg	0.46	0.15	1
Toluene	ND		ug/kg	0.93	0.50	1
Ethylbenzene	ND		ug/kg	0.93	0.13	1
Chloromethane	ND		ug/kg	3.7	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.93	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.93	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-02
 Client ID: RIMW4D-50-52
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.19	1
p/m-Xylene	ND		ug/kg	1.8	0.52	1
o-Xylene	ND		ug/kg	0.93	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.93	0.16	1
Styrene	ND		ug/kg	0.93	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.3	0.85	1
Acetone	ND		ug/kg	9.3	4.5	1
Carbon disulfide	ND		ug/kg	9.3	4.2	1
2-Butanone	ND		ug/kg	9.3	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.3	1.2	1
2-Hexanone	ND		ug/kg	9.3	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.19	1
1,2-Dibromoethane	ND		ug/kg	0.93	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.93	1
Isopropylbenzene	ND		ug/kg	0.93	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.3	0.50	1
1,4-Dioxane	ND		ug/kg	74	33.	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Tentatively Identified Compounds

Total TIC Compounds	2.03	J	ug/kg	1
Cyclotrisiloxane, Hexamethyl-	2.03	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	94		70-130

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/30/19 12:48
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1221561-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/30/19 12:48
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1221561-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 03/30/19 12:48
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1221561-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1221561-3 WG1221561-4								
Methylene chloride	98		92		70-130	6		30
1,1-Dichloroethane	108		99		70-130	9		30
Chloroform	100		94		70-130	6		30
Carbon tetrachloride	99		90		70-130	10		30
1,2-Dichloropropane	108		101		70-130	7		30
Dibromochloromethane	96		93		70-130	3		30
1,1,2-Trichloroethane	100		98		70-130	2		30
Tetrachloroethene	96		89		70-130	8		30
Chlorobenzene	96		90		70-130	6		30
Trichlorofluoromethane	99		90		70-139	10		30
1,2-Dichloroethane	108		104		70-130	4		30
1,1,1-Trichloroethane	102		93		70-130	9		30
Bromodichloromethane	104		96		70-130	8		30
trans-1,3-Dichloropropene	106		102		70-130	4		30
cis-1,3-Dichloropropene	103		98		70-130	5		30
Bromoform	91		86		70-130	6		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	101		94		70-130	7		30
Toluene	100		92		70-130	8		30
Ethylbenzene	101		94		70-130	7		30
Chloromethane	123		110		52-130	11		30
Bromomethane	104		89		57-147	16		30
Vinyl chloride	112		100		67-130	11		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1221561-3 WG1221561-4								
Chloroethane	107		96		50-151	11		30
1,1-Dichloroethene	104		92		65-135	12		30
trans-1,2-Dichloroethene	99		91		70-130	8		30
Trichloroethene	99		93		70-130	6		30
1,2-Dichlorobenzene	94		90		70-130	4		30
1,3-Dichlorobenzene	95		91		70-130	4		30
1,4-Dichlorobenzene	95		90		70-130	5		30
Methyl tert butyl ether	102		96		66-130	6		30
p/m-Xylene	100		93		70-130	7		30
o-Xylene	97		92		70-130	5		30
cis-1,2-Dichloroethene	98		90		70-130	9		30
Styrene	99		93		70-130	6		30
Dichlorodifluoromethane	105		95		30-146	10		30
Acetone	111		107		54-140	4		30
Carbon disulfide	99		88		59-130	12		30
2-Butanone	101		96		70-130	5		30
4-Methyl-2-pentanone	104		103		70-130	1		30
2-Hexanone	102		104		70-130	2		30
Bromochloromethane	96		89		70-130	8		30
1,2-Dibromoethane	98		94		70-130	4		30
1,2-Dibromo-3-chloropropane	88		83		68-130	6		30
Isopropylbenzene	99		93		70-130	6		30
1,2,3-Trichlorobenzene	92		90		70-130	2		30

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1221561-3 WG1221561-4								
1,2,4-Trichlorobenzene	95		92		70-130	3		30
Methyl Acetate	114		109		51-146	4		30
Cyclohexane	117		107		59-142	9		30
1,4-Dioxane	96		97		65-136	1		30
Freon-113	106		94		50-139	12		30
Methyl cyclohexane	103		94		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		109		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	104		105		70-130
Dibromofluoromethane	96		96		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
Client ID: RIMW4D-8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 03/30/19 23:51
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/28/19 20:35

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	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	32.	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	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	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

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911820

Project Number: 16.6334

Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
 Client ID: RIMW4D-8-10
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
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	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	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	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	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	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	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Carbazole	ND		ug/kg	180	18.	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	240	50.	1

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
Client ID: RIMW4D-8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	56.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1

Tentatively Identified Compounds

Total TIC Compounds	168	J	ug/kg			1
Unknown	168	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	112		10-136
4-Terphenyl-d14	95		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-02
Client ID: RIMW4D-50-52
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/02/19 02:18
Analyst: SZ
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 04/01/19 08:10

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	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-02
 Client ID: RIMW4D-50-52
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	25.	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	39.	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	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	67.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	280	83.	1
2,4-Dinitrophenol	ND		ug/kg	980	95.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Carbazole	ND		ug/kg	200	20.	1
Atrazine	ND		ug/kg	160	71.	1
Benzaldehyde	ND		ug/kg	270	55.	1

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS****Lab ID:** L1911820-02**Date Collected:** 03/25/19 13:30**Client ID:** RIMW4D-50-52**Date Received:** 03/25/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	200	62.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	41.	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	63		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/30/19 01:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/28/19 20:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220813-1					
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	44.
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	18.
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	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
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	28.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/30/19 01:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/28/19 20:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220813-1					
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	32.
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	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 03/30/19 01:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 03/28/19 20:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1220813-1					
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	89		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	92		18-120

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/01/19 22:27
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/01/19 03:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1221598-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/01/19 22:27
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/01/19 03:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1221598-1					
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
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	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/01/19 22:27
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/01/19 03:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1221598-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
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	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	89		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1220813-2 WG1220813-3								
Acenaphthene	96		97		31-137	1		50
Hexachlorobenzene	100		104		40-140	4		50
Bis(2-chloroethyl)ether	90		84		40-140	7		50
2-Chloronaphthalene	92		93		40-140	1		50
3,3'-Dichlorobenzidine	75		85		40-140	13		50
2,4-Dinitrotoluene	106		109		40-132	3		50
2,6-Dinitrotoluene	100		101		40-140	1		50
Fluoranthene	89		93		40-140	4		50
4-Chlorophenyl phenyl ether	96		98		40-140	2		50
4-Bromophenyl phenyl ether	100		105		40-140	5		50
Bis(2-chloroisopropyl)ether	82		78		40-140	5		50
Bis(2-chloroethoxy)methane	91		88		40-117	3		50
Hexachlorobutadiene	90		88		40-140	2		50
Hexachlorocyclopentadiene	86		82		40-140	5		50
Hexachloroethane	88		85		40-140	3		50
Isophorone	96		91		40-140	5		50
Naphthalene	88		86		40-140	2		50
Nitrobenzene	95		88		40-140	8		50
NDPA/DPA	98		103		36-157	5		50
n-Nitrosodi-n-propylamine	94		89		32-121	5		50
Bis(2-ethylhexyl)phthalate	102		108		40-140	6		50
Butyl benzyl phthalate	93		99		40-140	6		50
Di-n-butylphthalate	89		94		40-140	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1220813-2 WG1220813-3								
Di-n-octylphthalate	105		112		40-140	6		50
Diethyl phthalate	101		104		40-140	3		50
Dimethyl phthalate	96		99		40-140	3		50
Benzo(a)anthracene	96		99		40-140	3		50
Benzo(a)pyrene	108		113		40-140	5		50
Benzo(b)fluoranthene	103		107		40-140	4		50
Benzo(k)fluoranthene	102		107		40-140	5		50
Chrysene	94		98		40-140	4		50
Acenaphthylene	96		96		40-140	0		50
Anthracene	87		90		40-140	3		50
Benzo(ghi)perylene	90		94		40-140	4		50
Fluorene	100		101		40-140	1		50
Phenanthrene	86		89		40-140	3		50
Dibenzo(a,h)anthracene	90		94		40-140	4		50
Indeno(1,2,3-cd)pyrene	92		99		40-140	7		50
Pyrene	88		91		35-142	3		50
Biphenyl	99		98		54-104	1		50
4-Chloroaniline	85		81		40-140	5		50
2-Nitroaniline	102		103		47-134	1		50
3-Nitroaniline	84		89		26-129	6		50
4-Nitroaniline	101		105		41-125	4		50
Dibenzofuran	96		98		40-140	2		50
2-Methylnaphthalene	92		90		40-140	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1220813-2 WG1220813-3								
1,2,4,5-Tetrachlorobenzene	97		95		40-117	2		50
Acetophenone	101		98		14-144	3		50
2,4,6-Trichlorophenol	98		100		30-130	2		50
p-Chloro-m-cresol	100		103		26-103	3		50
2-Chlorophenol	95		90		25-102	5		50
2,4-Dichlorophenol	99		97		30-130	2		50
2,4-Dimethylphenol	99		97		30-130	2		50
2-Nitrophenol	99		93		30-130	6		50
4-Nitrophenol	120	Q	122	Q	11-114	2		50
2,4-Dinitrophenol	86		91		4-130	6		50
4,6-Dinitro-o-cresol	104		111		10-130	7		50
Pentachlorophenol	110	Q	114	Q	17-109	4		50
Phenol	94	Q	89		26-90	5		50
2-Methylphenol	96		92		30-130	4		50
3-Methylphenol/4-Methylphenol	103		99		30-130	4		50
2,4,5-Trichlorophenol	99		101		30-130	2		50
Carbazole	87		92		54-128	6		50
Atrazine	118		126		40-140	7		50
Benzaldehyde	94		86		40-140	9		50
Caprolactam	86		90		15-130	5		50
2,3,4,6-Tetrachlorophenol	107		110		40-140	3		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1220813-2 WG1220813-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	93		88		25-120
Phenol-d6	90		85		10-120
Nitrobenzene-d5	93		88		23-120
2-Fluorobiphenyl	90		90		30-120
2,4,6-Tribromophenol	107		111		10-136
4-Terphenyl-d14	83		89		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1221598-2 WG1221598-3								
Acenaphthene	100		109		31-137	9		50
Hexachlorobenzene	105		114		40-140	8		50
Bis(2-chloroethyl)ether	83		91		40-140	9		50
2-Chloronaphthalene	93		101		40-140	8		50
3,3'-Dichlorobenzidine	75		80		40-140	6		50
2,4-Dinitrotoluene	109		120		40-132	10		50
2,6-Dinitrotoluene	99		111		40-140	11		50
Fluoranthene	95		104		40-140	9		50
4-Chlorophenyl phenyl ether	100		109		40-140	9		50
4-Bromophenyl phenyl ether	107		117		40-140	9		50
Bis(2-chloroisopropyl)ether	76		84		40-140	10		50
Bis(2-chloroethoxy)methane	85		95		40-117	11		50
Hexachlorobutadiene	91		99		40-140	8		50
Hexachlorocyclopentadiene	84		90		40-140	7		50
Hexachloroethane	82		90		40-140	9		50
Isophorone	90		98		40-140	9		50
Naphthalene	88		94		40-140	7		50
Nitrobenzene	87		95		40-140	9		50
NDPA/DPA	104		114		36-157	9		50
n-Nitrosodi-n-propylamine	89		98		32-121	10		50
Bis(2-ethylhexyl)phthalate	106		113		40-140	6		50
Butyl benzyl phthalate	95		106		40-140	11		50
Di-n-butylphthalate	94		101		40-140	7		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1221598-2 WG1221598-3								
Di-n-octylphthalate	108		116		40-140	7		50
Diethyl phthalate	105		114		40-140	8		50
Dimethyl phthalate	96		105		40-140	9		50
Benzo(a)anthracene	104		112		40-140	7		50
Benzo(a)pyrene	112		125		40-140	11		50
Benzo(b)fluoranthene	110		119		40-140	8		50
Benzo(k)fluoranthene	107		118		40-140	10		50
Chrysene	101		107		40-140	6		50
Acenaphthylene	96		106		40-140	10		50
Anthracene	94		100		40-140	6		50
Benzo(ghi)perylene	96		105		40-140	9		50
Fluorene	104		113		40-140	8		50
Phenanthrene	92		98		40-140	6		50
Dibenzo(a,h)anthracene	96		103		40-140	7		50
Indeno(1,2,3-cd)pyrene	100		110		40-140	10		50
Pyrene	93		102		35-142	9		50
Biphenyl	99		107	Q	54-104	8		50
4-Chloroaniline	78		88		40-140	12		50
2-Nitroaniline	99		113		47-134	13		50
3-Nitroaniline	74		78		26-129	5		50
4-Nitroaniline	98		110		41-125	12		50
Dibenzofuran	101		110		40-140	9		50
2-Methylnaphthalene	94		99		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1221598-2 WG1221598-3								
1,2,4,5-Tetrachlorobenzene	96		106		40-117	10		50
Acetophenone	97		105		14-144	8		50
2,4,6-Trichlorophenol	97		110		30-130	13		50
p-Chloro-m-cresol	102		111	Q	26-103	8		50
2-Chlorophenol	90		99		25-102	10		50
2,4-Dichlorophenol	95		106		30-130	11		50
2,4-Dimethylphenol	94		105		30-130	11		50
2-Nitrophenol	92		101		30-130	9		50
4-Nitrophenol	127	Q	132	Q	11-114	4		50
2,4-Dinitrophenol	97		105		4-130	8		50
4,6-Dinitro-o-cresol	108		121		10-130	11		50
Pentachlorophenol	113	Q	130	Q	17-109	14		50
Phenol	89		97	Q	26-90	9		50
2-Methylphenol	90		101		30-130	12		50
3-Methylphenol/4-Methylphenol	97		107		30-130	10		50
2,4,5-Trichlorophenol	101		111		30-130	9		50
Carbazole	95		102		54-128	7		50
Atrazine	132		148	Q	40-140	11		50
Benzaldehyde	87		92		40-140	6		50
Caprolactam	99		112		15-130	12		50
2,3,4,6-Tetrachlorophenol	110		125		40-140	13		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1221598-2 WG1221598-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		97		25-120
Phenol-d6	87		96		10-120
Nitrobenzene-d5	92		99		23-120
2-Fluorobiphenyl	94		102		30-120
2,4,6-Tribromophenol	116		128		10-136
4-Terphenyl-d14	90		100		18-120

PCBS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
Client ID: RIMW4D-8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/30/19 14:03
Analyst: KB
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/28/19 19:45
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	3.21	1	A
Aroclor 1221	ND		ug/kg	36.1	3.62	1	A
Aroclor 1232	ND		ug/kg	36.1	7.66	1	A
Aroclor 1242	ND		ug/kg	36.1	4.87	1	A
Aroclor 1248	ND		ug/kg	36.1	5.42	1	A
Aroclor 1254	ND		ug/kg	36.1	3.95	1	A
Aroclor 1260	ND		ug/kg	36.1	6.67	1	A
Aroclor 1262	ND		ug/kg	36.1	4.59	1	A
Aroclor 1268	ND		ug/kg	36.1	3.74	1	A
PCBs, Total	ND		ug/kg	36.1	3.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	117		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-02
Client ID: RIMW4D-50-52
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 03/30/19 14:16
Analyst: KB
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 03/28/19 19:45
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	3.44	1	A
Aroclor 1221	ND		ug/kg	38.8	3.89	1	A
Aroclor 1232	ND		ug/kg	38.8	8.22	1	A
Aroclor 1242	ND		ug/kg	38.8	5.23	1	A
Aroclor 1248	ND		ug/kg	38.8	5.82	1	A
Aroclor 1254	ND		ug/kg	38.8	4.24	1	A
Aroclor 1260	ND		ug/kg	38.8	7.17	1	A
Aroclor 1262	ND		ug/kg	38.8	4.93	1	A
Aroclor 1268	ND		ug/kg	38.8	4.02	1	A
PCBs, Total	ND		ug/kg	38.8	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	108		30-150	B
Decachlorobiphenyl	113		30-150	B

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 03/30/19 16:12
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 03/28/19 19:45
Cleanup Method: EPA 3665A
Cleanup Date: 03/29/19
Cleanup Method: EPA 3660B
Cleanup Date: 03/29/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1220802-1						
Aroclor 1016	ND		ug/kg	32.1	2.85	A
Aroclor 1221	ND		ug/kg	32.1	3.22	A
Aroclor 1232	ND		ug/kg	32.1	6.80	A
Aroclor 1242	ND		ug/kg	32.1	4.33	A
Aroclor 1248	ND		ug/kg	32.1	4.81	A
Aroclor 1254	ND		ug/kg	32.1	3.51	A
Aroclor 1260	ND		ug/kg	32.1	5.93	A
Aroclor 1262	ND		ug/kg	32.1	4.08	A
Aroclor 1268	ND		ug/kg	32.1	3.32	A
PCBs, Total	ND		ug/kg	32.1	2.85	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1220802-2 WG1220802-3									
Aroclor 1016	76		83		40-140	9		50	A
Aroclor 1260	64		73		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		96		30-150	A
Decachlorobiphenyl	86		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		97		30-150	B
Decachlorobiphenyl	89		99		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
Client ID: RIMW4D-8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/30/19 15:46
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 03/29/19 04:05
Cleanup Method: EPA 3620B
Cleanup Date: 03/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.718	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	ND		ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.615	1	A
4,4'-DDT	ND		ug/kg	3.23	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND	IP	ug/kg	2.15	0.600	1	B
trans-Chlordane	ND		ug/kg	2.15	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS****Lab ID:** L1911820-01**Date Collected:** 03/25/19 10:15**Client ID:** RIMW4D-8-10**Date Received:** 03/25/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-02
 Client ID: RIMW4D-50-52
 Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
 Date Received: 03/25/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/30/19 15:59
 Analyst: KEG
 Percent Solids: 81%

Extraction Method: EPA 3546
 Extraction Date: 03/29/19 04:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.364	1	A
Lindane	ND		ug/kg	0.774	0.346	1	A
Alpha-BHC	ND		ug/kg	0.774	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.704	1	A
Heptachlor	ND		ug/kg	0.928	0.416	1	A
Aldrin	ND		ug/kg	1.86	0.654	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.774	0.317	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.812	1	A
Endrin ketone	ND		ug/kg	1.86	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.86	0.429	1	A
4,4'-DDD	ND		ug/kg	1.86	0.662	1	A
4,4'-DDT	ND		ug/kg	3.48	1.49	1	A
Endosulfan I	ND		ug/kg	1.86	0.439	1	A
Endosulfan II	ND		ug/kg	1.86	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.774	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.75	1	A
cis-Chlordane	ND		ug/kg	2.32	0.647	1	A
trans-Chlordane	ND		ug/kg	2.32	0.613	1	A
Chlordane	ND		ug/kg	15.1	6.15	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS****Lab ID:** L1911820-02**Date Collected:** 03/25/19 13:30**Client ID:** RIMW4D-50-52**Date Received:** 03/25/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	78		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 03/30/19 14:18
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 03/29/19 04:05
Cleanup Method: EPA 3620B
Cleanup Date: 03/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1220890-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.659	0.295	A
Alpha-BHC	ND		ug/kg	0.659	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.791	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.659	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.692	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.989	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.659	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.30	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	12.8	5.24	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/30/19 14:18
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/29/19 04:05
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1220890-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	104		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1220890-2 WG1220890-3									
Delta-BHC	113		114		30-150	1		30	A
Lindane	106		107		30-150	1		30	A
Alpha-BHC	105		107		30-150	2		30	A
Beta-BHC	114		114		30-150	0		30	A
Heptachlor	115		117		30-150	2		30	A
Aldrin	112		111		30-150	1		30	A
Heptachlor epoxide	127		128		30-150	1		30	A
Endrin	124		131		30-150	5		30	A
Endrin aldehyde	101		86		30-150	16		30	A
Endrin ketone	114		116		30-150	2		30	A
Dieldrin	122		121		30-150	1		30	A
4,4'-DDE	117		113		30-150	3		30	A
4,4'-DDD	117		117		30-150	0		30	A
4,4'-DDT	118		120		30-150	2		30	A
Endosulfan I	113		110		30-150	3		30	A
Endosulfan II	118		119		30-150	1		30	A
Endosulfan sulfate	111		108		30-150	3		30	A
Methoxychlor	109		114		30-150	4		30	A
cis-Chlordane	110		97		30-150	13		30	A
trans-Chlordane	108		110		30-150	2		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1220890-2 WG1220890-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		96		30-150	B
Decachlorobiphenyl	95		94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		94		30-150	A
Decachlorobiphenyl	108		114		30-150	A

METALS

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-01

Date Collected: 03/25/19 10:15

Client ID: RIMW4D-8-10

Date Received: 03/25/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	4450		mg/kg	8.69	2.35	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.35	0.330	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Arsenic, Total	3.15		mg/kg	0.869	0.181	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Barium, Total	23.1		mg/kg	0.869	0.151	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Beryllium, Total	0.252	J	mg/kg	0.435	0.029	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.869	0.085	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Calcium, Total	1610		mg/kg	8.69	3.04	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Chromium, Total	5.25		mg/kg	0.869	0.083	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Cobalt, Total	4.86		mg/kg	1.74	0.144	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Copper, Total	12.1		mg/kg	0.869	0.224	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Iron, Total	10500		mg/kg	4.35	0.785	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Lead, Total	4.17	J	mg/kg	4.35	0.233	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Magnesium, Total	1750		mg/kg	8.69	1.34	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Manganese, Total	183		mg/kg	0.869	0.138	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.070	0.015	1	03/28/19 04:00	03/28/19 11:30	EPA 7471B	1,7471B	GD
Nickel, Total	11.0		mg/kg	2.17	0.210	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Potassium, Total	496		mg/kg	217	12.5	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Selenium, Total	0.322	J	mg/kg	1.74	0.224	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.869	0.246	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Sodium, Total	58.8	J	mg/kg	174	2.74	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.74	0.274	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Vanadium, Total	8.70		mg/kg	0.869	0.176	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC
Zinc, Total	30.8		mg/kg	4.35	0.255	2	03/27/19 07:25	03/27/19 11:29	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1911820-02

Date Collected: 03/25/19 13:30

Client ID: RIMW4D-50-52

Date Received: 03/25/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3330		mg/kg	9.23	2.49	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.62	0.351	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Arsenic, Total	2.82		mg/kg	0.923	0.192	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Barium, Total	24.6		mg/kg	0.923	0.161	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Beryllium, Total	0.138	J	mg/kg	0.462	0.031	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.923	0.091	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Calcium, Total	25700		mg/kg	9.23	3.23	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Chromium, Total	5.51		mg/kg	0.923	0.089	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Cobalt, Total	4.21		mg/kg	1.85	0.153	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Copper, Total	9.00		mg/kg	0.923	0.238	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Iron, Total	9990		mg/kg	4.62	0.834	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Lead, Total	3.77	J	mg/kg	4.62	0.247	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Magnesium, Total	5880		mg/kg	9.23	1.42	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Manganese, Total	237		mg/kg	0.923	0.147	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.077	0.016	1	03/28/19 04:00	03/28/19 11:32	EPA 7471B	1,7471B	GD
Nickel, Total	7.19		mg/kg	2.31	0.223	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Potassium, Total	446		mg/kg	231	13.3	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.85	0.238	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.923	0.261	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Sodium, Total	127	J	mg/kg	185	2.91	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.85	0.291	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Vanadium, Total	11.1		mg/kg	0.923	0.187	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC
Zinc, Total	23.0		mg/kg	4.62	0.270	2	03/27/19 07:25	03/27/19 11:33	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911820

Project Number: 16.6334

Report Date: 04/02/19

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): 01-02 Batch: WG1219995-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Arsenic, Total	0.180	J	mg/kg	0.400	0.083	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Iron, Total	1.02	J	mg/kg	2.00	0.361	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Potassium, Total	26.2	J	mg/kg	100	5.76	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Sodium, Total	57.5	J	mg/kg	80.0	1.26	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	03/27/19 07:25	03/27/19 10:28	1,6010D	LC

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): 01-02 Batch: WG1220018-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/28/19 04:00	03/28/19 11:10	1,7471B	GD



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911820

Project Number: 16.6334

Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1219995-2 SRM Lot Number: D101-540								
Aluminum, Total	72		-		50-151	-		
Antimony, Total	167		-		3-196	-		
Arsenic, Total	103		-		83-117	-		
Barium, Total	90		-		83-118	-		
Beryllium, Total	96		-		83-117	-		
Cadmium, Total	96		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	91		-		81-118	-		
Cobalt, Total	100		-		84-116	-		
Copper, Total	92		-		83-116	-		
Iron, Total	79		-		62-138	-		
Lead, Total	99		-		83-117	-		
Magnesium, Total	90		-		76-124	-		
Manganese, Total	90		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Potassium, Total	86		-		71-130	-		
Selenium, Total	103		-		79-121	-		
Silver, Total	93		-		80-120	-		
Sodium, Total	92		-		72-127	-		
Thallium, Total	102		-		81-119	-		
Vanadium, Total	87		-		79-121	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1219995-2 SRM Lot Number: D101-540					
Zinc, Total	98	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1220018-2 SRM Lot Number: D101-540					
Mercury, Total	86	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

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): 01-02			QC Batch ID: WG1219995-3			QC Sample: L1911945-01			Client ID: MS Sample			
Aluminum, Total	3600	200	6360	1380	Q	-	-		75-125	-		20
Antimony, Total	0.433J	50	42.7	85		-	-		75-125	-		20
Arsenic, Total	8.10	12	16.5	70	Q	-	-		75-125	-		20
Barium, Total	7.01	200	199	96		-	-		75-125	-		20
Beryllium, Total	0.069J	5	4.44	89		-	-		75-125	-		20
Cadmium, Total	ND	5.1	4.22	83		-	-		75-125	-		20
Calcium, Total	684	1000	1960	128	Q	-	-		75-125	-		20
Chromium, Total	15.7	20	35.2	97		-	-		75-125	-		20
Cobalt, Total	0.699J	50	45.3	90		-	-		75-125	-		20
Copper, Total	5.22	25	28.2	92		-	-		75-125	-		20
Iron, Total	11800	100	10700	0	Q	-	-		75-125	-		20
Lead, Total	7.31	51	51.9	87		-	-		75-125	-		20
Magnesium, Total	200	1000	1120	92		-	-		75-125	-		20
Manganese, Total	18.0	50	72.3	108		-	-		75-125	-		20
Nickel, Total	0.660J	50	45.5	91		-	-		75-125	-		20
Potassium, Total	268	1000	1280	101		-	-		75-125	-		20
Selenium, Total	ND	12	10.6	88		-	-		75-125	-		20
Silver, Total	ND	30	27.8	93		-	-		75-125	-		20
Sodium, Total	84.7J	1000	1060	106		-	-		75-125	-		20
Thallium, Total	ND	12	10.4	87		-	-		75-125	-		20
Vanadium, Total	33.4	50	70.0	73	Q	-	-		75-125	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

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): 01-02			QC Batch ID: WG1219995-3		QC Sample: L1911945-01		Client ID: MS Sample		
Zinc, Total	7.88	50	54.1	92	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-02			QC Batch ID: WG1220018-3		QC Sample: L1911908-01		Client ID: MS Sample		
Mercury, Total	ND	0.144	0.137	95	-	-	80-120	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1219995-4 QC Sample: L1911945-01 Client ID: DUP Sample						
Aluminum, Total	3600	4240	mg/kg	16		20
Antimony, Total	0.433J	ND	mg/kg	NC		20
Arsenic, Total	8.10	5.18	mg/kg	44	Q	20
Barium, Total	7.01	8.98	mg/kg	25	Q	20
Beryllium, Total	0.069J	0.067J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	684	1120	mg/kg	48	Q	20
Chromium, Total	15.7	14.0	mg/kg	11		20
Cobalt, Total	0.699J	0.943J	mg/kg	NC		20
Copper, Total	5.22	4.95	mg/kg	5		20
Iron, Total	11800	9520	mg/kg	21	Q	20
Lead, Total	7.31	5.46	mg/kg	29	Q	20
Magnesium, Total	200	239	mg/kg	18		20
Manganese, Total	18.0	27.8	mg/kg	43	Q	20
Nickel, Total	0.660J	1.08J	mg/kg	NC		20
Potassium, Total	268	281	mg/kg	5		20
Selenium, Total	ND	0.471J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	84.7J	81.6J	mg/kg	NC		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1219995-4 QC Sample: L1911945-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	33.4	22.1	mg/kg	41 Q	20
Zinc, Total	7.88	9.34	mg/kg	17	20
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1220018-4 QC Sample: L1911908-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-01
Client ID: RIMW4D-8-10
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 10:15
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	03/26/19 13:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	03/26/19 16:00	03/27/19 15:17	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.893	0.178	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1911820-02
Client ID: RIMW4D-50-52
Sample Location: SCHENECTADY, NY

Date Collected: 03/25/19 13:30
Date Received: 03/25/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.3		%	0.100	NA	1	-	03/26/19 13:13	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.26	1	03/26/19 16:00	03/27/19 15:18	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.984	0.197	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1911820

Project Number: 16.6334

Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1219675-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	03/26/19 16:00	03/27/19 14:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1220210-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/27/19 16:30	03/28/19 14:29	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1911820

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1219675-2 WG1219675-3								
Cyanide, Total	72	Q	73	Q	80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1220210-2								
Chromium, Hexavalent	92		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1219675-4 WG1219675-5 QC Sample: L1911748-01 Client ID: MS Sample												
Cyanide, Total	ND	11	10	90		9.8	85		75-125	2		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1220210-4 WG1220210-5 QC Sample: L1911987-04 Client ID: MS Sample												
Chromium, Hexavalent	ND	944	1100	116		1610	119		75-125	3		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1219567-1 QC Sample: L1911839-01 Client ID: DUP Sample						
Solids, Total	84.9	83.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1220210-7 QC Sample: L1911987-04 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Serial_No: 04021920:42
Lab Number: L1911820
Report Date: 04/02/19

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(*)
L1911820-01A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1911820-01B	Vial water preserved	A	NA		3.1	Y	Absent	26-MAR-19 09:57	NYTCL-8260HLW(14)
L1911820-01C	Vial water preserved	A	NA		3.1	Y	Absent	26-MAR-19 09:57	NYTCL-8260HLW(14)
L1911820-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	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)
L1911820-01E	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911820-01F	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911820-02A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1911820-02B	Vial water preserved	A	NA		3.1	Y	Absent	26-MAR-19 09:57	NYTCL-8260HLW(14)
L1911820-02C	Vial water preserved	A	NA		3.1	Y	Absent	26-MAR-19 09:57	NYTCL-8260HLW(14)
L1911820-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	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)
L1911820-02E	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1911820-02F	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1911820**Project Number:** 16.6334**Report Date:** 04/02/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1911820
Report Date: 04/02/19

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 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

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 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

1 of 1

$$3|26|19$$

L1911820

Page 75 of 75



ANALYTICAL REPORT

Lab Number:	L1912498
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II TA1 SITE
Project Number:	16.6334
Report Date:	04/02/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1912498-01	RISB4_6-8	SOIL	SCHENECTADY, NY	03/19/19 13:20	03/19/19
L1912498-02	RISB12_6-8	SOIL	SCHENECTADY, NY	03/19/19 13:50	03/19/19
L1912498-03	RISB7_6-8	SOIL	SCHENECTADY, NY	03/19/19 16:50	03/19/19

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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.

Total Metals

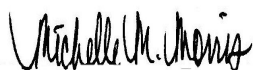
L1912498-02 and -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1221992-1 Method Blank, associated with L1912498-02 and -03, has a concentration above the reporting limit for iron and manganese. Since the associated sample concentrations are greater than 10x the blank concentration for these analytes, no corrective action is required.

The WG1221992-3 MS recoveries for aluminum (200%), iron (0%) and manganese (153%), performed on L1912498-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 04/02/19

ORGANICS

PESTICIDES

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1912498-01
 Client ID: RISB4_6-8
 Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:20
 Date Received: 03/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 03/31/19 17:55
 Analyst: KEG
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 03/30/19 12:09
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/31/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.767	0.343	1	A
Alpha-BHC	ND		ug/kg	0.767	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.920	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.04	1	A
Endrin	ND		ug/kg	0.767	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.805	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	ND		ug/kg	1.84	0.426	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	1.74	JP	ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND		ug/kg	1.84	0.615	1	A
Endosulfan sulfate	ND		ug/kg	0.767	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.66	1	A
cis-Chlordane	ND		ug/kg	2.30	0.641	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	15.0	6.10	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1912498-01

Date Collected: 03/19/19 13:20

Client ID: RISB4_6-8

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1912498-02
Client ID: RISB12_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 03/31/19 18:07
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 03/30/19 12:09
Cleanup Method: EPA 3620B
Cleanup Date: 03/31/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.335	1	A
Lindane	ND		ug/kg	0.713	0.319	1	A
Alpha-BHC	ND		ug/kg	0.713	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.649	1	A
Heptachlor	ND		ug/kg	0.855	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.602	1	A
Heptachlor epoxide	ND		ug/kg	3.21	0.962	1	A
Endrin	ND		ug/kg	0.713	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.748	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND	IP	ug/kg	1.07	0.534	1	A
4,4'-DDE	ND		ug/kg	1.71	0.396	1	B
4,4'-DDD	ND		ug/kg	1.71	0.610	1	A
4,4'-DDT	ND		ug/kg	3.21	1.38	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.572	1	A
Endosulfan sulfate	ND		ug/kg	0.713	0.339	1	A
Methoxychlor	ND		ug/kg	3.21	0.998	1	A
Toxaphene	ND		ug/kg	32.1	8.98	1	A
cis-Chlordane	ND	IP	ug/kg	2.14	0.596	1	B
trans-Chlordane	ND		ug/kg	2.14	0.564	1	A
Chlordane	ND		ug/kg	13.9	5.67	1	A

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS****Lab ID:** L1912498-02**Date Collected:** 03/19/19 13:50**Client ID:** RISB12_6-8**Date Received:** 03/19/19**Sample Location:** SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 03/31/19 17:18
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 03/30/19 02:25
Cleanup Method: EPA 3620B
Cleanup Date: 03/31/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1221296-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Heptachlor epoxide	ND		ug/kg	2.88	0.864	A
Endrin	ND		ug/kg	0.640	0.262	A
Endrin aldehyde	ND		ug/kg	1.92	0.672	A
Endrin ketone	ND		ug/kg	1.54	0.395	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	2.88	1.23	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.304	A
Methoxychlor	ND		ug/kg	2.88	0.896	A
Toxaphene	ND		ug/kg	28.8	8.06	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A
trans-Chlordane	ND		ug/kg	1.92	0.507	A
Chlordane	ND		ug/kg	12.5	5.09	A

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 03/31/19 17:18
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 03/30/19 02:25
 Cleanup Method: EPA 3620B
 Cleanup Date: 03/31/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1221296-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	106		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	97		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1912498

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1221296-2 WG1221296-3									
Delta-BHC	80		77		30-150	4		30	A
Lindane	82		80		30-150	2		30	A
Alpha-BHC	82		75		30-150	9		30	A
Beta-BHC	75		79		30-150	5		30	A
Heptachlor	56		55		30-150	2		30	A
Aldrin	78		69		30-150	12		30	A
Heptachlor epoxide	82		81		30-150	1		30	A
Endrin	84		84		30-150	0		30	A
Endrin aldehyde	62		59		30-150	5		30	A
Endrin ketone	75		72		30-150	4		30	A
Dieldrin	83		77		30-150	8		30	A
4,4'-DDE	76		73		30-150	4		30	A
4,4'-DDD	80		76		30-150	5		30	A
4,4'-DDT	85		78		30-150	9		30	A
Endosulfan I	72		71		30-150	1		30	A
Endosulfan II	77		74		30-150	4		30	A
Endosulfan sulfate	63		64		30-150	2		30	A
Methoxychlor	78		75		30-150	4		30	A
cis-Chlordane	72		66		30-150	9		30	A
trans-Chlordane	81		76		30-150	6		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1912498

Project Number: 16.6334

Report Date: 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1221296-2 WG1221296-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		75		30-150	B
Decachlorobiphenyl	94		101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		63		30-150	A
Decachlorobiphenyl	92		87		30-150	A

METALS

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1912498-02

Date Collected: 03/19/19 13:50

Client ID: RISB12_6-8

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2690		mg/kg	8.34	2.25	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Antimony, Total	0.384	J	mg/kg	4.17	0.317	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Arsenic, Total	1.87		mg/kg	0.834	0.174	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Barium, Total	8.05		mg/kg	0.834	0.145	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Beryllium, Total	0.125	J	mg/kg	0.417	0.028	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.834	0.082	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Calcium, Total	723		mg/kg	8.34	2.92	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Chromium, Total	3.59		mg/kg	0.834	0.080	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Cobalt, Total	2.77		mg/kg	1.67	0.138	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Copper, Total	7.51		mg/kg	0.834	0.215	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Iron, Total	7760		mg/kg	4.17	0.754	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Lead, Total	2.92	J	mg/kg	4.17	0.224	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Magnesium, Total	926		mg/kg	8.34	1.28	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Manganese, Total	226		mg/kg	0.834	0.133	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.069	0.015	1	03/30/19 06:30	04/01/19 12:50	EPA 7471B	1,7471B	GD
Nickel, Total	5.81		mg/kg	2.09	0.202	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Potassium, Total	255		mg/kg	209	12.0	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Selenium, Total	0.242	J	mg/kg	1.67	0.215	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.834	0.236	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Sodium, Total	20.9	J	mg/kg	167	2.63	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.67	0.263	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Vanadium, Total	8.10		mg/kg	0.834	0.169	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC
Zinc, Total	18.9		mg/kg	4.17	0.244	2	04/02/19 07:10	04/02/19 10:00	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**SAMPLE RESULTS**

Lab ID: L1912498-03

Date Collected: 03/19/19 16:50

Client ID: RISB7_6-8

Date Received: 03/19/19

Sample Location: SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

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	8.14	2.20	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Antimony, Total	1.41	J	mg/kg	4.07	0.309	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Arsenic, Total	2.39		mg/kg	0.814	0.169	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Barium, Total	12.5		mg/kg	0.814	0.142	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Beryllium, Total	0.179	J	mg/kg	0.407	0.027	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.814	0.080	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Calcium, Total	790		mg/kg	8.14	2.85	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Chromium, Total	4.60		mg/kg	0.814	0.078	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Cobalt, Total	3.52		mg/kg	1.63	0.135	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Copper, Total	10.7		mg/kg	0.814	0.210	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Iron, Total	8450		mg/kg	4.07	0.735	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Lead, Total	3.92	J	mg/kg	4.07	0.218	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Magnesium, Total	1240		mg/kg	8.14	1.25	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Manganese, Total	236		mg/kg	0.814	0.129	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	03/30/19 06:30	04/01/19 12:52	EPA 7471B	1,7471B	GD
Nickel, Total	8.20		mg/kg	2.03	0.197	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Potassium, Total	347		mg/kg	203	11.7	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Selenium, Total	0.285	J	mg/kg	1.63	0.210	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.814	0.230	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Sodium, Total	125	J	mg/kg	163	2.56	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.63	0.256	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Vanadium, Total	8.56		mg/kg	0.814	0.165	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC
Zinc, Total	24.7		mg/kg	4.07	0.238	2	04/02/19 07:10	04/02/19 10:17	EPA 3050B	1,6010D	LC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1912498

Project Number: 16.6334

Report Date: 04/02/19

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): 02-03 Batch: WG1221304-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	03/30/19 06:30	04/01/19 11:58	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03 Batch: WG1221992-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Arsenic, Total	0.104	J	mg/kg	0.400	0.083	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Iron, Total	5.08		mg/kg	2.00	0.361	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Manganese, Total	0.576		mg/kg	0.400	0.064	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC
Zinc, Total	0.152	J	mg/kg	2.00	0.117	1	04/02/19 07:10	04/02/19 09:51	1,6010D	LC



Project Name: HAMILTON HILL II TA1 SITE

Lab Number: L1912498

Project Number: 16.6334

Report Date: 04/02/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1912498**Report Date:** 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 Batch: WG1221304-2 SRM Lot Number: D101-540								
Mercury, Total	108		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1912498

Report Date: 04/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 Batch: WG1221992-2 SRM Lot Number: D101-540					
Aluminum, Total	62	-	50-151	-	
Antimony, Total	141	-	3-196	-	
Arsenic, Total	93	-	83-117	-	
Barium, Total	94	-	83-118	-	
Beryllium, Total	87	-	83-117	-	
Cadmium, Total	91	-	83-117	-	
Calcium, Total	90	-	81-119	-	
Chromium, Total	92	-	81-118	-	
Cobalt, Total	90	-	84-116	-	
Copper, Total	91	-	83-116	-	
Iron, Total	71	-	62-138	-	
Lead, Total	89	-	83-117	-	
Magnesium, Total	80	-	76-124	-	
Manganese, Total	86	-	82-118	-	
Nickel, Total	91	-	82-117	-	
Potassium, Total	75	-	71-130	-	
Selenium, Total	93	-	79-121	-	
Silver, Total	94	-	80-120	-	
Sodium, Total	102	-	72-127	-	
Thallium, Total	89	-	81-119	-	
Vanadium, Total	87	-	79-121	-	

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1912498**Report Date:** 04/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 Batch: WG1221992-2 SRM Lot Number: D101-540					
Zinc, Total	90	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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): 02-03 QC Batch ID: WG1221304-3 WG1221304-4 QC Sample: L1912208-03 Client ID: MS Sample												
Mercury, Total	0.517	0.138	0.623	77	Q	0.628	80		80-120	5		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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): 02-03 QC Batch ID: WG1221992-3 QC Sample: L1912498-02 Client ID: RISB12_6-8									
Aluminum, Total	2690	170	3030	200	Q	-	75-125	-	20
Antimony, Total	0.384J	42.5	38.8	91		-	75-125	-	20
Arsenic, Total	1.87	10.2	11.5	94		-	75-125	-	20
Barium, Total	8.05	170	162	91		-	75-125	-	20
Beryllium, Total	0.125J	4.25	3.75	88		-	75-125	-	20
Cadmium, Total	ND	4.33	4.08	94		-	75-125	-	20
Calcium, Total	723	849	1440	84		-	75-125	-	20
Chromium, Total	3.59	17	19.1	91		-	75-125	-	20
Cobalt, Total	2.77	42.5	40.0	88		-	75-125	-	20
Copper, Total	7.51	21.2	25.6	85		-	75-125	-	20
Iron, Total	7760	84.9	7230	0	Q	-	75-125	-	20
Lead, Total	2.92J	43.3	41.2	95		-	75-125	-	20
Magnesium, Total	926	849	1650	85		-	75-125	-	20
Manganese, Total	226	42.5	291	153	Q	-	75-125	-	20
Nickel, Total	5.81	42.5	43.7	89		-	75-125	-	20
Potassium, Total	255	849	961	83		-	75-125	-	20
Selenium, Total	0.242J	10.2	9.31	91		-	75-125	-	20
Silver, Total	ND	25.5	22.0	86		-	75-125	-	20
Sodium, Total	20.9J	849	792	93		-	75-125	-	20
Thallium, Total	ND	10.2	7.79	76		-	75-125	-	20
Vanadium, Total	8.10	42.5	46.3	90		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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): 02-03 QC Batch ID: WG1221992-3 QC Sample: L1912498-02 Client ID: RISB12_6-8									
Zinc, Total	18.9	42.5	59.0	94	-	-	75-125	-	20

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1912498
Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1221992-4 QC Sample: L1912498-02 Client ID: RISB12_6-8						
Aluminum, Total	2690	2670	mg/kg	1		20
Antimony, Total	0.384J	0.471J	mg/kg	NC		20
Arsenic, Total	1.87	1.97	mg/kg	5		20
Barium, Total	8.05	8.09	mg/kg	0		20
Beryllium, Total	0.125J	0.126J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	723	717	mg/kg	1		20
Chromium, Total	3.59	3.56	mg/kg	1		20
Cobalt, Total	2.77	2.80	mg/kg	1		20
Copper, Total	7.51	7.21	mg/kg	4		20
Iron, Total	7760	7600	mg/kg	2		20
Lead, Total	2.92J	2.97J	mg/kg	NC		20
Magnesium, Total	926	917	mg/kg	1		20
Manganese, Total	226	240	mg/kg	6		20
Nickel, Total	5.81	5.77	mg/kg	1		20
Potassium, Total	255	256	mg/kg	0		20
Selenium, Total	0.242J	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	20.9J	21.5J	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II TA1 SITE

Project Number: 16.6334

Lab Number: L1912498

Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1221992-4 QC Sample: L1912498-02 Client ID: RISB12_6-8					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	8.10	8.21	mg/kg	1	20
Zinc, Total	18.9	19.4	mg/kg	3	20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1912498-01
Client ID: RISB4_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:20
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	03/28/19 22:43	121,2540G	YA



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1912498-02
Client ID: RISB12_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 13:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	03/28/19 22:43	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.875	0.175	1	03/29/19 19:00	04/01/19 21:20	1,7196A	AJ



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

SAMPLE RESULTS

Lab ID: L1912498-03
Client ID: RISB7_6-8
Sample Location: SCHENECTADY, NY

Date Collected: 03/19/19 16:50
Date Received: 03/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.0		%	0.100	NA	1	-	03/28/19 22:43	121,2540G	YA
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	03/29/19 19:00	04/01/19 21:20	1,7196A	AJ



Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**Method Blank Analysis**
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1221228-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	03/29/19 19:00	04/01/19 21:20	1,7196A	AJ

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II TA1 SITE**Project Number:** 16.6334**Lab Number:** L1912498**Report Date:** 04/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1221228-2								
Chromium, Hexavalent	91		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1221228-4 WG1221228-5 QC Sample: L1912447-01 Client ID: MS Sample												
Chromium, Hexavalent	ND	1300	553	43	Q	481	39	Q	75-125	14		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1220832-1 QC Sample: L1911974-14 Client ID: DUP Sample						
Solids, Total	86.9	87.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1221228-7 QC Sample: L1912447-01 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1912498-01A	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		TS(7),NYTCL-8081(14)
L1912498-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1912498-02B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		TS(7),NYTCL-8081(14)
L1912498-02C	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)
L1912498-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	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)
L1912498-03B	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L1912498-03C	Glass 120ml/4oz unpreserved	A	NA		4.2	Y	Absent		HEXCR-7196(30)

Project Name: HAMILTON HILL II TA1 SITE**Lab Number:** L1912498**Project Number:** 16.6334**Report Date:** 04/02/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II TA1 SITE
Project Number: 16.6334

Lab Number: L1912498
Report Date: 04/02/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 12

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** 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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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:** Chloride, 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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg. EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

L1912498 JM 3/28/19

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-0300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>3</u>	Date Rec'd in Lab <u>3/20/19</u>	ALPHA Job # <u>4970853</u>	
		Project Information Project Name: <u>Hamilton Hill II TAIL site</u> Project Location: <u>Schenectady, NY</u> Project # <u>166534</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #	
Client Information Client: <u>G.T. Malt Associates</u> Address: <u>50 Century Hill Dr</u> <u>Schenectady, NY 12310</u> Phone: <u>518-560-7400</u> Fax: <u>518-560-7400</u> Email: <u>K.malt@gtmalt.com</u>		Project Manager: <u>John Malt</u> ALPHAQuote #:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:	
Turn-Around Time Standard ☐ Rush (only if pre approved) ☒		Due Date: <u>4/8 Nov</u> # of Days:					
These samples have been previously analyzed by Alpha ☐						ANALYSIS <u>NYTCL-8081, TS</u>	
Other project specific requirements/comments:						<u>NYTCL-8081, TS, TAL, HEXCR-7196</u> (Please Specify below)	
Please specify Metals or TAL.							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	Sample Specific Comments (Please Specify below)	
~~10853~~	RISB4-2-4	3/19/19	1310	Soil	KC	48 Hour TAT	
12498-02	RISB4-4-6		1315		KC	Hold Analysis	
01-03	RISB4-6-8		1320		KC	Hold Analysis	
01-04	RISB12-2-4		1330		KC	48 Hour TAT	
01-05	RISB12-4-6		1340		KC	Hold Analysis	
02-06	RISB12-6-8		1350		KC	Hold Analysis	
02-07	RISB3-2-4		1405		KC	48 Hour TAT	
02-08	RISB3-4-6		1410		KC	Hold Analysis	
02-09	RISB3-6-8		1420		KC	Hold Analysis	
02-10	CB01-190319		1430	Water	RA	Standard TAT	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative	
		Relinquished By: <u>[Signature]</u> Date/Time: <u>3/19/19 17:30</u> <u>3/19/19 17:30</u>		Received By: <u>[Signature]</u> Date/Time: <u>3/19/19 17:30</u> <u>3/20/19 0110</u>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	

Page 42 of 42

JOB: L1932200 REPORT STYLE: Data Usability Report

0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0150: Volatiles Matrix Spike Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0230: Semivolatiles Matrix Spike Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0750: PCBs Matrix Spike Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
0950: Pesticides Matrix Spike Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1040: Metals Matrix Spike Report - OK
1050: Metals Duplicate Report - OK
1180: Inorganics Cover Page - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK

No results found for sample L1932200-06 for product A2-NY-537-ISOTOPE
No results found for sample L1932200-07 for product A2-NY-537-ISOTOPE
No results found for sample L1932200-08 for product A2-NY-537-ISOTOPE
No results found for sample L1932200-18 for product A2-NY-537-ISOTOPE
No results found for sample L1932200-19 for product A2-NY-537-ISOTOPE

No results found for sample L1932200-20 for product A2-NY-537-ISOTOPE



ANALYTICAL REPORT

Lab Number:	L1932200
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II PA1 SITE
Project Number:	16.6334
Report Date:	07/31/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932200-01	RIGP1_0-2	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:45	07/19/19
L1932200-02	RIGP1_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:50	07/19/19
L1932200-03	RIGP1_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:55	07/19/19
L1932200-04	RIGP1_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 11:00	07/19/19
L1932200-05	RIGP1_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 11:05	07/19/19
L1932200-06	RIGP2_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 12:30	07/19/19
L1932200-07	RIGP2_8-12	SOIL	16.6334 SCHENECTADY, NY	07/19/19 12:45	07/19/19
L1932200-08	FD01_190719	SOIL	16.6334 SCHENECTADY, NY	07/19/19 00:00	07/19/19
L1932200-09	RIGP3_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 13:40	07/19/19
L1932200-10	RIGP3_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 13:50	07/19/19
L1932200-11	RIGP4_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:40	07/19/19
L1932200-12	RIGP4_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:45	07/19/19
L1932200-13	RIGP4_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:50	07/19/19
L1932200-14	RIGP4_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:55	07/19/19
L1932200-15	RIGP5_0-2	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:25	07/19/19
L1932200-16	RIGP5_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:30	07/19/19
L1932200-17	RIGP5_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:35	07/19/19
L1932200-18	EB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 11:40	07/19/19
L1932200-19	LTB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 00:00	07/19/19
L1932200-20	FTB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 16:30	07/19/19

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Case Narrative (continued)

Report Submission

July 31, 2019: This is a preliminary report.

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

Volatile Organics

L1932200-19: The Trip Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1264873-5 Method Blank, associated with L1932200-01 through -06, has a concentration above the reporting limit for bromomethane. Since the sample(s) were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

L1932200-07: The surrogate recoveries are above the acceptance criteria for 2-fluorophenol (122%), phenol-d6 (123%), nitrobenzene-d5 (124%), 2-fluorobiphenyl (121%) and 2,4,6-tribromophenol (149%). Since the sample was non-detect for all target analytes, re-analysis was not required.

Total Metals

L1932200-06, -07, -08, -11 and -15: 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 WG1264078-3/-4 MS/MSD recoveries for aluminum (274%/188%), calcium (0%/303%) and iron (1030%/242%), performed on L1932200-07, do not apply because the sample concentrations are greater than four times the spike amounts added.

Cyanide, Total

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

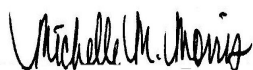
Lab Number: L1932200
Report Date: 07/31/19

Case Narrative (continued)

The WG1262785-2/-3 LCS/LCSD recoveries (42%/63%), associated with L1932200-06, -07, -08, -11 and -15, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/31/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-01
 Client ID: RIGP1_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 03:50
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	3.0		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-01
 Client ID: RIGP1_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Tentatively Identified Compounds

Total TIC Compounds	2.12	J	ug/kg	1
Unknown Alkene	2.12	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-02
 Client ID: RIGP1_2-4
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 04:15
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.89	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.89	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.89	0.11	1
Dibromochloromethane	ND		ug/kg	0.89	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	0.24	1
Tetrachloroethene	3.6		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.89	0.48	1
Ethylbenzene	ND		ug/kg	0.89	0.12	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.89	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-02**Date Collected:** 07/19/19 10:50**Client ID:** RIGP1_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.81	1
Acetone	4.5	J	ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	ND		ug/kg	8.9	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	1.1	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
Methyl Acetate	ND		ug/kg	3.6	0.84	1
Cyclohexane	ND		ug/kg	8.9	0.48	1
1,4-Dioxane	ND		ug/kg	71	31.	1
Freon-113	ND		ug/kg	3.6	0.62	1
Methyl cyclohexane	ND		ug/kg	3.6	0.54	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-02**Date Collected:** 07/19/19 10:50**Client ID:** RIGP1_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	115	J	ug/kg			1
Unknown	3.11	J	ug/kg			1
Unknown	8.01	J	ug/kg			1
Unknown Alkene	37.3	J	ug/kg			1
Unknown Naphthalene	13.8	J	ug/kg			1
Unknown	6.05	J	ug/kg			1
Unknown	27.1	J	ug/kg			1
Unknown	1.97	J	ug/kg			1
Unknown Naphthalene	5.97	J	ug/kg			1
Camphene	7.16	NJ	ug/kg			1
.beta.-Myrcene	4.42	NJ	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-03
 Client ID: RIGP1_4-6
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 04:40
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.84	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.84	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.84	0.10	1
Dibromochloromethane	ND		ug/kg	0.84	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.84	0.22	1
Tetrachloroethene	1.6		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.84	0.46	1
Ethylbenzene	ND		ug/kg	0.84	0.12	1
Chloromethane	ND		ug/kg	3.4	0.78	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.84	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-03
 Client ID: RIGP1_4-6
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.84	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.15	1
Styrene	ND		ug/kg	0.84	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.77	1
Acetone	5.2	J	ug/kg	8.4	4.0	1
Carbon disulfide	ND		ug/kg	8.4	3.8	1
2-Butanone	ND		ug/kg	8.4	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1.1	1
2-Hexanone	ND		ug/kg	8.4	0.99	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.84	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
Methyl Acetate	ND		ug/kg	3.4	0.80	1
Cyclohexane	ND		ug/kg	8.4	0.46	1
1,4-Dioxane	ND		ug/kg	67	30.	1
Freon-113	ND		ug/kg	3.4	0.58	1
Methyl cyclohexane	ND		ug/kg	3.4	0.51	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-04
 Client ID: RIGP1_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:06
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.83	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.83	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.83	0.10	1
Dibromochloromethane	ND		ug/kg	0.83	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	0.22	1
Tetrachloroethene	5.8		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.83	0.45	1
Ethylbenzene	ND		ug/kg	0.83	0.12	1
Chloromethane	ND		ug/kg	3.3	0.77	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.83	0.28	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-04
 Client ID: RIGP1_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.17	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.83	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.14	1
Styrene	ND		ug/kg	0.83	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.76	1
Acetone	5.6	J	ug/kg	8.3	4.0	1
Carbon disulfide	ND		ug/kg	8.3	3.8	1
2-Butanone	ND		ug/kg	8.3	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	1.1	1
2-Hexanone	ND		ug/kg	8.3	0.98	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.83	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.83	1
Isopropylbenzene	ND		ug/kg	0.83	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
Methyl Acetate	ND		ug/kg	3.3	0.79	1
Cyclohexane	ND		ug/kg	8.3	0.45	1
1,4-Dioxane	ND		ug/kg	66	29.	1
Freon-113	ND		ug/kg	3.3	0.57	1
Methyl cyclohexane	ND		ug/kg	3.3	0.50	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-05
 Client ID: RIGP1_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:31
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	8.6		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	0.28	J	ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-05
 Client ID: RIGP1_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	26		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	14		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	2.47	J	ug/kg	1
Unknown Alkene	2.47	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:57
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	1.5		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	5.6	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Tentatively Identified Compounds

Total TIC Compounds	3.91	J	ug/kg	1
Unknown	3.91	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:01
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	1.7		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.87	0.48	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.7	0.51	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Cyclohexane	ND		ug/kg	8.7	0.48	1
1,4-Dioxane	ND		ug/kg	70	31.	1
Freon-113	ND		ug/kg	3.5	0.61	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Tentatively Identified Compounds

Total TIC Compounds	3.33	J	ug/kg	1
Cyclopentane	3.33	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	76		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	88		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:27
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.84	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.84	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.84	0.10	1
Dibromochloromethane	ND		ug/kg	0.84	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.84	0.22	1
Tetrachloroethene	0.64		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.84	0.46	1
Ethylbenzene	ND		ug/kg	0.84	0.12	1
Chloromethane	ND		ug/kg	3.4	0.78	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.84	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.12	1
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.84	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.15	1
Styrene	ND		ug/kg	0.84	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.77	1
Acetone	ND		ug/kg	8.4	4.0	1
Carbon disulfide	ND		ug/kg	8.4	3.8	1
2-Butanone	ND		ug/kg	8.4	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1.1	1
2-Hexanone	ND		ug/kg	8.4	0.99	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.84	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
Methyl Acetate	ND		ug/kg	3.4	0.80	1
Cyclohexane	ND		ug/kg	8.4	0.46	1
1,4-Dioxane	ND		ug/kg	67	29.	1
Freon-113	ND		ug/kg	3.4	0.58	1
Methyl cyclohexane	ND		ug/kg	3.4	0.51	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:53
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.90	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.90	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.90	0.11	1
Dibromochloromethane	ND		ug/kg	0.90	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	0.24	1
Tetrachloroethene	0.80		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.90	0.49	1
Ethylbenzene	ND		ug/kg	0.90	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.90	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1
Trichloroethene	ND		ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.90	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.16	1
Styrene	ND		ug/kg	0.90	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.83	1
Acetone	ND		ug/kg	9.0	4.4	1
Carbon disulfide	ND		ug/kg	9.0	4.1	1
2-Butanone	ND		ug/kg	9.0	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	1.2	1
2-Hexanone	ND		ug/kg	9.0	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.90	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Isopropylbenzene	ND		ug/kg	0.90	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
Methyl Acetate	ND		ug/kg	3.6	0.86	1
Cyclohexane	ND		ug/kg	9.0	0.49	1
1,4-Dioxane	ND		ug/kg	72	32.	1
Freon-113	ND		ug/kg	3.6	0.63	1
Methyl cyclohexane	ND		ug/kg	3.6	0.55	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 23:18
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	2.7		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	5.2	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/23/19 11:08
 Analyst: NLK

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/23/19 11:33
 Analyst: NLK

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
1,3-Dichloropropene, Total	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	7.9		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-19

Date Collected: 07/19/19 00:00

Client ID: LTB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
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
1,3-Dichloropropene, Total	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

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:27
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	3.7		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 21:27
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 21:27
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:29
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:29
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:29
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	99		100		63-130	1		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	99		98		70-130	1		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
Bromoform	98		100		54-136	2		20
1,1,2,2-Tetrachloroethane	90		94		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20
Ethylbenzene	98		97		70-130	1		20
Chloromethane	110		100		64-130	10		20
Bromomethane	78		76		39-139	3		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
Chloroethane	99		100		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	130		120		36-147	8		20
Acetone	120		120		58-148	0		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	100		120		63-138	18		20
4-Methyl-2-pentanone	89		100		59-130	12		20
2-Hexanone	88		95		57-130	8		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	98		100		70-130	2		20
n-Butylbenzene	92		90		53-136	2		20
sec-Butylbenzene	95		94		70-130	1		20
tert-Butylbenzene	97		95		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
1,2-Dibromo-3-chloropropane	75		88		41-144	16		20
Isopropylbenzene	97		95		70-130	2		20
p-Isopropyltoluene	94		93		70-130	1		20
Naphthalene	62	Q	68	Q	70-130	9		20
n-Propylbenzene	97		95		69-130	2		20
1,2,3-Trichlorobenzene	68	Q	71		70-130	4		20
1,2,4-Trichlorobenzene	74		77		70-130	4		20
1,3,5-Trimethylbenzene	97		96		64-130	1		20
1,2,4-Trimethylbenzene	96		96		70-130	0		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	97		93		70-130	4		20
1,4-Dioxane	60		92		56-162	42	Q	20
Freon-113	99		92		70-130	7		20
Methyl cyclohexane	95		93		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
Methylene chloride	87		87		70-130	0		30
1,1-Dichloroethane	106		105		70-130	1		30
Chloroform	96		94		70-130	2		30
Carbon tetrachloride	88		90		70-130	2		30
1,2-Dichloropropane	106		107		70-130	1		30
Dibromochloromethane	96		98		70-130	2		30
1,1,2-Trichloroethane	100		102		70-130	2		30
Tetrachloroethene	102		102		70-130	0		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	76		74		70-139	3		30
1,2-Dichloroethane	101		102		70-130	1		30
1,1,1-Trichloroethane	93		93		70-130	0		30
Bromodichloromethane	86		90		70-130	5		30
trans-1,3-Dichloropropene	92		95		70-130	3		30
cis-1,3-Dichloropropene	88		89		70-130	1		30
Bromoform	91		92		70-130	1		30
1,1,2,2-Tetrachloroethane	101		102		70-130	1		30
Benzene	94		93		70-130	1		30
Toluene	101		99		70-130	2		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	148	Q	142	Q	52-130	4		30
Bromomethane	123		120		57-147	2		30
Vinyl chloride	104		102		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
Chloroethane	72		72		50-151	0		30
1,1-Dichloroethene	92		91		65-135	1		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	88		88		70-130	0		30
1,2-Dichlorobenzene	103		104		70-130	1		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	81		82		66-130	1		30
p/m-Xylene	99		100		70-130	1		30
o-Xylene	94		95		70-130	1		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Styrene	93		93		70-130	0		30
Dichlorodifluoromethane	89		87		30-146	2		30
Acetone	115		114		54-140	1		30
Carbon disulfide	86		84		59-130	2		30
2-Butanone	106		97		70-130	9		30
4-Methyl-2-pentanone	100		101		70-130	1		30
2-Hexanone	116		112		70-130	4		30
Bromochloromethane	96		98		70-130	2		30
1,2-Dibromoethane	102		102		70-130	0		30
1,2-Dibromo-3-chloropropane	86		90		68-130	5		30
Isopropylbenzene	105		106		70-130	1		30
1,2,3-Trichlorobenzene	103		106		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
1,2,4-Trichlorobenzene	104		105		70-130	1		30
Methyl Acetate	123		119		51-146	3		30
Cyclohexane	108		108		59-142	0		30
1,4-Dioxane	80		75		65-136	6		30
Freon-113	89		90		50-139	1		30
Methyl cyclohexane	88		87		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		107		70-130
Toluene-d8	108		108		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
Methylene chloride	90		94		70-130	4		30
1,1-Dichloroethane	100		104		70-130	4		30
Chloroform	99		103		70-130	4		30
Carbon tetrachloride	94		96		70-130	2		30
1,2-Dichloropropane	101		109		70-130	8		30
Dibromochloromethane	104		109		70-130	5		30
1,1,2-Trichloroethane	118		123		70-130	4		30
Tetrachloroethene	113		115		70-130	2		30
Chlorobenzene	106		110		70-130	4		30
Trichlorofluoromethane	97		98		70-139	1		30
1,2-Dichloroethane	84		89		70-130	6		30
1,1,1-Trichloroethane	101		103		70-130	2		30
Bromodichloromethane	99		108		70-130	9		30
trans-1,3-Dichloropropene	112		118		70-130	5		30
cis-1,3-Dichloropropene	105		112		70-130	6		30
Bromoform	115		121		70-130	5		30
1,1,2,2-Tetrachloroethane	116		120		70-130	3		30
Benzene	103		108		70-130	5		30
Toluene	115		120		70-130	4		30
Ethylbenzene	116		119		70-130	3		30
Chloromethane	88		89		52-130	1		30
Bromomethane	109		112		57-147	3		30
Vinyl chloride	113		113		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
Chloroethane	121		125		50-151	3		30
1,1-Dichloroethene	111		112		65-135	1		30
trans-1,2-Dichloroethene	106		110		70-130	4		30
Trichloroethene	106		110		70-130	4		30
1,2-Dichlorobenzene	104		110		70-130	6		30
1,3-Dichlorobenzene	107		114		70-130	6		30
1,4-Dichlorobenzene	106		110		70-130	4		30
Methyl tert butyl ether	84		88		66-130	5		30
p/m-Xylene	113		117		70-130	3		30
o-Xylene	108		112		70-130	4		30
cis-1,2-Dichloroethene	104		109		70-130	5		30
Styrene	108		112		70-130	4		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	61		61		54-140	0		30
Carbon disulfide	94		95		59-130	1		30
2-Butanone	84		87		70-130	4		30
4-Methyl-2-pentanone	98		99		70-130	1		30
2-Hexanone	79		75		70-130	5		30
Bromochloromethane	102		105		70-130	3		30
1,2-Dibromoethane	109		116		70-130	6		30
1,2-Dibromo-3-chloropropane	94		97		68-130	3		30
Isopropylbenzene	115		119		70-130	3		30
1,2,3-Trichlorobenzene	106		110		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
1,2,4-Trichlorobenzene	113		117		70-130	3		30
Methyl Acetate	74		75		51-146	1		30
Cyclohexane	100		98		59-142	2		30
1,4-Dioxane	81		84		65-136	4		30
Freon-113	91		90		50-139	1		30
Methyl cyclohexane	103		102		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		88		70-130
Toluene-d8	108		109		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	92		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Methylene chloride	ND	80.5	66	81		75	79		70-130	13		30
1,1-Dichloroethane	ND	80.5	79	98		90	96		70-130	13		30
Chloroform	ND	80.5	77	95		90	95		70-130	16		30
Carbon tetrachloride	ND	80.5	80	99		96	102		70-130	19		30
1,2-Dichloropropane	ND	80.5	74	92		88	94		70-130	17		30
Dibromochloromethane	ND	80.5	73	90		88	93		70-130	19		30
1,1,2-Trichloroethane	ND	80.5	78	96		92	97		70-130	17		30
Tetrachloroethene	1.7	80.5	67	81		100	107		70-130	43	Q	30
Chlorobenzene	ND	80.5	59	73		87	92		70-130	39	Q	30
Trichlorofluoromethane	ND	80.5	93	115		100	106		70-139	8		30
1,2-Dichloroethane	ND	80.5	64	80		76	80		70-130	17		30
1,1,1-Trichloroethane	ND	80.5	85	105		99	105		70-130	16		30
Bromodichloromethane	ND	80.5	75	94		89	94		70-130	17		30
trans-1,3-Dichloropropene	ND	80.5	74	92		94	99		70-130	24		30
cis-1,3-Dichloropropene	ND	80.5	72	90		91	96		70-130	23		30
Bromoform	ND	80.5	75	93		90	95		70-130	18		30
1,1,2,2-Tetrachloroethane	ND	80.5	71	88		83	88		70-130	16		30
Benzene	ND	80.5	76	94		91	97		70-130	18		30
Toluene	ND	80.5	71	88		96	102		70-130	30		30
Ethylbenzene	ND	80.5	60	75		97	103		70-130	47	Q	30
Chloromethane	ND	80.5	77	96		84	89		52-130	9		30
Bromomethane	ND	80.5	86	107		93	98		57-147	8		30
Vinyl chloride	ND	80.5	100	125		110	113		67-130	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Chloroethane	ND	80.5	100	125		110	115		50-151	8		30
1,1-Dichloroethene	ND	80.5	90	111		100	106		65-135	11		30
trans-1,2-Dichloroethene	ND	80.5	80	99		95	101		70-130	17		30
Trichloroethene	ND	80.5	74	91		95	100		70-130	25		30
1,2-Dichlorobenzene	ND	80.5	48	60	Q	78	83		70-130	47	Q	30
1,3-Dichlorobenzene	ND	80.5	45	56	Q	81	85		70-130	57	Q	30
1,4-Dichlorobenzene	ND	80.5	44	54	Q	78	83		70-130	57	Q	30
Methyl tert butyl ether	ND	80.5	62	77		71	75		66-130	13		30
p/m-Xylene	ND	161	110	69	Q	190	98		70-130	51	Q	30
o-Xylene	ND	161	120	71		180	93		70-130	42	Q	30
cis-1,2-Dichloroethene	ND	80.5	78	97		92	98		70-130	16		30
Styrene	ND	161	110	71		170	92		70-130	42	Q	30
Dichlorodifluoromethane	ND	80.5	80	100		83	88		30-146	3		30
Acetone	ND	80.5	48	59		55	58		54-140	15		30
Carbon disulfide	ND	80.5	71	88		84	89		59-130	16		30
2-Butanone	ND	80.5	52	65	Q	61	65	Q	70-130	16		30
4-Methyl-2-pentanone	ND	80.5	69	86		77	81		70-130	11		30
2-Hexanone	ND	80.5	56	69	Q	65	69	Q	70-130	16		30
Bromochloromethane	ND	80.5	73	90		85	90		70-130	15		30
1,2-Dibromoethane	ND	80.5	71	88		86	91		70-130	19		30
1,2-Dibromo-3-chloropropane	ND	80.5	58	72		68	72		68-130	16		30
Isopropylbenzene	ND	80.5	52	65	Q	94	100		70-130	57	Q	30
1,2,3-Trichlorobenzene	ND	80.5	41	51	Q	72	76		70-130	55	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
1,2,4-Trichlorobenzene	ND	80.5	40	50	Q	76	81		70-130	62	Q	30
Methyl Acetate	ND	80.5	67	83		66	70		51-146	2		30
Cyclohexane	ND	80.5	80	99		95	100		59-142	17		30
1,4-Dioxane	ND	4030	4100	103		3600	77		65-136	13		30
Freon-113	ND	80.5	78	96		83	88		50-139	7		30
Methyl cyclohexane	ND	80.5	76	94		93	98		70-130	21		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	94		97		70-130
Toluene-d8	108		107		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 01:23
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:33

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	250	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	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	230	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-06**Date Collected:** 07/19/19 12:30**Client ID:** RIGP2_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Tentatively Identified Compounds

Total TIC Compounds	793	J	ug/kg	1
Unknown Amide	285	J	ug/kg	1
Unknown Amide	508	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	111		25-120
Phenol-d6	111		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	136		10-136
4-Terphenyl-d14	109		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 03:28
 Analyst: SZ
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	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	520	160	1
Hexachloroethane	ND		ug/kg	140	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	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	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	420	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	22.	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	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	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	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Tentatively Identified Compounds

Total TIC Compounds	968	J	ug/kg	1
Unknown Alkene	172	J	ug/kg	1
Unknown	349	J	ug/kg	1
Unknown Amide	188	J	ug/kg	1
Unknown	259	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	122	Q	25-120
Phenol-d6	123	Q	10-120
Nitrobenzene-d5	124	Q	23-120
2-Fluorobiphenyl	121	Q	30-120
2,4,6-Tribromophenol	149	Q	10-136
4-Terphenyl-d14	118		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 00:08
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	250	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	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	230	47.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Tentatively Identified Compounds

Total TIC Compounds	934	J	ug/kg	1
Unknown Amide	597	J	ug/kg	1
Unknown Amide	337	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	117		25-120
Phenol-d6	116		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	111		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 22:53
 Analyst: SZ
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	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	27.	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	61.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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	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	21	J	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	74.	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	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	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	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-09**Date Collected:** 07/19/19 13:40**Client ID:** RIGP3_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Tentatively Identified Compounds

Total TIC Compounds	278	J	ug/kg	1
Unknown Amide	278	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	93		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 05:59
 Analyst: SZ
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	89	J	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	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	2100		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	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	170	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	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	37.	1
Benzo(a)anthracene	850		ug/kg	100	20.	1
Benzo(a)pyrene	740		ug/kg	140	43.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	940		ug/kg	100	29.	1
Benzo(k)fluoranthene	340		ug/kg	100	28.	1
Chrysene	710		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	400		ug/kg	100	34.	1
Benzo(ghi)perylene	370		ug/kg	140	20.	1
Fluorene	130	J	ug/kg	170	17.	1
Phenanthrene	1500		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	110		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	430		ug/kg	140	24.	1
Pyrene	1500		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	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	58	J	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	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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	34.	1
Carbazole	97	J	ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-10**Date Collected:** 07/19/19 13:50**Client ID:** RIGP3_8-10**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Tentatively Identified Compounds

Total TIC Compounds	1900	J	ug/kg	1
Unknown Ketone	306	J	ug/kg	1
Unknown PAH	180	J	ug/kg	1
Unknown Amide	367	J	ug/kg	1
Unknown PAH	228	J	ug/kg	1
Unknown PAH	302	J	ug/kg	1
Unknown PAH	513	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	109		25-120
Phenol-d6	110		10-120
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	145	Q	10-136
4-Terphenyl-d14	107		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-11
 Client ID: RIGP4_2-4
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 23:18
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-11**Date Collected:** 07/19/19 14:40**Client ID:** RIGP4_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	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	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	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	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	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	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	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	230	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-11**Date Collected:** 07/19/19 14:40**Client ID:** RIGP4_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Tentatively Identified Compounds

Total TIC Compounds	862	J	ug/kg			1
Unknown	862	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	113		25-120
Phenol-d6	112		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	128		10-136
4-Terphenyl-d14	114		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-15
 Client ID: RIGP5_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 23:43
 Analyst: SZ
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	150	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	29.	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	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	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	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-15
 Client ID: RIGP5_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	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	200	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	32.	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	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-15**Date Collected:** 07/19/19 15:25**Client ID:** RIGP5_0-2**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	100		25-120
Phenol-d6	100		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	116		10-136
4-Terphenyl-d14	108		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 01:38
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-18**Date Collected:** 07/19/19 11:40**Client ID:** EB01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	12.7	J	ug/l	1
Aldol Condensates	12.7	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	94		41-149

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/25/19 18:31
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18

Date Collected: 07/19/19 11:40

Client ID: EB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	108		41-149

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/27/19 02:02
 Analyst: MA

Extraction Method: EPA 3510C
 Extraction Date: 07/26/19 18:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	40			15-110		

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/19 23:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/19 23:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	11.3	J	ug/l
Aldol Condensates	11.3	J	ug/l

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 07/25/19 23:56
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	91		41-149

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/25/19 15:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1264144-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 07/25/19 15:45
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1264144-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	122	Q	10-120
4-Terphenyl-d14	110		41-149

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	94		18-120

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/27/19 00:49
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 07/26/19 18:55

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 18 Batch: WG1265196-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3								
Bis(2-chloroethyl)ether	82		83		40-140	1		30
3,3'-Dichlorobenzidine	68		67		40-140	1		30
2,4-Dinitrotoluene	78		75		48-143	4		30
2,6-Dinitrotoluene	82		82		40-140	0		30
4-Chlorophenyl phenyl ether	76		74		40-140	3		30
4-Bromophenyl phenyl ether	77		74		40-140	4		30
Bis(2-chloroisopropyl)ether	121		120		40-140	1		30
Bis(2-chloroethoxy)methane	95		91		40-140	4		30
Hexachlorocyclopentadiene	68		64		40-140	6		30
Isophorone	98		96		40-140	2		30
Nitrobenzene	100		97		40-140	3		30
NDPA/DPA	82		79		40-140	4		30
n-Nitrosodi-n-propylamine	105		103		29-132	2		30
Bis(2-ethylhexyl)phthalate	92		93		40-140	1		30
Butyl benzyl phthalate	94		93		40-140	1		30
Di-n-butylphthalate	94		94		40-140	0		30
Di-n-octylphthalate	98		104		40-140	6		30
Diethyl phthalate	93		90		40-140	3		30
Dimethyl phthalate	85		85		40-140	0		30
Biphenyl	71		69		40-140	3		30
4-Chloroaniline	76		72		40-140	5		30
2-Nitroaniline	83		84		52-143	1		30
3-Nitroaniline	66		62		25-145	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3								
4-Nitroaniline	80		77		51-143	4		30
Dibenzofuran	77		74		40-140	4		30
1,2,4,5-Tetrachlorobenzene	67		64		2-134	5		30
Acetophenone	79		77		39-129	3		30
2,4,6-Trichlorophenol	76		74		30-130	3		30
p-Chloro-m-cresol	93		90		23-97	3		30
2-Chlorophenol	83		81		27-123	2		30
2,4-Dichlorophenol	82		78		30-130	5		30
2,4-Dimethylphenol	56		48		30-130	15		30
2-Nitrophenol	86		86		30-130	0		30
4-Nitrophenol	101	Q	95	Q	10-80	6		30
2,4-Dinitrophenol	83		84		20-130	1		30
4,6-Dinitro-o-cresol	89		88		20-164	1		30
Phenol	75		71		12-110	5		30
3-Methylphenol/4-Methylphenol	83		80		30-130	4		30
2,4,5-Trichlorophenol	83		81		30-130	2		30
Carbazole	96		94		55-144	2		30
Atrazine	125		116		40-140	7		30
Benzaldehyde	75		80		40-140	6		30
Caprolactam	58		58		10-130	0		30
2,3,4,6-Tetrachlorophenol	77		74		40-140	4		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		74		21-120
Phenol-d6	75		72		10-120
Nitrobenzene-d5	100		98		23-120
2-Fluorobiphenyl	81		79		15-120
2,4,6-Tribromophenol	67		62		10-120
4-Terphenyl-d14	87		84		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1264144-2 WG1264144-3								
Acenaphthene	76		94		40-140	21		40
2-Chloronaphthalene	73		94		40-140	25		40
Fluoranthene	92		98		40-140	6		40
Hexachlorobutadiene	48		80		40-140	50	Q	40
Naphthalene	59		88		40-140	39		40
Benzo(a)anthracene	92		102		40-140	10		40
Benzo(a)pyrene	96		108		40-140	12		40
Benzo(b)fluoranthene	92		106		40-140	14		40
Benzo(k)fluoranthene	94		103		40-140	9		40
Chrysene	87		95		40-140	9		40
Acenaphthylene	81		101		40-140	22		40
Anthracene	90		98		40-140	9		40
Benzo(ghi)perylene	91		103		40-140	12		40
Fluorene	82		95		40-140	15		40
Phenanthrene	86		94		40-140	9		40
Dibenzo(a,h)anthracene	97		103		40-140	6		40
Indeno(1,2,3-cd)pyrene	97		108		40-140	11		40
Pyrene	92		98		40-140	6		40
2-Methylnaphthalene	69		93		40-140	30		40
Pentachlorophenol	116		119		40-140	3		40
Hexachlorobenzene	85		98		40-140	14		40
Hexachloroethane	47		85		40-140	58	Q	40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1264144-2 WG1264144-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		70		21-120
Phenol-d6	46		62		10-120
Nitrobenzene-d5	65		98		23-120
2-Fluorobiphenyl	73		92		15-120
2,4,6-Tribromophenol	106		95		10-120
4-Terphenyl-d14	103		106		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
Acenaphthene	85		92		31-137	8		50
Hexachlorobenzene	94		106		40-140	12		50
Bis(2-chloroethyl)ether	85		94		40-140	10		50
2-Chloronaphthalene	92		100		40-140	8		50
3,3'-Dichlorobenzidine	66		73		40-140	10		50
2,4-Dinitrotoluene	96		107		40-132	11		50
2,6-Dinitrotoluene	101		112		40-140	10		50
Fluoranthene	91		101		40-140	10		50
4-Chlorophenyl phenyl ether	91		99		40-140	8		50
4-Bromophenyl phenyl ether	95		105		40-140	10		50
Bis(2-chloroisopropyl)ether	74		81		40-140	9		50
Bis(2-chloroethoxy)methane	89		97		40-117	9		50
Hexachlorobutadiene	88		97		40-140	10		50
Hexachlorocyclopentadiene	89		98		40-140	10		50
Hexachloroethane	79		88		40-140	11		50
Isophorone	93		102		40-140	9		50
Naphthalene	84		91		40-140	8		50
Nitrobenzene	91		101		40-140	10		50
NDPA/DPA	91		100		36-157	9		50
n-Nitrosodi-n-propylamine	91		99		32-121	8		50
Bis(2-ethylhexyl)phthalate	82		92		40-140	11		50
Butyl benzyl phthalate	89		98		40-140	10		50
Di-n-butylphthalate	95		107		40-140	12		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
Di-n-octylphthalate	89		100		40-140	12		50
Diethyl phthalate	93		103		40-140	10		50
Dimethyl phthalate	99		109		40-140	10		50
Benzo(a)anthracene	88		97		40-140	10		50
Benzo(a)pyrene	102		110		40-140	8		50
Benzo(b)fluoranthene	93		100		40-140	7		50
Benzo(k)fluoranthene	91		100		40-140	9		50
Chrysene	82		90		40-140	9		50
Acenaphthylene	94		104		40-140	10		50
Anthracene	90		100		40-140	11		50
Benzo(ghi)perylene	90		98		40-140	9		50
Fluorene	87		96		40-140	10		50
Phenanthrene	83		93		40-140	11		50
Dibenzo(a,h)anthracene	89		97		40-140	9		50
Indeno(1,2,3-cd)pyrene	93		104		40-140	11		50
Pyrene	89		98		35-142	10		50
Biphenyl	97		105	Q	54-104	8		50
4-Chloroaniline	82		81		40-140	1		50
2-Nitroaniline	99		111		47-134	11		50
3-Nitroaniline	81		89		26-129	9		50
4-Nitroaniline	91		99		41-125	8		50
Dibenzofuran	85		93		40-140	9		50
2-Methylnaphthalene	88		96		40-140	9		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
1,2,4,5-Tetrachlorobenzene	95		105		40-117	10		50
Acetophenone	100		110		14-144	10		50
2,4,6-Trichlorophenol	105		119		30-130	13		50
p-Chloro-m-cresol	96		107	Q	26-103	11		50
2-Chlorophenol	90		99		25-102	10		50
2,4-Dichlorophenol	98		109		30-130	11		50
2,4-Dimethylphenol	98		110		30-130	12		50
2-Nitrophenol	104		116		30-130	11		50
4-Nitrophenol	90		98		11-114	9		50
2,4-Dinitrophenol	107		115		4-130	7		50
4,6-Dinitro-o-cresol	102		110		10-130	8		50
Pentachlorophenol	94		106		17-109	12		50
Phenol	84		91	Q	26-90	8		50
2-Methylphenol	92		102		30-130	10		50
3-Methylphenol/4-Methylphenol	93		101		30-130	8		50
2,4,5-Trichlorophenol	104		116		30-130	11		50
Carbazole	85		95		54-128	11		50
Atrazine	121		134		40-140	10		50
Benzaldehyde	95		104		40-140	9		50
Caprolactam	100		109		15-130	9		50
2,3,4,6-Tetrachlorophenol	93		103		40-140	10		50
1,4-Dioxane	78		74		40-140	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	94		103		25-120
Phenol-d6	94		103		10-120
Nitrobenzene-d5	95		106		23-120
2-Fluorobiphenyl	91		102		30-120
2,4,6-Tribromophenol	108		121		10-136
4-Terphenyl-d14	94		103		18-120

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 18 Batch: WG1265196-2 WG1265196-3								
1,4-Dioxane	122		119		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	36		38		15-110

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Acenaphthene	ND	1440	1400	97		1300	91		31-137	7		50
Hexachlorobenzene	ND	1440	1700	120		1500	100		40-140	13		50
Bis(2-chloroethyl)ether	ND	1440	1400	97		1300	91		40-140	7		50
2-Chloronaphthalene	ND	1440	1600	110		1500	100		40-140	6		50
3,3'-Dichlorobenzidine	ND	1440	1300	90		1200	84		40-140	8		50
2,4-Dinitrotoluene	ND	1440	1700	120		1600	110		40-132	6		50
2,6-Dinitrotoluene	ND	1440	1900	130		1600	110		40-140	17		50
Fluoranthene	ND	1440	1600	110		1500	100		40-140	6		50
4-Chlorophenyl phenyl ether	ND	1440	1600	110		1400	98		40-140	13		50
4-Bromophenyl phenyl ether	ND	1440	1700	120		1600	110		40-140	6		50
Bis(2-chloroisopropyl)ether	ND	1440	1200	83		1100	77		40-140	9		50
Bis(2-chloroethoxy)methane	ND	1440	1500	100		1400	98		40-117	7		50
Hexachlorobutadiene	ND	1440	1500	100		1400	98		40-140	7		50
Hexachlorocyclopentadiene	ND	1440	1600	110		1500	100		40-140	6		50
Hexachloroethane	ND	1440	1300	90		1200	84		40-140	8		50
Isophorone	ND	1440	1600	110		1500	100		40-140	6		50
Naphthalene	ND	1440	1400	97		1300	91		40-140	7		50
Nitrobenzene	ND	1440	1600	110		1400	98		40-140	13		50
NDPA/DPA	ND	1440	1600	110		1500	100		36-157	6		50
n-Nitrosodi-n-propylamine	ND	1440	1600	110		1400	98		32-121	13		50
Bis(2-ethylhexyl)phthalate	ND	1440	1400	97		1400	98		40-140	0		50
Butyl benzyl phthalate	ND	1440	1600	110		1500	100		40-140	6		50
Di-n-butylphthalate	ND	1440	1700	120		1600	110		40-140	6		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Di-n-octylphthalate	ND	1440	1600	110		1500	100		40-140	6		50
Diethyl phthalate	ND	1440	1600	110		1500	100		40-140	6		50
Dimethyl phthalate	ND	1440	1800	120		1600	110		40-140	12		50
Benzo(a)anthracene	ND	1440	1500	100		1400	98		40-140	7		50
Benzo(a)pyrene	ND	1440	1800	120		1600	110		40-140	12		50
Benzo(b)fluoranthene	ND	1440	1600	110		1500	100		40-140	6		50
Benzo(k)fluoranthene	ND	1440	1600	110		1400	98		40-140	13		50
Chrysene	ND	1440	1400	97		1300	91		40-140	7		50
Acenaphthylene	ND	1440	1700	120		1500	100		40-140	13		50
Anthracene	ND	1440	1600	110		1400	98		40-140	13		50
Benzo(ghi)perylene	ND	1440	1500	100		1400	98		40-140	7		50
Fluorene	ND	1440	1500	100		1400	98		40-140	7		50
Phenanthrene	ND	1440	1500	100		1300	91		40-140	14		50
Dibenzo(a,h)anthracene	ND	1440	1500	100		1400	98		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1440	1600	110		1500	100		40-140	6		50
Pyrene	ND	1440	1600	110		1400	98		35-142	13		50
Biphenyl	ND	1440	1700	120	Q	1500	100		54-104	13		50
4-Chloroaniline	ND	1440	1200	83		1100	77		40-140	9		50
2-Nitroaniline	ND	1440	1900	130		1600	110		47-134	17		50
3-Nitroaniline	ND	1440	1600	110		1400	98		26-129	13		50
4-Nitroaniline	ND	1440	1700	120		1500	100		41-125	13		50
Dibenzofuran	ND	1440	1500	100		1400	98		40-140	7		50
2-Methylnaphthalene	ND	1440	1500	100		1400	98		40-140	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
1,2,4,5-Tetrachlorobenzene	ND	1440	1700	120	Q	1500	100		40-117	13		50
Acetophenone	ND	1440	1700	120		1600	110		14-144	6		50
2,4,6-Trichlorophenol	ND	1440	2100	150	Q	1800	130		30-130	15		50
p-Chloro-m-cresol	ND	1440	1800	120	Q	1600	110	Q	26-103	12		50
2-Chlorophenol	ND	1440	1600	110	Q	1400	98		25-102	13		50
2,4-Dichlorophenol	ND	1440	1800	120		1600	110		30-130	12		50
2,4-Dimethylphenol	ND	1440	1700	120		1500	100		30-130	13		50
2-Nitrophenol	ND	1440	1900	130		1700	120		30-130	11		50
4-Nitrophenol	ND	1440	1600	110		1500	100		11-114	6		50
2,4-Dinitrophenol	ND	1440	720J	50		640J	45		4-130	12		50
4,6-Dinitro-o-cresol	ND	1440	1400	97		1300	91		10-130	7		50
Pentachlorophenol	ND	1440	2000	140	Q	1800	130	Q	17-109	11		50
Phenol	ND	1440	1400	97	Q	1300	91	Q	26-90	7		50
2-Methylphenol	ND	1440	1600	110		1400	98		30-130.	13		50
3-Methylphenol/4-Methylphenol	ND	1440	1600	110		1500	100		30-130	6		50
2,4,5-Trichlorophenol	ND	1440	2000	140	Q	1800	130		30-130	11		50
Carbazole	ND	1440	1500	100		1400	98		54-128	7		50
Atrazine	ND	1440	2200	150	Q	2000	140		40-140	10		50
Benzaldehyde	ND	1440	1700	120		1600	110		40-140	6		50
Caprolactam	ND	1440	1700	120		1500	100		15-130	13		50
2,3,4,6-Tetrachlorophenol	ND	1440	1800	120		1600	110		40-140	12		50
1,4-Dioxane	ND	1440	1000	69		1000	70		40-140	0		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07
 Client ID: RIGP2_8-12

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	143	Q	127		10-136
2-Fluorobiphenyl	111		98		30-120
2-Fluorophenol	106		97		25-120
4-Terphenyl-d14	102		100		18-120
Nitrobenzene-d5	111		104		23-120
Phenol-d6	106		97		10-120

PCBS

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 04:19
 Analyst: KB
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	3.01	1	A
Aroclor 1221	ND		ug/kg	33.8	3.39	1	A
Aroclor 1232	ND		ug/kg	33.8	7.18	1	A
Aroclor 1242	17.6	J	ug/kg	33.8	4.56	1	A
Aroclor 1248	ND		ug/kg	33.8	5.08	1	A
Aroclor 1254	ND		ug/kg	33.8	3.70	1	A
Aroclor 1260	ND		ug/kg	33.8	6.26	1	A
Aroclor 1262	ND		ug/kg	33.8	4.30	1	A
Aroclor 1268	ND		ug/kg	33.8	3.51	1	A
PCBs, Total	17.6	J	ug/kg	33.8	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 03:42
 Analyst: KB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.69	1	A
Aroclor 1242	ND		ug/kg	36.3	4.89	1	A
Aroclor 1248	ND		ug/kg	36.3	5.44	1	A
Aroclor 1254	ND		ug/kg	36.3	3.97	1	A
Aroclor 1260	ND		ug/kg	36.3	6.71	1	A
Aroclor 1262	ND		ug/kg	36.3	4.61	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 04:31
 Analyst: KB
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	2.98	1	A
Aroclor 1221	ND		ug/kg	33.6	3.36	1	A
Aroclor 1232	ND		ug/kg	33.6	7.11	1	A
Aroclor 1242	ND		ug/kg	33.6	4.52	1	A
Aroclor 1248	ND		ug/kg	33.6	5.03	1	A
Aroclor 1254	ND		ug/kg	33.6	3.67	1	A
Aroclor 1260	ND		ug/kg	33.6	6.20	1	A
Aroclor 1262	ND		ug/kg	33.6	4.26	1	A
Aroclor 1268	ND		ug/kg	33.6	3.48	1	A
PCBs, Total	ND		ug/kg	33.6	2.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 07/26/19 17:42
 Analyst: AWS

Extraction Method: EPA 3510C
 Extraction Date: 07/20/19 20:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/22/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/23/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	0.080	J	ug/l	0.083	0.049	1	B
Aroclor 1254	0.069	JP	ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.149	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/22/19 11:30
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 07/20/19 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 18 Batch: WG1262314-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/25/19 14:37
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 07/25/19 04:55
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264199-1						
Aroclor 1016	ND		ug/kg	32.9	2.92	A
Aroclor 1221	ND		ug/kg	32.9	3.30	A
Aroclor 1232	ND		ug/kg	32.9	6.97	A
Aroclor 1242	ND		ug/kg	32.9	4.43	A
Aroclor 1248	ND		ug/kg	32.9	4.93	A
Aroclor 1254	ND		ug/kg	32.9	3.60	A
Aroclor 1260	ND		ug/kg	32.9	6.08	A
Aroclor 1262	ND		ug/kg	32.9	4.18	A
Aroclor 1268	ND		ug/kg	32.9	3.41	A
PCBs, Total	ND		ug/kg	32.9	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 18 Batch: WG1262314-2 WG1262314-3									
Aroclor 1016	69		65		40-140	7		50	A
Aroclor 1260	61		63		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		59		30-150	A
Decachlorobiphenyl	67		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		59		30-150	B
Decachlorobiphenyl	74		73		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264199-2 WG1264199-3									
Aroclor 1016	74		84		40-140	13		50	A
Aroclor 1260	58		68		40-140	16		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		90		30-150	A
Decachlorobiphenyl	66		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		90		30-150	B
Decachlorobiphenyl	70		82		30-150	B

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19

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): 06-08 QC Batch ID: WG1264199-6 WG1264199-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12													
Aroclor 1016	ND	220	180	82		188	86		40-140	4		50	A
Aroclor 1260	ND	220	128	58		131	60		40-140	2		50	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		78		30-150	A
Decachlorobiphenyl	54		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	B
Decachlorobiphenyl	63		66		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 03:29
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.318	1	A
Lindane	ND		ug/kg	0.677	0.302	1	A
Alpha-BHC	ND		ug/kg	0.677	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.616	1	A
Heptachlor	ND		ug/kg	0.812	0.364	1	A
Aldrin	ND		ug/kg	1.62	0.572	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.913	1	A
Endrin	ND		ug/kg	0.677	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.710	1	A
Endrin ketone	ND		ug/kg	1.62	0.418	1	A
Dieldrin	ND		ug/kg	1.01	0.507	1	A
4,4'-DDE	ND		ug/kg	1.62	0.376	1	A
4,4'-DDD	ND		ug/kg	1.62	0.579	1	A
4,4'-DDT	ND		ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.384	1	A
Endosulfan II	ND		ug/kg	1.62	0.543	1	A
Endosulfan sulfate	ND		ug/kg	0.677	0.322	1	A
Methoxychlor	ND		ug/kg	3.04	0.947	1	A
Toxaphene	ND		ug/kg	30.4	8.52	1	A
cis-Chlordane	ND		ug/kg	2.03	0.566	1	A
trans-Chlordane	ND		ug/kg	2.03	0.536	1	A
Chlordane	ND		ug/kg	13.2	5.38	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-06**Date Collected:** 07/19/19 12:30**Client ID:** RIGP2_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 02:50
 Analyst: AMC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

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	0.688	0.308	1	A
Alpha-BHC	ND		ug/kg	0.688	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.929	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND	IP	ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.67	1	A
cis-Chlordane	ND		ug/kg	2.06	0.576	1	A
trans-Chlordane	ND		ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.4	5.47	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 03:42
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.70	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.746	1	A
Endrin ketone	ND		ug/kg	1.70	0.439	1	A
Dieldrin	ND		ug/kg	1.07	0.533	1	A
4,4'-DDE	ND		ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.608	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.403	1	A
Endosulfan II	ND		ug/kg	1.70	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.995	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	ND		ug/kg	2.13	0.594	1	A
trans-Chlordane	ND		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	13.9	5.65	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-08**Date Collected:** 07/19/19 00:00**Client ID:** FD01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 12:32
 Analyst: AMC

Extraction Method: EPA 3510C
 Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-18**Date Collected:** 07/19/19 11:40**Client ID:** EB01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/27/19 14:39
Analyst: AMC

Extraction Method: EPA 3510C
Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1263667-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/27/19 14:39
Analyst: AMC

Extraction Method: EPA 3510C
Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1263667-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
Analytical Date: 07/26/19 14:54
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/26/19 02:28
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264768-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.282	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.575	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.84	0.853	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.948	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.84	0.885	A
Toxaphene	ND		ug/kg	28.4	7.96	A
cis-Chlordane	ND		ug/kg	1.90	0.528	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.02	A

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/26/19 14:54
 Analyst: AMC

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264768-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	84		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1263667-2 WG1263667-3									
Delta-BHC	76		85		30-150	11		20	A
Lindane	73		82		30-150	12		20	A
Alpha-BHC	73		82		30-150	12		20	A
Beta-BHC	75		84		30-150	11		20	A
Heptachlor	67		75		30-150	11		20	A
Aldrin	65		72		30-150	10		20	A
Heptachlor epoxide	73		83		30-150	12		20	A
Endrin	75		85		30-150	12		20	A
Endrin aldehyde	61		73		30-150	17		20	A
Endrin ketone	80		92		30-150	13		20	A
Dieldrin	75		85		30-150	12		20	A
4,4'-DDE	75		84		30-150	12		20	A
4,4'-DDD	75		85		30-150	12		20	A
4,4'-DDT	75		86		30-150	13		20	A
Endosulfan I	67		75		30-150	11		20	A
Endosulfan II	72		81		30-150	12		20	A
Endosulfan sulfate	72		82		30-150	13		20	A
Methoxychlor	68		79		30-150	15		20	A
cis-Chlordane	72		80		30-150	10		20	A
trans-Chlordane	68		76		30-150	12		20	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1263667-2 WG1263667-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		71		30-150	A
Decachlorobiphenyl	74		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		74		30-150	B
Decachlorobiphenyl	96		108		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264768-2 WG1264768-3									
Delta-BHC	91		98		30-150	7		30	A
Lindane	92		99		30-150	7		30	A
Alpha-BHC	96		102		30-150	6		30	A
Beta-BHC	84		90		30-150	7		30	A
Heptachlor	96		103		30-150	7		30	A
Aldrin	89		94		30-150	5		30	A
Heptachlor epoxide	90		96		30-150	6		30	A
Endrin	91		98		30-150	7		30	A
Endrin aldehyde	59		60		30-150	2		30	A
Endrin ketone	78		84		30-150	7		30	A
Dieldrin	94		100		30-150	6		30	A
4,4'-DDE	87		92		30-150	6		30	A
4,4'-DDD	90		97		30-150	7		30	A
4,4'-DDT	91		98		30-150	7		30	A
Endosulfan I	82		88		30-150	7		30	A
Endosulfan II	86		92		30-150	7		30	A
Endosulfan sulfate	71		76		30-150	7		30	A
Methoxychlor	101		109		30-150	8		30	A
cis-Chlordane	78		84		30-150	7		30	A
trans-Chlordane	70		78		30-150	11		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264768-2 WG1264768-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		82		30-150	B
Decachlorobiphenyl	83		87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		92		30-150	A
Decachlorobiphenyl	85		92		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

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: RIGP2_8-12 Associated sample(s): 06-08 QC Batch ID: WG1264768-4 WG1264768-5 QC Sample: L1932200-07 Client													
Delta-BHC	ND	35.7	31.9	89		31.6	89		30-150	1		50	A
Lindane	ND	35.7	32.3	91		31.6	89		30-150	2		50	A
Alpha-BHC	ND	35.7	34.0	95		32.9	93		30-150	3		50	A
Beta-BHC	ND	35.7	29.6	83		29.2	83		30-150	1		50	A
Heptachlor	ND	35.7	33.9	95		33.4	95		30-150	1		50	A
Aldrin	ND	35.7	31.0	87		31.0	88		30-150	0		50	A
Heptachlor epoxide	ND	35.7	31.7	89		31.8	90		30-150	0		50	A
Endrin	ND	35.7	32.5	91		33.3	94		30-150	2		50	A
Endrin aldehyde	ND	35.7	23.3	65		24.4	69		30-150	5		50	A
Endrin ketone	ND	35.7	29.2	82		30.0	85		30-150	3		50	A
Dieldrin	ND	35.7	32.8	92		33.4	95		30-150	2		50	A
4,4'-DDE	ND	35.7	30.6	86		31.5	89		30-150	3		50	A
4,4'-DDD	ND	35.7	31.6	89		33.3	94		30-150	5		50	A
4,4'-DDT	NDIP	35.7	32.8	92		34.4	97		30-150	5		50	A
Endosulfan I	ND	35.7	29.1	82		29.6	84		30-150	2		50	A
Endosulfan II	ND	35.7	30.6	86		31.7	90		30-150	4		50	A
Endosulfan sulfate	ND	35.7	25.9	73		26.9	76		30-150	4		50	A
Methoxychlor	ND	35.7	37.7	106		38.7	109		30-150	3		50	A
cis-Chlordane	ND	35.7	27.5	77		27.8	79		30-150	1		50	A
trans-Chlordane	ND	35.7	26.9	75		26.4	75		30-150	2		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19

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): 06-08 QC Batch ID: WG1264768-4 WG1264768-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		73		30-150	B
Decachlorobiphenyl	87		89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		85		30-150	A
Decachlorobiphenyl	89		98		30-150	A

METALS

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-06

Date Collected: 07/19/19 12:30

Client ID: RIGP2_6-8

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3290		mg/kg	8.26	2.23	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Antimony, Total	0.322	J	mg/kg	4.13	0.314	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Arsenic, Total	2.50		mg/kg	0.826	0.172	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Barium, Total	10.2		mg/kg	0.826	0.144	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Beryllium, Total	0.215	J	mg/kg	0.413	0.027	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Cadmium, Total	0.165	J	mg/kg	0.826	0.081	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Calcium, Total	1100		mg/kg	8.26	2.89	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Chromium, Total	4.10		mg/kg	0.826	0.079	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Cobalt, Total	3.39		mg/kg	1.65	0.137	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Copper, Total	10.0		mg/kg	0.826	0.213	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Iron, Total	9150		mg/kg	4.13	0.746	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Lead, Total	3.78	J	mg/kg	4.13	0.221	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Magnesium, Total	1360		mg/kg	8.26	1.27	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Manganese, Total	221		mg/kg	0.826	0.131	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.044	1	07/25/19 06:20	07/25/19 16:36	EPA 7471B	1,7471B	GD
Nickel, Total	7.48		mg/kg	2.06	0.200	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Potassium, Total	257		mg/kg	206	11.9	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Selenium, Total	0.364	J	mg/kg	1.65	0.213	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.826	0.234	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Sodium, Total	33.3	J	mg/kg	165	2.60	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Vanadium, Total	9.90		mg/kg	0.826	0.168	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Zinc, Total	22.6		mg/kg	4.13	0.242	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-07

Date Collected: 07/19/19 12:45

Client ID: RIGP2_8-12

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2670		mg/kg	8.72	2.35	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Antimony, Total	0.358	J	mg/kg	4.36	0.331	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Arsenic, Total	2.14		mg/kg	0.872	0.181	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Barium, Total	10.9		mg/kg	0.872	0.152	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Beryllium, Total	0.192	J	mg/kg	0.436	0.029	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Cadmium, Total	0.174	J	mg/kg	0.872	0.086	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Calcium, Total	12300		mg/kg	8.72	3.05	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Chromium, Total	3.03		mg/kg	0.872	0.084	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Cobalt, Total	2.92		mg/kg	1.74	0.145	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Copper, Total	8.54		mg/kg	0.872	0.225	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Iron, Total	8560		mg/kg	4.36	0.787	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Lead, Total	3.46	J	mg/kg	4.36	0.234	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Magnesium, Total	1470		mg/kg	8.72	1.34	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Manganese, Total	219		mg/kg	0.872	0.139	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.069	0.045	1	07/25/19 06:20	07/25/19 16:09	EPA 7471B	1,7471B	GD
Nickel, Total	6.77		mg/kg	2.18	0.211	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Potassium, Total	243		mg/kg	218	12.6	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Selenium, Total	0.418	J	mg/kg	1.74	0.225	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Sodium, Total	57.0	J	mg/kg	174	2.75	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.74	0.275	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Vanadium, Total	8.74		mg/kg	0.872	0.177	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Zinc, Total	19.2		mg/kg	4.36	0.256	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-08

Date Collected: 07/19/19 00:00

Client ID: FD01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3310		mg/kg	8.29	2.24	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.14	0.315	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Arsenic, Total	2.66		mg/kg	0.829	0.172	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Barium, Total	11.2		mg/kg	0.829	0.144	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Beryllium, Total	0.257	J	mg/kg	0.414	0.027	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Cadmium, Total	0.182	J	mg/kg	0.829	0.081	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Calcium, Total	922		mg/kg	8.29	2.90	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Chromium, Total	3.83		mg/kg	0.829	0.080	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Cobalt, Total	3.32		mg/kg	1.66	0.138	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Copper, Total	10.2		mg/kg	0.829	0.214	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Iron, Total	9800		mg/kg	4.14	0.748	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Lead, Total	3.72	J	mg/kg	4.14	0.222	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Magnesium, Total	1200		mg/kg	8.29	1.28	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Manganese, Total	240		mg/kg	0.829	0.132	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.044	1	07/25/19 06:20	07/25/19 16:42	EPA 7471B	1,7471B	GD
Nickel, Total	7.45		mg/kg	2.07	0.200	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Potassium, Total	267		mg/kg	207	11.9	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Selenium, Total	0.522	J	mg/kg	1.66	0.214	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.829	0.234	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Sodium, Total	34.1	J	mg/kg	166	2.61	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.261	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Vanadium, Total	10.1		mg/kg	0.829	0.168	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Zinc, Total	23.0		mg/kg	4.14	0.243	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-11

Date Collected: 07/19/19 14:40

Client ID: RIGP4_2-4

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3490		mg/kg	8.42	2.27	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.21	0.320	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Arsenic, Total	2.13		mg/kg	0.842	0.175	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Barium, Total	8.81		mg/kg	0.842	0.146	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Beryllium, Total	0.227	J	mg/kg	0.421	0.028	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Cadmium, Total	0.152	J	mg/kg	0.842	0.083	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Calcium, Total	537		mg/kg	8.42	2.95	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Chromium, Total	3.03		mg/kg	0.842	0.081	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Cobalt, Total	3.21		mg/kg	1.68	0.140	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Copper, Total	8.30		mg/kg	0.842	0.217	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Iron, Total	8910		mg/kg	4.21	0.761	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Lead, Total	2.58	J	mg/kg	4.21	0.226	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Magnesium, Total	1220		mg/kg	8.42	1.30	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Manganese, Total	186		mg/kg	0.842	0.134	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.044	1	07/25/19 09:30	07/25/19 17:36	EPA 7471B	1,7471B	GD
Nickel, Total	6.85		mg/kg	2.10	0.204	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Potassium, Total	237		mg/kg	210	12.1	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Selenium, Total	0.371	J	mg/kg	1.68	0.217	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.842	0.238	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Sodium, Total	99.8	J	mg/kg	168	2.65	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.68	0.265	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Vanadium, Total	9.28		mg/kg	0.842	0.171	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Zinc, Total	18.5		mg/kg	4.21	0.247	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-15

Date Collected: 07/19/19 15:25

Client ID: RIGP5_0-2

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2730		mg/kg	8.24	2.22	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.12	0.313	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Arsenic, Total	1.85		mg/kg	0.824	0.171	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Barium, Total	16.5		mg/kg	0.824	0.143	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Beryllium, Total	0.190	J	mg/kg	0.412	0.027	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Cadmium, Total	0.239	J	mg/kg	0.824	0.081	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Calcium, Total	1380		mg/kg	8.24	2.88	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Chromium, Total	3.35		mg/kg	0.824	0.079	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Cobalt, Total	2.93		mg/kg	1.65	0.137	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Copper, Total	10.2		mg/kg	0.824	0.213	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Iron, Total	8020		mg/kg	4.12	0.744	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Lead, Total	32.9		mg/kg	4.12	0.221	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Magnesium, Total	1170		mg/kg	8.24	1.27	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Manganese, Total	200		mg/kg	0.824	0.131	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Mercury, Total	0.061	J	mg/kg	0.066	0.043	1	07/25/19 06:20	07/25/19 16:43	EPA 7471B	1,7471B	GD
Nickel, Total	6.59		mg/kg	2.06	0.199	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Potassium, Total	230		mg/kg	206	11.9	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Selenium, Total	0.363	J	mg/kg	1.65	0.213	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.824	0.233	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Sodium, Total	37.1	J	mg/kg	165	2.60	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Vanadium, Total	8.46		mg/kg	0.824	0.167	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Zinc, Total	74.5		mg/kg	4.12	0.242	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**SAMPLE RESULTS**

Lab ID: L1932200-18

Date Collected: 07/19/19 11:40

Client ID: EB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.109		mg/l	0.0100	0.00327	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00016	J	mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Barium, Total	0.00104		mg/l	0.00050	0.00017	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Calcium, Total	0.612		mg/l	0.100	0.0394	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.00055	J	mg/l	0.00100	0.00017	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Copper, Total	0.00060	J	mg/l	0.00100	0.00038	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Iron, Total	0.353		mg/l	0.0700	0.0191	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Lead, Total	0.00047	J	mg/l	0.00100	0.00034	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Magnesium, Total	0.112		mg/l	0.0700	0.0242	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Manganese, Total	0.01286		mg/l	0.00100	0.00044	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 12:21	07/25/19 21:51	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Potassium, Total	0.0907	J	mg/l	0.100	0.0309	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Sodium, Total	0.208		mg/l	0.100	0.0293	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

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): 18 Batch: WG1263841-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Antimony, Total	0.00059	J	mg/l	0.00400	0.00042	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Iron, Total	0.0252	J	mg/l	0.0700	0.0191	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Thallium, Total	0.00015	J	mg/l	0.00050	0.00014	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-08,11,15 Batch: WG1264078-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Barium, Total	ND		mg/kg	0.400	0.070	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Iron, Total	0.400	J	mg/kg	2.00	0.361	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/24/19 20:35	07/25/19 16:57	1,6010D	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): 06-08,15 Batch: WG1264201-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/25/19 06:20	07/25/19 16:05	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

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): 11 Batch: WG1264313-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/25/19 09:30	07/25/19 11:21	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 18 Batch: WG1264464-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 12:21	07/25/19 21:41	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1263841-2								
Aluminum, Total	100		-		80-120	-		
Antimony, Total	80		-		80-120	-		
Arsenic, Total	101		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	111		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Calcium, Total	102		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	101		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	114		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	99		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	101		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Thallium, Total	106		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control**Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1263841-2					
Zinc, Total	108	-	80-120	-	

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08,11,15 Batch: WG1264078-2 SRM Lot Number: D105-540					
Aluminum, Total	61	-	51-149	-	
Antimony, Total	150	-	19-249	-	
Arsenic, Total	102	-	70-130	-	
Barium, Total	86	-	75-125	-	
Beryllium, Total	92	-	75-125	-	
Cadmium, Total	97	-	75-125	-	
Calcium, Total	83	-	73-127	-	
Chromium, Total	87	-	70-130	-	
Cobalt, Total	97	-	75-125	-	
Copper, Total	94	-	75-125	-	
Iron, Total	76	-	38-162	-	
Lead, Total	96	-	71-128	-	
Magnesium, Total	82	-	63-137	-	
Manganese, Total	88	-	76-124	-	
Nickel, Total	98	-	70-131	-	
Potassium, Total	76	-	60-140	-	
Selenium, Total	100	-	63-137	-	
Silver, Total	90	-	69-131	-	
Sodium, Total	94	-	37-162	-	
Thallium, Total	97	-	68-132	-	
Vanadium, Total	89	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08,11,15 Batch: WG1264078-2 SRM Lot Number: D105-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 06-08,15 Batch: WG1264201-2 SRM Lot Number: D105-540					
Mercury, Total	113	-	60-141	-	
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1264313-2 SRM Lot Number: D105-540					
Mercury, Total	106	-	60-141	-	
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1264464-2					
Mercury, Total	94	-	80-120	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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): 18 QC Batch ID: WG1263841-3 WG1263841-4 QC Sample: L1931271-01 Client ID: MS Sample												
Aluminum, Total	0.746	2	3.00	113		3.00	113		75-125	0		20
Antimony, Total	ND	0.5	0.4329	86		0.4817	96		75-125	11		20
Arsenic, Total	0.00124	0.12	0.1272	105		0.1352	112		75-125	6		20
Barium, Total	0.1525	2	2.309	108		2.317	108		75-125	0		20
Beryllium, Total	ND	0.05	0.05654	113		0.05748	115		75-125	2		20
Cadmium, Total	ND	0.051	0.05689	112		0.05856	115		75-125	3		20
Calcium, Total	159.	10	172	130	Q	172	130	Q	75-125	0		20
Chromium, Total	0.00274	0.2	0.2182	108		0.2152	106		75-125	1		20
Cobalt, Total	0.00145	0.5	0.5368	107		0.5444	108		75-125	1		20
Copper, Total	0.00365	0.25	0.2656	105		0.2648	104		75-125	0		20
Iron, Total	4.81	1	6.28	147	Q	6.23	142	Q	75-125	1		20
Lead, Total	0.00321	0.51	0.5606	109		0.5952	116		75-125	6		20
Magnesium, Total	50.2	10	63.1	129	Q	63.4	132	Q	75-125	0		20
Manganese, Total	0.6958	0.5	1.226	106		1.239	109		75-125	1		20
Nickel, Total	0.00283	0.5	0.5472	109		0.5600	111		75-125	2		20
Potassium, Total	3.88	10	14.5	106		14.6	107		75-125	1		20
Selenium, Total	ND	0.12	0.124	103		0.132	110		75-125	6		20
Silver, Total	ND	0.05	0.05303	106		0.05455	109		75-125	3		20
Sodium, Total	75.0	10	85.1	101		86.0	110		75-125	1		20
Thallium, Total	ND	0.12	0.1315	110		0.1400	117		75-125	6		20
Vanadium, Total	0.00180J	0.5	0.5492	110		0.5450	109		75-125	1		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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): 18 QC Batch ID: WG1263841-3 WG1263841-4 QC Sample: L1931271-01 Client ID: MS Sample									
Zinc, Total	0.01186	0.5	0.5481	107	0.5644	110	75-125	3	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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): 06-08,11,15 QC Batch ID: WG1264078-3 WG1264078-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12											
Aluminum, Total	2670	171	3140	274	Q	2980	188	Q	75-125	5	20
Antimony, Total	0.358J	42.8	38.8	91		37.6	91		75-125	3	20
Arsenic, Total	2.14	10.3	12.8	104		11.8	98		75-125	8	20
Barium, Total	10.9	171	168	92		165	93		75-125	2	20
Beryllium, Total	0.192J	4.28	4.23	99		4.10	99		75-125	3	20
Cadmium, Total	0.174J	4.37	4.25	97		4.06	96		75-125	5	20
Calcium, Total	12300	856	12100	0	Q	14800	303	Q	75-125	20	20
Chromium, Total	3.03	17.1	18.3	89		17.7	89		75-125	3	20
Cobalt, Total	2.92	42.8	41.2	89		39.3	88		75-125	5	20
Copper, Total	8.54	21.4	28.6	94		27.8	93		75-125	3	20
Iron, Total	8560	85.6	9440	1030	Q	8760	242	Q	75-125	7	20
Lead, Total	3.46J	43.7	44.6	102		42.4	101		75-125	5	20
Magnesium, Total	1470	856	2270	93		2290	99		75-125	1	20
Manganese, Total	219	42.8	256	86		254	85		75-125	1	20
Nickel, Total	6.77	42.8	44.8	89		42.7	87		75-125	5	20
Potassium, Total	243	856	1060	95		1040	96		75-125	2	20
Selenium, Total	0.418J	10.3	10.2	99		10.0	101		75-125	2	20
Silver, Total	ND	25.7	23.9	93		23.4	94		75-125	2	20
Sodium, Total	57.0J	856	912	106		895	108		75-125	2	20
Thallium, Total	ND	10.3	9.20	90		8.86	89		75-125	4	20
Vanadium, Total	8.74	42.8	49.1	94		47.6	94		75-125	3	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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): 06-08,11,15 QC Batch ID: WG1264078-3 WG1264078-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12									
Zinc, Total	19.2	42.8	59.3	94	56.7	91	75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 06-08,15 QC Batch ID: WG1264201-3 WG1264201-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12									
Mercury, Total	ND	0.14	0.131	94	0.132	95	80-120	1	20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1264313-3 QC Sample: L1932895-04 Client ID: MS Sample									
Mercury, Total	ND	0.159	0.174	110	-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1264464-3 QC Sample: L1930587-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00478	96	-	-	75-125	-	20

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1932200
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1264313-4 QC Sample: L1932895-04 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1264464-4 QC Sample: L1930587-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-01**Client ID:** RIGP1_0-2**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 10:45**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

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	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-02

Client ID: RIGP1_2-4

Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:50

Date Received: 07/19/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-03**Client ID:** RIGP1_4-6**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 10:55**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-04**Client ID:** RIGP1_6-8**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 11:00**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-05**Client ID:** RIGP1_8-10**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 11:05**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-06

Client ID: RIGP2_6-8

Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30

Date Received: 07/19/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	07/22/19 10:21	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:23	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.855	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-07

Client ID: RIGP2_8-12

Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45

Date Received: 07/19/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	07/22/19 14:15	07/22/19 16:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.876	0.175	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-08
Client ID: FD01_190719
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	07/22/19 10:21	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:27	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.855	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19**SAMPLE RESULTS****Lab ID:** L1932200-09**Client ID:** RIGP3_6-8**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 13:40**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-10
Client ID: RIGP3_8-10
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-11
Client ID: RIGP4_2-4
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:28	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.854	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-15
Client ID: RIGP5_0-2
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:29	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.834	0.167	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

SAMPLE RESULTS

Lab ID: L1932200-18

Date Collected: 07/19/19 11:40

Client ID: EB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/21/19 05:05	07/22/19 12:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/19 05:30	07/20/19 06:42	1,7196A	MA



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 07/31/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1262349-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/19 05:30	07/20/19 06:23	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1262597-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/21/19 05:05	07/22/19 11:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-08,11,15 Batch: WG1262785-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	07/22/19 14:15	07/22/19 16:09	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-08,11,15 Batch: WG1262900-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 07/31/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1262349-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1262597-2 WG1262597-3								
Cyanide, Total	102		104		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 Batch: WG1262785-2 WG1262785-3								
Cyanide, Total	42	Q	63	Q	80-120	34		35
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 Batch: WG1262900-2								
Chromium, Hexavalent	89		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262349-4 QC Sample: L1932200-18 Client ID: EB01_190719												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262597-4 WG1262597-5 QC Sample: L1931724-01 Client ID: MS Sample												
Cyanide, Total	1.95	0.2	2.03	40	Q	1.71	0	Q	80-120	17		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262785-4 WG1262785-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Cyanide, Total	ND	10	10	95		10	97		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262900-4 WG1262900-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Chromium, Hexavalent	ND	991	997	101		1180	103		75-125	17		20

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1932200
Report Date: 07/31/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262349-3 QC Sample: L1932200-18 Client ID: EB01_190719						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07,09-11,15 QC Batch ID: WG1262401-1 QC Sample: L1932200-07 Client ID: RIGP2_8-12						
Solids, Total	91.3	91.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06,08 QC Batch ID: WG1262794-1 QC Sample: L1930257-01 Client ID: DUP Sample						
Solids, Total	76.6	77.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262900-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-01A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-01B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-01C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-01D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-02A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-02B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-02C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-02D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-03A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-03B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-03C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-03D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-04A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-04B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-04C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-04D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-05A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-05B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-05C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-05D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 07311917:16
Lab Number: L1932200
Report Date: 07/31/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-06A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-06B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-06C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-06D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-06E	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-06F	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-06G	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07A1	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07A2	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07B1	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07B2	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C1	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C2	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07D1	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07D2	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 07311917:16
Lab Number: L1932200
Report Date: 07/31/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-07E1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-07E2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-07F	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07F1	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07F2	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G1	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G2	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07H	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07H1	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07H2	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-08A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-08B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-08C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-08D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-08E	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-08F	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-08G	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)

*Values in parentheses indicate holding time in days

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-09A	Vial MeOH preserved	D	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-09B	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-09C	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-09D	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-09E	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14)
L1932200-10A	Vial MeOH preserved	D	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-10B	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-10C	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-10D	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-10E	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14)
L1932200-11A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-11B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.0	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)
L1932200-11C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-11D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-12A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-12B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-12C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-12D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-13A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-13B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-13C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-13D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-14A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-14B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-14C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No:07311917:16
Lab Number: L1932200
Report Date: 07/31/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-14D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-15A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-15B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.0	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)
L1932200-15C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-15D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-16A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-16B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-16C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-16D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-17A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-17B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-17C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-17D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-18A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18C	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18D	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-18E	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-18F	Plastic 250ml unpreserved	B	7	7	2.4	Y	Absent		HEXCR-7196(1)
L1932200-18G	Plastic 250ml NaOH preserved	B	>12	>12	2.4	Y	Absent		TCN-9010(14)
L1932200-18H	Plastic 250ml HNO3 preserved	B	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 07311917:16
Lab Number: L1932200
Report Date: 07/31/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-18I	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(7)
L1932200-18J	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(7)
L1932200-18K	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1932200-18L	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1932200-18M	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1932200-18N	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1932200-18O	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1932200-18P	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1932200-19A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-19B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-19C	Plastic 250ml unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-20A	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 07/31/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

- 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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 07/31/19

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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **13**

Published Date: 7/30/2019 3:17:52 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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,

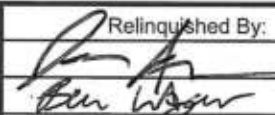
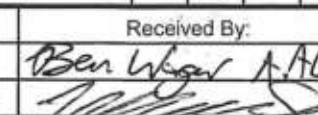
3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd in Lab 7/20/19		ALPHA Job # L1932200													
		Project Information Project Name: <u>Hamilton Hill II TAP Site</u> Project Location: <u>16.6334 Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #															
Client Information Client: <u>C.T. Mole Associates</u> Address: <u>50 Century Ave. Dr</u> <u>Latham NY 12110</u> Phone: <u>518 786 7400</u> Fax: Email: <u>A.Smith@CTMole.com</u>		Project Manager: <u>Aimee Smith</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:															
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS VOCs + TIC TCL SVOC + TIC TCL Pest. TCL PCB. TAL Metals. Hg, Hex Chl, Cyanide 21 PFAS 14 Dioxane ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)															
Please specify Metals or TAL.						Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)															
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials												Total Bottles	
				Date Time																	
32200-01		RIGP1-0-2		7/19/19 1045		Soil		DA		X											4
-02		RIGP1-2-4		1050				DA		X											4
-03		RIGP1-4-6		1055				DA		X											4
-04		RIGP1-6-8		1100				DA		X											4
-05		RIGP1-8-10		1105				DA		X											4
-06		RIGP2-6-8		1230				DA		X		X		X		X		X			6
-07		RIGP2-8-12		1245				DA		X		X		X		X		X			21
-08		FD01-190719		-				DA		X		X		X		X		X			6
-09		RIGP3-6-8		1340				DA		X		X								5	
-10		RIGP3-8-10		1350				DA		X		X								5	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A A A A A P A F A A A A A A A		Relinquished By: 		Date/Time 7/19/19 1745 7/19/19 1800		Received By: 		Date/Time 7/19/19 1745 7/20/19 0910		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 2		Date Rec'd in Lab 7/20/19		ALPHA Job # L1932200							
Client Information Client: C.T. McE Associates Address: 50 Century Hill Rd Latham, NY 12110 Phone: 518 786 7400 Fax: 518 786 7400 Email: A.Smith@ctmde.com		Project Information Project Name: Hamilton Hill #1 TA1 site Project Location: Schenectady, NY Project # 16.6334 (Use Project name as Project #) ☐ Project Manager: Aimee Smith ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days: These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: Please specify Metals or TAL.		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Billing Information ☐ Same as Client Info PO # Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		ANALYSIS TCL Loc. TIC. TCL Sub. TIC. TCL Pest. TCL PCB. TAL Metals. Hg, Hexachlor, Cyanide. 21 PFAS. 14 Dioxane.		Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)		Total Bottles	
32200-11		RIGP4-2-4		7/19/19 1440		Soil		DA		X		X		4	
-12		RIGP4-1-6		1445		DA		DA		X		X		4	
-13		RIGP4-6-8		1450		DA		DA		X		X		4	
-14		RIGP4-8-10		1535		DA		DA		X		X		4	
-15		RIGP5-0-2		1525		DA		DA		X		X		4	
-16		RIGP5-2-4		1530		DA		DA		X		X		4	
-17		RIGP5-4-6		1535		DA		DA		X		X		4	
-18		EBO1-120719		1140		Blank water		DA		X		X		16	
-19		LTBO1-120719		-		DA		DA		X		X		1	
-20		FTBO1-120719		1630		DA		DA		X		X		1	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A A A A/P P A P/B A A A A/E A/P O A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)					
Relinquished By:		Date/Time		Received By:		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	
Ben Wagner		7/19/19 1745		Ben Wagner AAL		7/19/19 1745		7/20/19 00:20		7/20/19 00:20		7/20/19 00:20		7/20/19 00:20	



ANALYTICAL REPORT

Lab Number:	L1932200
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	HAMILTON HILL II PA1 SITE
Project Number:	16.6334
Report Date:	08/02/19

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), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932200-01	RIGP1_0-2	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:45	07/19/19
L1932200-02	RIGP1_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:50	07/19/19
L1932200-03	RIGP1_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 10:55	07/19/19
L1932200-04	RIGP1_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 11:00	07/19/19
L1932200-05	RIGP1_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 11:05	07/19/19
L1932200-06	RIGP2_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 12:30	07/19/19
L1932200-07	RIGP2_8-12	SOIL	16.6334 SCHENECTADY, NY	07/19/19 12:45	07/19/19
L1932200-08	FD01_190719	SOIL	16.6334 SCHENECTADY, NY	07/19/19 00:00	07/19/19
L1932200-09	RIGP3_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 13:40	07/19/19
L1932200-10	RIGP3_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 13:50	07/19/19
L1932200-11	RIGP4_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:40	07/19/19
L1932200-12	RIGP4_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:45	07/19/19
L1932200-13	RIGP4_6-8	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:50	07/19/19
L1932200-14	RIGP4_8-10	SOIL	16.6334 SCHENECTADY, NY	07/19/19 14:55	07/19/19
L1932200-15	RIGP5_0-2	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:25	07/19/19
L1932200-16	RIGP5_2-4	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:30	07/19/19
L1932200-17	RIGP5_4-6	SOIL	16.6334 SCHENECTADY, NY	07/19/19 15:35	07/19/19
L1932200-18	EB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 11:40	07/19/19
L1932200-19	LTB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 00:00	07/19/19
L1932200-20	FTB01_190719	WATER	16.6334 SCHENECTADY, NY	07/19/19 16:30	07/19/19

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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. 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 Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data 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.

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 Alpha Project Manager 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 Project Management at 800-624-9220 with any questions.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Case Narrative (continued)

Report Submission

August 02, 2019: This final report includes the results of all requested analyses.

July 31, 2019: This is a preliminary report.

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

Volatile Organics

L1932200-19: The Trip Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

The WG1264873-5 Method Blank, associated with L1932200-01 through -06, has a concentration above the reporting limit for bromomethane. Since the sample(s) were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Semivolatile Organics

L1932200-07: The surrogate recoveries are above the acceptance criteria for 2-fluorophenol (122%), phenol-d6 (123%), nitrobenzene-d5 (124%), 2-fluorobiphenyl (121%) and 2,4,6-tribromophenol (149%). Since the sample was non-detect for all target analytes, re-analysis was not required.

Perfluorinated Alkyl Acids by Isotope Dilution

L1932200-06: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

The WG1266912-2/-3 LCS/LCSD RPD, associated with L1932200-06 through -08, are above the acceptance criteria for perfluorooctanesulfonamide (fosa) (31%).

WG1267421-4: The continuing calibration standard had the response for Perfluorooctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Case Narrative (continued)

was within acceptance criteria; therefore, no further action was taken.

WG1267475-5: The continuing calibration standard had the response for Perfluorooctanesulfonic Acid-Branched (br-PFOS) outside of acceptance criteria. The response for Perfluorooctanesulfonic Acid (PFOS) was within acceptance criteria; therefore, no further action was taken.

WG1267475-5: The continuing calibration standard had the response for Perfluorohexanesulfonic Acid-Branched (br-PFHxS) outside of acceptance criteria. The response for Perfluorohexanesulfonic Acid (PFHxS) was within acceptance criteria; therefore, no further action was taken.

WG1267475-5: The continuing calibration standard had the response for 6:2 FTS outside the acceptance criteria for the method. This value represents less than 10% of all compounds; therefore, the calibration was accepted.

Total Metals

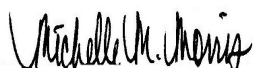
L1932200-06, -07, -08, -11 and -15: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis. The WG1264078-3/-4 MS/MSD recoveries for aluminum (274%/188%), calcium (0%/303%) and iron (1030%/242%), performed on L1932200-07, do not apply because the sample concentrations are greater than four times the spike amounts added.

Cyanide, Total

The WG1262785-2/-3 LCS/LCSD recoveries (42%/63%), associated with L1932200-06, -07, -08, -11 and -15, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/02/19

ORGANICS

VOLATILES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-01
 Client ID: RIGP1_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 03:50
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	3.0		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.60	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-01**Date Collected:** 07/19/19 10:45**Client ID:** RIGP1_0-2**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.95	1
Acetone	ND		ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.7	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Cyclohexane	ND		ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	83	36.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Tentatively Identified Compounds

Total TIC Compounds	2.12	J	ug/kg	1
Unknown Alkene	2.12	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-02
 Client ID: RIGP1_2-4
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 04:15
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.89	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.89	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.89	0.11	1
Dibromochloromethane	ND		ug/kg	0.89	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.89	0.24	1
Tetrachloroethene	3.6		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.62	1
1,2-Dichloroethane	ND		ug/kg	0.89	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.89	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.15	1
Benzene	ND		ug/kg	0.44	0.15	1
Toluene	ND		ug/kg	0.89	0.48	1
Ethylbenzene	ND		ug/kg	0.89	0.12	1
Chloromethane	ND		ug/kg	3.6	0.83	1
Bromomethane	ND		ug/kg	1.8	0.52	1
Vinyl chloride	ND		ug/kg	0.89	0.30	1
Chloroethane	ND		ug/kg	1.8	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.89	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-02**Date Collected:** 07/19/19 10:50**Client ID:** RIGP1_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.50	1
o-Xylene	ND		ug/kg	0.89	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.89	0.16	1
Styrene	ND		ug/kg	0.89	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.9	0.81	1
Acetone	4.5	J	ug/kg	8.9	4.3	1
Carbon disulfide	ND		ug/kg	8.9	4.0	1
2-Butanone	ND		ug/kg	8.9	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	8.9	1.1	1
2-Hexanone	ND		ug/kg	8.9	1.0	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.89	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.89	1
Isopropylbenzene	ND		ug/kg	0.89	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.24	1
Methyl Acetate	ND		ug/kg	3.6	0.84	1
Cyclohexane	ND		ug/kg	8.9	0.48	1
1,4-Dioxane	ND		ug/kg	71	31.	1
Freon-113	ND		ug/kg	3.6	0.62	1
Methyl cyclohexane	ND		ug/kg	3.6	0.54	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-02**Date Collected:** 07/19/19 10:50**Client ID:** RIGP1_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Tentatively Identified Compounds

Total TIC Compounds	115	J	ug/kg	1
Unknown	3.11	J	ug/kg	1
Unknown	8.01	J	ug/kg	1
Unknown Alkene	37.3	J	ug/kg	1
Unknown Naphthalene	13.8	J	ug/kg	1
Unknown	6.05	J	ug/kg	1
Unknown	1.97	J	ug/kg	1
Unknown	27.1	J	ug/kg	1
Unknown Naphthalene	5.97	J	ug/kg	1
Camphene	7.16	NJ	ug/kg	1
.beta.-Myrcene	4.42	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-03
 Client ID: RIGP1_4-6
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 04:40
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.84	0.12	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.84	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.84	0.10	1
Dibromochloromethane	ND		ug/kg	0.84	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.84	0.22	1
Tetrachloroethene	1.6		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.84	0.46	1
Ethylbenzene	ND		ug/kg	0.84	0.12	1
Chloromethane	ND		ug/kg	3.4	0.78	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.84	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-03
 Client ID: RIGP1_4-6
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 10:55
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.84	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.15	1
Styrene	ND		ug/kg	0.84	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.77	1
Acetone	5.2	J	ug/kg	8.4	4.0	1
Carbon disulfide	ND		ug/kg	8.4	3.8	1
2-Butanone	ND		ug/kg	8.4	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1.1	1
2-Hexanone	ND		ug/kg	8.4	0.99	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.84	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
Methyl Acetate	ND		ug/kg	3.4	0.80	1
Cyclohexane	ND		ug/kg	8.4	0.46	1
1,4-Dioxane	ND		ug/kg	67	30.	1
Freon-113	ND		ug/kg	3.4	0.58	1
Methyl cyclohexane	ND		ug/kg	3.4	0.51	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-04
 Client ID: RIGP1_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:06
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.1	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.83	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.83	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.83	0.10	1
Dibromochloromethane	ND		ug/kg	0.83	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	0.22	1
Tetrachloroethene	5.8		ug/kg	0.41	0.16	1
Chlorobenzene	ND		ug/kg	0.41	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.41	0.14	1
Bromodichloromethane	ND		ug/kg	0.41	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.41	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.41	0.14	1
Benzene	ND		ug/kg	0.41	0.14	1
Toluene	ND		ug/kg	0.83	0.45	1
Ethylbenzene	ND		ug/kg	0.83	0.12	1
Chloromethane	ND		ug/kg	3.3	0.77	1
Bromomethane	ND		ug/kg	1.6	0.48	1
Vinyl chloride	ND		ug/kg	0.83	0.28	1
Chloroethane	ND		ug/kg	1.6	0.37	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1
Trichloroethene	ND		ug/kg	0.41	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-04
 Client ID: RIGP1_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.17	1
p/m-Xylene	ND		ug/kg	1.6	0.46	1
o-Xylene	ND		ug/kg	0.83	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.14	1
Styrene	ND		ug/kg	0.83	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.76	1
Acetone	5.6	J	ug/kg	8.3	4.0	1
Carbon disulfide	ND		ug/kg	8.3	3.8	1
2-Butanone	ND		ug/kg	8.3	1.8	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	1.1	1
2-Hexanone	ND		ug/kg	8.3	0.98	1
Bromochloromethane	ND		ug/kg	1.6	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.83	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.83	1
Isopropylbenzene	ND		ug/kg	0.83	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
Methyl Acetate	ND		ug/kg	3.3	0.79	1
Cyclohexane	ND		ug/kg	8.3	0.45	1
1,4-Dioxane	ND		ug/kg	66	29.	1
Freon-113	ND		ug/kg	3.3	0.57	1
Methyl cyclohexane	ND		ug/kg	3.3	0.50	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-05
 Client ID: RIGP1_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:31
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	8.6		ug/kg	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	0.28	J	ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-05
 Client ID: RIGP1_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:05
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	26		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
Methyl Acetate	14		ug/kg	4.0	0.96	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	81	36.	1
Freon-113	ND		ug/kg	4.0	0.70	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Tentatively Identified Compounds

Total TIC Compounds	2.47	J	ug/kg	1
Unknown Alkene	2.47	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/26/19 05:57
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	1.5		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.73	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	ND		ug/kg	0.52	0.17	1
Toluene	ND		ug/kg	1.0	0.57	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.98	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	5.6	J	ug/kg	10	5.0	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
Methyl Acetate	ND		ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
Methyl cyclohexane	ND		ug/kg	4.2	0.63	1

Tentatively Identified Compounds

Total TIC Compounds	3.91	J	ug/kg	1
Unknown	3.91	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:01
 Analyst: NLK
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	1.7		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.15	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.87	0.48	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.82	1
Bromomethane	ND		ug/kg	1.7	0.51	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1
Trichloroethene	ND		ug/kg	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Cyclohexane	ND		ug/kg	8.7	0.48	1
1,4-Dioxane	ND		ug/kg	70	31.	1
Freon-113	ND		ug/kg	3.5	0.61	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Tentatively Identified Compounds

Total TIC Compounds	3.33	J	ug/kg	1
Cyclopentane	3.33	NJ	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	76		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	88		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:27
 Analyst: NLK
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.84	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.84	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.84	0.10	1
Dibromochloromethane	ND		ug/kg	0.84	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.84	0.22	1
Tetrachloroethene	0.64		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.4	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.4	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.84	0.46	1
Ethylbenzene	ND		ug/kg	0.84	0.12	1
Chloromethane	ND		ug/kg	3.4	0.78	1
Bromomethane	ND		ug/kg	1.7	0.49	1
Vinyl chloride	ND		ug/kg	0.84	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.12	1
Trichloroethene	ND		ug/kg	0.42	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.17	1
p/m-Xylene	ND		ug/kg	1.7	0.47	1
o-Xylene	ND		ug/kg	0.84	0.24	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.15	1
Styrene	ND		ug/kg	0.84	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.77	1
Acetone	ND		ug/kg	8.4	4.0	1
Carbon disulfide	ND		ug/kg	8.4	3.8	1
2-Butanone	ND		ug/kg	8.4	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	1.1	1
2-Hexanone	ND		ug/kg	8.4	0.99	1
Bromochloromethane	ND		ug/kg	1.7	0.17	1
1,2-Dibromoethane	ND		ug/kg	0.84	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.84	1
Isopropylbenzene	ND		ug/kg	0.84	0.09	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1
Methyl Acetate	ND		ug/kg	3.4	0.80	1
Cyclohexane	ND		ug/kg	8.4	0.46	1
1,4-Dioxane	ND		ug/kg	67	29.	1
Freon-113	ND		ug/kg	3.4	0.58	1
Methyl cyclohexane	ND		ug/kg	3.4	0.51	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	93		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 22:53
 Analyst: NLK
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.90	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.90	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.90	0.11	1
Dibromochloromethane	ND		ug/kg	0.90	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.90	0.24	1
Tetrachloroethene	0.80		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.90	0.49	1
Ethylbenzene	ND		ug/kg	0.90	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.90	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1
Trichloroethene	ND		ug/kg	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.90	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.16	1
Styrene	ND		ug/kg	0.90	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.83	1
Acetone	ND		ug/kg	9.0	4.4	1
Carbon disulfide	ND		ug/kg	9.0	4.1	1
2-Butanone	ND		ug/kg	9.0	2.0	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	1.2	1
2-Hexanone	ND		ug/kg	9.0	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.90	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Isopropylbenzene	ND		ug/kg	0.90	0.10	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
Methyl Acetate	ND		ug/kg	3.6	0.86	1
Cyclohexane	ND		ug/kg	9.0	0.49	1
1,4-Dioxane	ND		ug/kg	72	32.	1
Freon-113	ND		ug/kg	3.6	0.63	1
Methyl cyclohexane	ND		ug/kg	3.6	0.55	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 07/25/19 23:18
 Analyst: NLK
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
1,2-Dichloropropane	ND		ug/kg	0.99	0.12	1
Dibromochloromethane	ND		ug/kg	0.99	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.99	0.26	1
Tetrachloroethene	2.7		ug/kg	0.50	0.19	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	ND		ug/kg	0.50	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.56	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Styrene	ND		ug/kg	0.99	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.91	1
Acetone	5.2	J	ug/kg	9.9	4.8	1
Carbon disulfide	ND		ug/kg	9.9	4.5	1
2-Butanone	ND		ug/kg	9.9	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	1.3	1
2-Hexanone	ND		ug/kg	9.9	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.99	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Isopropylbenzene	ND		ug/kg	0.99	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
Methyl Acetate	ND		ug/kg	4.0	0.94	1
Cyclohexane	ND		ug/kg	9.9	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
Methyl cyclohexane	ND		ug/kg	4.0	0.60	1

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/23/19 11:08
 Analyst: NLK

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l 1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 07/23/19 11:33
 Analyst: NLK

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
1,3-Dichloropropene, Total	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
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
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
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	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	7.9		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
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-19

Date Collected: 07/19/19 00:00

Client ID: LTB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
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
1,3-Dichloropropene, Total	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

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
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
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	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
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	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
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/23/19 10:17
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 18-19 Batch: WG1263851-5					
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:27
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	3.7		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:27
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 21:27
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-06 Batch: WG1264873-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	95		70-130

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 21:29
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 07/25/19 21:29
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
Methyl Acetate	ND		ug/kg	4.0	0.95
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/25/19 21:29
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 07-10 Batch: WG1264901-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	91		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	99		100		63-130	1		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	100		99		75-130	1		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	110		100		67-130	10		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	99		98		70-130	1		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
Bromoform	98		100		54-136	2		20
1,1,2,2-Tetrachloroethane	90		94		67-130	4		20
Benzene	100		100		70-130	0		20
Toluene	100		99		70-130	1		20
Ethylbenzene	98		97		70-130	1		20
Chloromethane	110		100		64-130	10		20
Bromomethane	78		76		39-139	3		20
Vinyl chloride	100		100		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
Chloroethane	99		100		55-138	1		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	97		96		70-130	1		20
Methyl tert butyl ether	99		100		63-130	1		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		95		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	95		95		70-130	0		20
Dichlorodifluoromethane	130		120		36-147	8		20
Acetone	120		120		58-148	0		20
Carbon disulfide	100		100		51-130	0		20
2-Butanone	100		120		63-138	18		20
4-Methyl-2-pentanone	89		100		59-130	12		20
2-Hexanone	88		95		57-130	8		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	98		100		70-130	2		20
n-Butylbenzene	92		90		53-136	2		20
sec-Butylbenzene	95		94		70-130	1		20
tert-Butylbenzene	97		95		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 18-19 Batch: WG1263851-3 WG1263851-4								
1,2-Dibromo-3-chloropropane	75		88		41-144	16		20
Isopropylbenzene	97		95		70-130	2		20
p-Isopropyltoluene	94		93		70-130	1		20
Naphthalene	62	Q	68	Q	70-130	9		20
n-Propylbenzene	97		95		69-130	2		20
1,2,3-Trichlorobenzene	68	Q	71		70-130	4		20
1,2,4-Trichlorobenzene	74		77		70-130	4		20
1,3,5-Trimethylbenzene	97		96		64-130	1		20
1,2,4-Trimethylbenzene	96		96		70-130	0		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	97		93		70-130	4		20
1,4-Dioxane	60		92		56-162	42	Q	20
Freon-113	99		92		70-130	7		20
Methyl cyclohexane	95		93		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		100		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	98		99		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
Methylene chloride	87		87		70-130	0		30
1,1-Dichloroethane	106		105		70-130	1		30
Chloroform	96		94		70-130	2		30
Carbon tetrachloride	88		90		70-130	2		30
1,2-Dichloropropane	106		107		70-130	1		30
Dibromochloromethane	96		98		70-130	2		30
1,1,2-Trichloroethane	100		102		70-130	2		30
Tetrachloroethene	102		102		70-130	0		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	76		74		70-139	3		30
1,2-Dichloroethane	101		102		70-130	1		30
1,1,1-Trichloroethane	93		93		70-130	0		30
Bromodichloromethane	86		90		70-130	5		30
trans-1,3-Dichloropropene	92		95		70-130	3		30
cis-1,3-Dichloropropene	88		89		70-130	1		30
Bromoform	91		92		70-130	1		30
1,1,2,2-Tetrachloroethane	101		102		70-130	1		30
Benzene	94		93		70-130	1		30
Toluene	101		99		70-130	2		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	148	Q	142	Q	52-130	4		30
Bromomethane	123		120		57-147	2		30
Vinyl chloride	104		102		67-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
Chloroethane	72		72		50-151	0		30
1,1-Dichloroethene	92		91		65-135	1		30
trans-1,2-Dichloroethene	93		92		70-130	1		30
Trichloroethene	88		88		70-130	0		30
1,2-Dichlorobenzene	103		104		70-130	1		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	103		103		70-130	0		30
Methyl tert butyl ether	81		82		66-130	1		30
p/m-Xylene	99		100		70-130	1		30
o-Xylene	94		95		70-130	1		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Styrene	93		93		70-130	0		30
Dichlorodifluoromethane	89		87		30-146	2		30
Acetone	115		114		54-140	1		30
Carbon disulfide	86		84		59-130	2		30
2-Butanone	106		97		70-130	9		30
4-Methyl-2-pentanone	100		101		70-130	1		30
2-Hexanone	116		112		70-130	4		30
Bromochloromethane	96		98		70-130	2		30
1,2-Dibromoethane	102		102		70-130	0		30
1,2-Dibromo-3-chloropropane	86		90		68-130	5		30
Isopropylbenzene	105		106		70-130	1		30
1,2,3-Trichlorobenzene	103		106		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-06 Batch: WG1264873-3 WG1264873-4								
1,2,4-Trichlorobenzene	104		105		70-130	1		30
Methyl Acetate	123		119		51-146	3		30
Cyclohexane	108		108		59-142	0		30
1,4-Dioxane	80		75		65-136	6		30
Freon-113	89		90		50-139	1		30
Methyl cyclohexane	88		87		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		107		70-130
Toluene-d8	108		108		70-130
4-Bromofluorobenzene	98		97		70-130
Dibromofluoromethane	99		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
Methylene chloride	90		94		70-130	4		30
1,1-Dichloroethane	100		104		70-130	4		30
Chloroform	99		103		70-130	4		30
Carbon tetrachloride	94		96		70-130	2		30
1,2-Dichloropropane	101		109		70-130	8		30
Dibromochloromethane	104		109		70-130	5		30
1,1,2-Trichloroethane	118		123		70-130	4		30
Tetrachloroethene	113		115		70-130	2		30
Chlorobenzene	106		110		70-130	4		30
Trichlorofluoromethane	97		98		70-139	1		30
1,2-Dichloroethane	84		89		70-130	6		30
1,1,1-Trichloroethane	101		103		70-130	2		30
Bromodichloromethane	99		108		70-130	9		30
trans-1,3-Dichloropropene	112		118		70-130	5		30
cis-1,3-Dichloropropene	105		112		70-130	6		30
Bromoform	115		121		70-130	5		30
1,1,2,2-Tetrachloroethane	116		120		70-130	3		30
Benzene	103		108		70-130	5		30
Toluene	115		120		70-130	4		30
Ethylbenzene	116		119		70-130	3		30
Chloromethane	88		89		52-130	1		30
Bromomethane	109		112		57-147	3		30
Vinyl chloride	113		113		67-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
Chloroethane	121		125		50-151	3		30
1,1-Dichloroethene	111		112		65-135	1		30
trans-1,2-Dichloroethene	106		110		70-130	4		30
Trichloroethene	106		110		70-130	4		30
1,2-Dichlorobenzene	104		110		70-130	6		30
1,3-Dichlorobenzene	107		114		70-130	6		30
1,4-Dichlorobenzene	106		110		70-130	4		30
Methyl tert butyl ether	84		88		66-130	5		30
p/m-Xylene	113		117		70-130	3		30
o-Xylene	108		112		70-130	4		30
cis-1,2-Dichloroethene	104		109		70-130	5		30
Styrene	108		112		70-130	4		30
Dichlorodifluoromethane	83		82		30-146	1		30
Acetone	61		61		54-140	0		30
Carbon disulfide	94		95		59-130	1		30
2-Butanone	84		87		70-130	4		30
4-Methyl-2-pentanone	98		99		70-130	1		30
2-Hexanone	79		75		70-130	5		30
Bromochloromethane	102		105		70-130	3		30
1,2-Dibromoethane	109		116		70-130	6		30
1,2-Dibromo-3-chloropropane	94		97		68-130	3		30
Isopropylbenzene	115		119		70-130	3		30
1,2,3-Trichlorobenzene	106		110		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 Batch: WG1264901-3 WG1264901-4								
1,2,4-Trichlorobenzene	113		117		70-130	3		30
Methyl Acetate	74		75		51-146	1		30
Cyclohexane	100		98		59-142	2		30
1,4-Dioxane	81		84		65-136	4		30
Freon-113	91		90		50-139	1		30
Methyl cyclohexane	103		102		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		88		70-130
Toluene-d8	108		109		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	92		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Methylene chloride	ND	80.5	66	81		75	79		70-130	13		30
1,1-Dichloroethane	ND	80.5	79	98		90	96		70-130	13		30
Chloroform	ND	80.5	77	95		90	95		70-130	16		30
Carbon tetrachloride	ND	80.5	80	99		96	102		70-130	19		30
1,2-Dichloropropane	ND	80.5	74	92		88	94		70-130	17		30
Dibromochloromethane	ND	80.5	73	90		88	93		70-130	19		30
1,1,2-Trichloroethane	ND	80.5	78	96		92	97		70-130	17		30
Tetrachloroethene	1.7	80.5	67	81		100	107		70-130	43	Q	30
Chlorobenzene	ND	80.5	59	73		87	92		70-130	39	Q	30
Trichlorofluoromethane	ND	80.5	93	115		100	106		70-139	8		30
1,2-Dichloroethane	ND	80.5	64	80		76	80		70-130	17		30
1,1,1-Trichloroethane	ND	80.5	85	105		99	105		70-130	16		30
Bromodichloromethane	ND	80.5	75	94		89	94		70-130	17		30
trans-1,3-Dichloropropene	ND	80.5	74	92		94	99		70-130	24		30
cis-1,3-Dichloropropene	ND	80.5	72	90		91	96		70-130	23		30
Bromoform	ND	80.5	75	93		90	95		70-130	18		30
1,1,2,2-Tetrachloroethane	ND	80.5	71	88		83	88		70-130	16		30
Benzene	ND	80.5	76	94		91	97		70-130	18		30
Toluene	ND	80.5	71	88		96	102		70-130	30		30
Ethylbenzene	ND	80.5	60	75		97	103		70-130	47	Q	30
Chloromethane	ND	80.5	77	96		84	89		52-130	9		30
Bromomethane	ND	80.5	86	107		93	98		57-147	8		30
Vinyl chloride	ND	80.5	100	125		110	113		67-130	6		30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Chloroethane	ND	80.5	100	125		110	115		50-151	8		30
1,1-Dichloroethene	ND	80.5	90	111		100	106		65-135	11		30
trans-1,2-Dichloroethene	ND	80.5	80	99		95	101		70-130	17		30
Trichloroethene	ND	80.5	74	91		95	100		70-130	25		30
1,2-Dichlorobenzene	ND	80.5	48	60	Q	78	83		70-130	47	Q	30
1,3-Dichlorobenzene	ND	80.5	45	56	Q	81	85		70-130	57	Q	30
1,4-Dichlorobenzene	ND	80.5	44	54	Q	78	83		70-130	57	Q	30
Methyl tert butyl ether	ND	80.5	62	77		71	75		66-130	13		30
p/m-Xylene	ND	161	110	69	Q	190	98		70-130	51	Q	30
o-Xylene	ND	161	120	71		180	93		70-130	42	Q	30
cis-1,2-Dichloroethene	ND	80.5	78	97		92	98		70-130	16		30
Styrene	ND	161	110	71		170	92		70-130	42	Q	30
Dichlorodifluoromethane	ND	80.5	80	100		83	88		30-146	3		30
Acetone	ND	80.5	48	59		55	58		54-140	15		30
Carbon disulfide	ND	80.5	71	88		84	89		59-130	16		30
2-Butanone	ND	80.5	52	65	Q	61	65	Q	70-130	16		30
4-Methyl-2-pentanone	ND	80.5	69	86		77	81		70-130	11		30
2-Hexanone	ND	80.5	56	69	Q	65	69	Q	70-130	16		30
Bromochloromethane	ND	80.5	73	90		85	90		70-130	15		30
1,2-Dibromoethane	ND	80.5	71	88		86	91		70-130	19		30
1,2-Dibromo-3-chloropropane	ND	80.5	58	72		68	72		68-130	16		30
Isopropylbenzene	ND	80.5	52	65	Q	94	100		70-130	57	Q	30
1,2,3-Trichlorobenzene	ND	80.5	41	51	Q	72	76		70-130	55	Q	30

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 07-10 QC Batch ID: WG1264901-6 WG1264901-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
1,2,4-Trichlorobenzene	ND	80.5	40	50	Q	76	81		70-130	62	Q	30
Methyl Acetate	ND	80.5	67	83		66	70		51-146	2		30
Cyclohexane	ND	80.5	80	99		95	100		59-142	17		30
1,4-Dioxane	ND	4030	4100	103		3600	77		65-136	13		30
Freon-113	ND	80.5	78	96		83	88		50-139	7		30
Methyl cyclohexane	ND	80.5	76	94		93	98		70-130	21		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	94		97		70-130
Toluene-d8	108		107		70-130

SEMIVOLATILES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 01:23
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:33

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	250	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	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	230	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-06**Date Collected:** 07/19/19 12:30**Client ID:** RIGP2_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Tentatively Identified Compounds

Total TIC Compounds	793	J	ug/kg	1
Unknown Amide	285	J	ug/kg	1
Unknown Amide	508	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	111		25-120
Phenol-d6	111		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	136		10-136
4-Terphenyl-d14	109		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 08/02/19 13:13
 Analyst: JW
 Percent Solids: 94%

Extraction Method: EPA 537(M)
 Extraction Date: 07/31/19 15:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	1.04	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.04	0.048	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.04	0.040	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.04	0.054	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.04	0.047	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.04	0.063	1
Perfluorooctanoic Acid (PFOA)	0.079	J	ug/kg	1.04	0.044	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.04	0.186	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.04	0.142	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.04	0.078	1
Perfluorooctanesulfonic Acid (PFOS)	0.206	J	ug/kg	1.04	0.135	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.04	0.070	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.04	0.298	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	0.239	J	ug/kg	1.04	0.209	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.04	0.049	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.04	0.159	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.04	0.102	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.145	J	ug/kg	1.04	0.088	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.04	0.073	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.04	0.212	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.04	0.056	1
PFOA/PFOS, Total	0.285	J	ug/kg	1.04	0.044	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-06**Date Collected:** 07/19/19 12:30**Client ID:** RIGP2_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	72		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	92		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	94		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	43	Q	45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	0	Q	1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	43		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	59		26-160

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 03:28
 Analyst: SZ
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	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	520	160	1
Hexachloroethane	ND		ug/kg	140	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	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	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	420	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	22.	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	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	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	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	37.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Tentatively Identified Compounds

Total TIC Compounds	968	J	ug/kg	1
Unknown Alkene	172	J	ug/kg	1
Unknown	349	J	ug/kg	1
Unknown Amide	188	J	ug/kg	1
Unknown	259	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	122	Q	25-120
Phenol-d6	123	Q	10-120
Nitrobenzene-d5	124	Q	23-120
2-Fluorobiphenyl	121	Q	30-120
2,4,6-Tribromophenol	149	Q	10-136
4-Terphenyl-d14	118		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 08/02/19 13:29
 Analyst: JW
 Percent Solids: 91%

Extraction Method: EPA 537(M)
 Extraction Date: 07/31/19 15:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.984	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.984	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.984	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.984	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.984	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.984	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	0.984	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.984	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.984	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.984	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	0.234	J	ug/kg	0.984	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.984	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.984	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.984	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.984	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.984	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.984	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.084	J	ug/kg	0.984	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.984	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.984	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.984	0.053	1
PFOA/PFOS, Total	0.234	J	ug/kg	0.984	0.041	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	94		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	91		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	98		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	93		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	73		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	73		26-160

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 00:08
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
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	250	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	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	230	47.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-08**Date Collected:** 07/19/19 00:00**Client ID:** FD01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1
1,4-Dioxane	ND		ug/kg	26	8.1	1

Tentatively Identified Compounds

Total TIC Compounds	934	J	ug/kg	1
Unknown Amide	597	J	ug/kg	1
Unknown Amide	337	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	117		25-120
Phenol-d6	116		10-120
Nitrobenzene-d5	116		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	127		10-136
4-Terphenyl-d14	111		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 122,537(M)
 Analytical Date: 08/02/19 13:46
 Analyst: JW
 Percent Solids: 94%

Extraction Method: EPA 537(M)
 Extraction Date: 07/31/19 15:07

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ug/kg	0.929	0.021	1
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	0.929	0.043	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	0.929	0.036	1
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	0.929	0.049	1
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	0.929	0.042	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	0.929	0.056	1
Perfluorooctanoic Acid (PFOA)	0.146	J	ug/kg	0.929	0.039	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	0.929	0.167	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	0.929	0.127	1
Perfluorononanoic Acid (PFNA)	ND		ug/kg	0.929	0.070	1
Perfluorooctanesulfonic Acid (PFOS)	0.385	J	ug/kg	0.929	0.121	1
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	0.929	0.062	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	0.929	0.267	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	0.929	0.187	1
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	0.929	0.044	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	0.929	0.142	1
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	0.929	0.091	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	0.929	0.079	1
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	0.929	0.065	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	0.929	0.190	1
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	0.929	0.050	1
PFOA/PFOS, Total	0.531	J	ug/kg	0.929	0.039	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	93		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	88		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	97		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	106		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	54		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	79		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	54		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		26-160

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 22:53
 Analyst: SZ
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	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	27.	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	61.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-09
 Client ID: RIGP3_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
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	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	21	J	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	74.	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	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	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	34.	1
Carbazole	ND		ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	63.	1
Benzaldehyde	ND		ug/kg	240	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-09**Date Collected:** 07/19/19 13:40**Client ID:** RIGP3_6-8**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	55.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	27	8.3	1

Tentatively Identified Compounds

Total TIC Compounds	278	J	ug/kg	1
Unknown Amide	278	J	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	93		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/27/19 05:59
 Analyst: SZ
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	89	J	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	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	2100		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	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	170	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	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	37.	1
Benzo(a)anthracene	850		ug/kg	100	20.	1
Benzo(a)pyrene	740		ug/kg	140	43.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	940		ug/kg	100	29.	1
Benzo(k)fluoranthene	340		ug/kg	100	28.	1
Chrysene	710		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	400		ug/kg	100	34.	1
Benzo(ghi)perylene	370		ug/kg	140	20.	1
Fluorene	130	J	ug/kg	170	17.	1
Phenanthrene	1500		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	110		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	430		ug/kg	140	24.	1
Pyrene	1500		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	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	58	J	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	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	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	34.	1
Carbazole	97	J	ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-10
 Client ID: RIGP3_8-10
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 13:50
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1
1,4-Dioxane	ND		ug/kg	26	8.0	1

Tentatively Identified Compounds

Total TIC Compounds	1900	J	ug/kg		1
Unknown Ketone	306	J	ug/kg		1
Unknown PAH	180	J	ug/kg		1
Unknown Amide	367	J	ug/kg		1
Unknown PAH	228	J	ug/kg		1
Unknown PAH	302	J	ug/kg		1
Unknown PAH	513	J	ug/kg		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	109		25-120
Phenol-d6	110		10-120
Nitrobenzene-d5	113		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	145	Q	10-136
4-Terphenyl-d14	107		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-11
 Client ID: RIGP4_2-4
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 23:18
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-11
 Client ID: RIGP4_2-4
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 14:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	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	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	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	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	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	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	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	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	230	48.	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-11**Date Collected:** 07/19/19 14:40**Client ID:** RIGP4_2-4**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Tentatively Identified Compounds

Total TIC Compounds	862	J	ug/kg			1
Unknown	862	J	ug/kg			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	113		25-120
Phenol-d6	112		10-120
Nitrobenzene-d5	112		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	128		10-136
4-Terphenyl-d14	114		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-15
 Client ID: RIGP5_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 23:43
 Analyst: SZ
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 03:34

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	150	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	29.	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	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	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	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-15
 Client ID: RIGP5_0-2
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	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	200	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	32.	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	150	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	82.	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

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-15**Date Collected:** 07/19/19 15:25**Client ID:** RIGP5_0-2**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	100		25-120
Phenol-d6	100		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	116		10-136
4-Terphenyl-d14	108		18-120

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 07/26/19 01:38
 Analyst: SZ

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-18**Date Collected:** 07/19/19 11:40**Client ID:** EB01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Carbazole	ND		ug/l	2.0	0.49	1
Atrazine	ND		ug/l	10	0.76	1
Benzaldehyde	ND		ug/l	5.0	0.53	1
Caprolactam	ND		ug/l	10	3.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84	1

Tentatively Identified Compounds

Total TIC Compounds	12.7	J	ug/l	1
Aldol Condensates	12.7	J	ug/l	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	54		10-120
4-Terphenyl-d14	94		41-149

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/25/19 18:31
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.02	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.03	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.02	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-18**Date Collected:** 07/19/19 11:40**Client ID:** EB01_190719**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	108		41-149

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 07/27/19 02:02
 Analyst: MA

Extraction Method: EPA 3510C
 Extraction Date: 07/26/19 18:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1
Surrogate	% Recovery		Qualifier	Acceptance Criteria		
1,4-Dioxane-d8	40			15-110		

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 08/01/19 16:43
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 07/31/19 09:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.79	0.366	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.79	0.355	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.79	0.213	1
Perfluorohexanoic Acid (PFHxA)	0.351	J	ng/l	1.79	0.294	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.79	0.202	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.79	0.337	1
Perfluorooctanoic Acid (PFOA)	0.251	J	ng/l	1.79	0.211	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.79	1.19	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.79	0.616	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.79	0.280	1
Perfluorooctanesulfonic Acid (PFOS)	0.516	J	ng/l	1.79	0.452	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.79	0.272	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.79	1.09	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.79	0.581	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.79	0.233	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.79	0.878	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.79	0.520	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.79	0.720	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.79	0.333	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.79	0.293	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.79	0.222	1
PFOA/PFOS, Total	0.767	J	ng/l	1.79	0.211	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	117		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	116		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	100		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	105		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	126		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	119		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	128		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	106		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	99		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	24		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	76		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	106		33-143

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 08/01/19 16:59
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 07/31/19 09:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.84	0.376	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.84	0.365	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.84	0.220	1
Perfluorohexanoic Acid (PFHxA)	0.380	J	ng/l	1.84	0.302	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.84	0.208	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.84	0.347	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.84	0.218	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.84	1.23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.84	0.635	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.84	0.288	1
Perfluorooctanesulfonic Acid (PFOS)	0.594	J	ng/l	1.84	0.465	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.84	0.280	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.84	1.12	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.598	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.240	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.904	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.535	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.742	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.302	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.229	1
PFOA/PFOS, Total	0.594	J	ng/l	1.84	0.218	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-19
 Client ID: LTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	112		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	98		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	126		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	83		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	67		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	87		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	102		33-143

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-20
 Client ID: FTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 122,537(M)
 Analytical Date: 08/01/19 17:16
 Analyst: AJ

Extraction Method: EPA 537
 Extraction Date: 07/31/19 09:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.99	0.406	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.99	0.394	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.99	0.237	1
Perfluorohexanoic Acid (PFHxA)	0.354	J	ng/l	1.99	0.327	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.99	0.224	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.99	0.374	1
Perfluorooctanoic Acid (PFOA)	0.299	J	ng/l	1.99	0.235	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.99	1.33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.99	0.685	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.99	0.311	1
Perfluorooctanesulfonic Acid (PFOS)	0.689	J	ng/l	1.99	0.502	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.99	0.303	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.99	1.21	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.99	0.645	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.99	0.259	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.99	0.976	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.99	0.578	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.99	0.801	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.99	0.370	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.99	0.326	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.99	0.247	1
PFOA/PFOS, Total	0.988	J	ng/l	1.99	0.235	1

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-20
 Client ID: FTB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 16:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	112		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	131		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	123		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	110		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	93		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	27		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	90		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	103		33-143

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/19 23:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/19 23:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Carbazole	ND		ug/l	2.0	0.49
Atrazine	ND		ug/l	10	0.76
Benzaldehyde	ND		ug/l	5.0	0.53
Caprolactam	ND		ug/l	10	3.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.84

Tentatively Identified Compounds

Total TIC Compounds	11.3	J	ug/l
Aldol Condensates	11.3	J	ug/l

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/25/19 23:56
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 18 Batch: WG1264142-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	91		41-149

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/25/19 15:45
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1264144-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 07/25/19 15:45
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 07/25/19 00:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 18 Batch: WG1264144-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	122	Q	10-120
4-Terphenyl-d14	110		41-149

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
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	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
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	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
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	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/26/19 21:38
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/26/19 03:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06-11,15 Batch: WG1264778-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	94		18-120

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/27/19 00:49
Analyst: MA

Extraction Method: EPA 3510C
Extraction Date: 07/26/19 18:55

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 18 Batch: WG1265196-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	36		15-110

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 08/01/19 13:39
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/31/19 09:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 18-20 Batch: WG1266669-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.424	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	0.932	J	ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	0.504	J	ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	1.44	J	ng/l	2.00	0.236

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 122,537(M)
Analytical Date: 08/01/19 13:39
Analyst: AJ

Extraction Method: EPA 537
Extraction Date: 07/31/19 09:45

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 18-20 Batch: WG1266669-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	122		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	121		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	118		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	115		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	127		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	130		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	123		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	146		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	139		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	133		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	113		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	127		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	106		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	117		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	122		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	112		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	115		33-143

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 08/02/19 10:44
Analyst: JW

Extraction Method: EPA 537(M)
Extraction Date: 07/31/19 15:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06-08 Batch: WG1266912-1					
Perfluorobutanoic Acid (PFBA)	0.093	J	ug/kg	1.00	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ug/kg	1.00	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ug/kg	1.00	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ug/kg	1.00	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ug/kg	1.00	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ug/kg	1.00	0.061
Perfluorooctanoic Acid (PFOA)	ND		ug/kg	1.00	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ug/kg	1.00	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ug/kg	1.00	0.136
Perfluorononanoic Acid (PFNA)	ND		ug/kg	1.00	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ug/kg	1.00	0.130
Perfluorodecanoic Acid (PFDA)	ND		ug/kg	1.00	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ug/kg	1.00	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ug/kg	1.00	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ug/kg	1.00	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ug/kg	1.00	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ug/kg	1.00	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ug/kg	1.00	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ug/kg	1.00	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ug/kg	1.00	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ug/kg	1.00	0.054
PFOA/PFOS, Total	ND		ug/kg	1.00	0.042

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 122,537(M)
Analytical Date: 08/02/19 10:44
Analyst: JW

Extraction Method: EPA 537(M)
Extraction Date: 07/31/19 15:07

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06-08 Batch: WG1266912-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	84		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	102		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	107		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	1		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	71		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79		26-160

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3								
Bis(2-chloroethyl)ether	82		83		40-140	1		30
3,3'-Dichlorobenzidine	68		67		40-140	1		30
2,4-Dinitrotoluene	78		75		48-143	4		30
2,6-Dinitrotoluene	82		82		40-140	0		30
4-Chlorophenyl phenyl ether	76		74		40-140	3		30
4-Bromophenyl phenyl ether	77		74		40-140	4		30
Bis(2-chloroisopropyl)ether	121		120		40-140	1		30
Bis(2-chloroethoxy)methane	95		91		40-140	4		30
Hexachlorocyclopentadiene	68		64		40-140	6		30
Isophorone	98		96		40-140	2		30
Nitrobenzene	100		97		40-140	3		30
NDPA/DPA	82		79		40-140	4		30
n-Nitrosodi-n-propylamine	105		103		29-132	2		30
Bis(2-ethylhexyl)phthalate	92		93		40-140	1		30
Butyl benzyl phthalate	94		93		40-140	1		30
Di-n-butylphthalate	94		94		40-140	0		30
Di-n-octylphthalate	98		104		40-140	6		30
Diethyl phthalate	93		90		40-140	3		30
Dimethyl phthalate	85		85		40-140	0		30
Biphenyl	71		69		40-140	3		30
4-Chloroaniline	76		72		40-140	5		30
2-Nitroaniline	83		84		52-143	1		30
3-Nitroaniline	66		62		25-145	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3								
4-Nitroaniline	80		77		51-143	4		30
Dibenzofuran	77		74		40-140	4		30
1,2,4,5-Tetrachlorobenzene	67		64		2-134	5		30
Acetophenone	79		77		39-129	3		30
2,4,6-Trichlorophenol	76		74		30-130	3		30
p-Chloro-m-cresol	93		90		23-97	3		30
2-Chlorophenol	83		81		27-123	2		30
2,4-Dichlorophenol	82		78		30-130	5		30
2,4-Dimethylphenol	56		48		30-130	15		30
2-Nitrophenol	86		86		30-130	0		30
4-Nitrophenol	101	Q	95	Q	10-80	6		30
2,4-Dinitrophenol	83		84		20-130	1		30
4,6-Dinitro-o-cresol	89		88		20-164	1		30
Phenol	75		71		12-110	5		30
3-Methylphenol/4-Methylphenol	83		80		30-130	4		30
2,4,5-Trichlorophenol	83		81		30-130	2		30
Carbazole	96		94		55-144	2		30
Atrazine	125		116		40-140	7		30
Benzaldehyde	75		80		40-140	6		30
Caprolactam	58		58		10-130	0		30
2,3,4,6-Tetrachlorophenol	77		74		40-140	4		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 18 Batch: WG1264142-2 WG1264142-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	74		74		21-120
Phenol-d6	75		72		10-120
Nitrobenzene-d5	100		98		23-120
2-Fluorobiphenyl	81		79		15-120
2,4,6-Tribromophenol	67		62		10-120
4-Terphenyl-d14	87		84		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1264144-2 WG1264144-3								
Acenaphthene	76		94		40-140	21		40
2-Chloronaphthalene	73		94		40-140	25		40
Fluoranthene	92		98		40-140	6		40
Hexachlorobutadiene	48		80		40-140	50	Q	40
Naphthalene	59		88		40-140	39		40
Benzo(a)anthracene	92		102		40-140	10		40
Benzo(a)pyrene	96		108		40-140	12		40
Benzo(b)fluoranthene	92		106		40-140	14		40
Benzo(k)fluoranthene	94		103		40-140	9		40
Chrysene	87		95		40-140	9		40
Acenaphthylene	81		101		40-140	22		40
Anthracene	90		98		40-140	9		40
Benzo(ghi)perylene	91		103		40-140	12		40
Fluorene	82		95		40-140	15		40
Phenanthrene	86		94		40-140	9		40
Dibenzo(a,h)anthracene	97		103		40-140	6		40
Indeno(1,2,3-cd)pyrene	97		108		40-140	11		40
Pyrene	92		98		40-140	6		40
2-Methylnaphthalene	69		93		40-140	30		40
Pentachlorophenol	116		119		40-140	3		40
Hexachlorobenzene	85		98		40-140	14		40
Hexachloroethane	47		85		40-140	58	Q	40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 18 Batch: WG1264144-2 WG1264144-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		70		21-120
Phenol-d6	46		62		10-120
Nitrobenzene-d5	65		98		23-120
2-Fluorobiphenyl	73		92		15-120
2,4,6-Tribromophenol	106		95		10-120
4-Terphenyl-d14	103		106		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
Acenaphthene	85		92		31-137	8		50
Hexachlorobenzene	94		106		40-140	12		50
Bis(2-chloroethyl)ether	85		94		40-140	10		50
2-Chloronaphthalene	92		100		40-140	8		50
3,3'-Dichlorobenzidine	66		73		40-140	10		50
2,4-Dinitrotoluene	96		107		40-132	11		50
2,6-Dinitrotoluene	101		112		40-140	10		50
Fluoranthene	91		101		40-140	10		50
4-Chlorophenyl phenyl ether	91		99		40-140	8		50
4-Bromophenyl phenyl ether	95		105		40-140	10		50
Bis(2-chloroisopropyl)ether	74		81		40-140	9		50
Bis(2-chloroethoxy)methane	89		97		40-117	9		50
Hexachlorobutadiene	88		97		40-140	10		50
Hexachlorocyclopentadiene	89		98		40-140	10		50
Hexachloroethane	79		88		40-140	11		50
Isophorone	93		102		40-140	9		50
Naphthalene	84		91		40-140	8		50
Nitrobenzene	91		101		40-140	10		50
NDPA/DPA	91		100		36-157	9		50
n-Nitrosodi-n-propylamine	91		99		32-121	8		50
Bis(2-ethylhexyl)phthalate	82		92		40-140	11		50
Butyl benzyl phthalate	89		98		40-140	10		50
Di-n-butylphthalate	95		107		40-140	12		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
Di-n-octylphthalate	89		100		40-140	12		50
Diethyl phthalate	93		103		40-140	10		50
Dimethyl phthalate	99		109		40-140	10		50
Benzo(a)anthracene	88		97		40-140	10		50
Benzo(a)pyrene	102		110		40-140	8		50
Benzo(b)fluoranthene	93		100		40-140	7		50
Benzo(k)fluoranthene	91		100		40-140	9		50
Chrysene	82		90		40-140	9		50
Acenaphthylene	94		104		40-140	10		50
Anthracene	90		100		40-140	11		50
Benzo(ghi)perylene	90		98		40-140	9		50
Fluorene	87		96		40-140	10		50
Phenanthrene	83		93		40-140	11		50
Dibenzo(a,h)anthracene	89		97		40-140	9		50
Indeno(1,2,3-cd)pyrene	93		104		40-140	11		50
Pyrene	89		98		35-142	10		50
Biphenyl	97		105	Q	54-104	8		50
4-Chloroaniline	82		81		40-140	1		50
2-Nitroaniline	99		111		47-134	11		50
3-Nitroaniline	81		89		26-129	9		50
4-Nitroaniline	91		99		41-125	8		50
Dibenzofuran	85		93		40-140	9		50
2-Methylnaphthalene	88		96		40-140	9		50

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								
1,2,4,5-Tetrachlorobenzene	95		105		40-117	10		50
Acetophenone	100		110		14-144	10		50
2,4,6-Trichlorophenol	105		119		30-130	13		50
p-Chloro-m-cresol	96		107	Q	26-103	11		50
2-Chlorophenol	90		99		25-102	10		50
2,4-Dichlorophenol	98		109		30-130	11		50
2,4-Dimethylphenol	98		110		30-130	12		50
2-Nitrophenol	104		116		30-130	11		50
4-Nitrophenol	90		98		11-114	9		50
2,4-Dinitrophenol	107		115		4-130	7		50
4,6-Dinitro-o-cresol	102		110		10-130	8		50
Pentachlorophenol	94		106		17-109	12		50
Phenol	84		91	Q	26-90	8		50
2-Methylphenol	92		102		30-130	10		50
3-Methylphenol/4-Methylphenol	93		101		30-130	8		50
2,4,5-Trichlorophenol	104		116		30-130	11		50
Carbazole	85		95		54-128	11		50
Atrazine	121		134		40-140	10		50
Benzaldehyde	95		104		40-140	9		50
Caprolactam	100		109		15-130	9		50
2,3,4,6-Tetrachlorophenol	93		103		40-140	10		50
1,4-Dioxane	78		74		40-140	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06-11,15 Batch: WG1264778-2 WG1264778-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	94		103		25-120
Phenol-d6	94		103		10-120
Nitrobenzene-d5	95		106		23-120
2-Fluorobiphenyl	91		102		30-120
2,4,6-Tribromophenol	108		121		10-136
4-Terphenyl-d14	94		103		18-120

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 18 Batch: WG1265196-2 WG1265196-3								
1,4-Dioxane	122		119		40-140	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	36		38		15-110

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 18-20 Batch: WG1266669-2 WG1266669-3								
Perfluorobutanoic Acid (PFBA)	98		94		67-148	4		30
Perfluoropentanoic Acid (PFPeA)	100		94		63-161	6		30
Perfluorobutanesulfonic Acid (PFBS)	84		79		65-157	6		30
Perfluorohexanoic Acid (PFHxA)	98		95		69-168	3		30
Perfluoroheptanoic Acid (PFHpA)	103		95		58-159	8		30
Perfluorohexanesulfonic Acid (PFHxS)	81		74		69-177	9		30
Perfluorooctanoic Acid (PFOA)	99		91		63-159	8		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	93		92		49-187	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	103		106		61-179	3		30
Perfluorononanoic Acid (PFNA)	93		94		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	95		100		52-151	5		30
Perfluorodecanoic Acid (PFDA)	93		90		63-171	3		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	92		78		56-173	16		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	118		100		60-166	17		30
Perfluoroundecanoic Acid (PFUnA)	98		98		60-153	0		30
Perfluorodecanesulfonic Acid (PFDS)	92		105		38-156	13		30
Perfluorooctanesulfonamide (FOSA)	101		104		46-170	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	86		74		45-170	15		30
Perfluorododecanoic Acid (PFDoA)	89		83		67-153	7		30
Perfluorotridecanoic Acid (PFTrDA)	116		103		48-158	12		30
Perfluorotetradecanoic Acid (PFTA)	101		84		59-182	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 18-20 Batch: WG1266669-2 WG1266669-3

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	108		110		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	108		109		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		105		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		103		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	101		108		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		118		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		108		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	108		112		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	112		120		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		90		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		103		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	87		113		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	65		91		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		105		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	46		42		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		112		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	91		107		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	99		113		33-143

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06-08 Batch: WG1266912-2 WG1266912-3								
Perfluorobutanoic Acid (PFBA)	99		101		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	106		108		69-132	2		30
Perfluorobutanesulfonic Acid (PFBS)	101		108		72-128	7		30
Perfluorohexanoic Acid (PFHxA)	109		113		70-132	4		30
Perfluoroheptanoic Acid (PFHpA)	101		100		71-131	1		30
Perfluorohexanesulfonic Acid (PFHxS)	107		104		67-130	3		30
Perfluorooctanoic Acid (PFOA)	104		104		69-133	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	112		125		64-140	11		30
Perfluoroheptanesulfonic Acid (PFHpS)	95		108		70-132	13		30
Perfluorononanoic Acid (PFNA)	106		111		72-129	5		30
Perfluorooctanesulfonic Acid (PFOS)	87		92		68-136	6		30
Perfluorodecanoic Acid (PFDA)	109		111		69-133	2		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	100		113		65-137	12		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	111		102		63-144	8		30
Perfluoroundecanoic Acid (PFUnA)	94		94		64-136	0		30
Perfluorodecanesulfonic Acid (PFDS)	102		105		59-134	3		30
Perfluorooctanesulfonamide (FOSA)	100		73		67-137	31	Q	30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	95		111		61-139	16		30
Perfluorododecanoic Acid (PFDoA)	98		99		69-135	1		30
Perfluorotridecanoic Acid (PFTrDA)	92		95		66-139	3		30
Perfluorotetradecanoic Acid (PFTA)	112		114		69-133	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06-08 Batch: WG1266912-2 WG1266912-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		84		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	87		86		65-182
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	98		92		70-151
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		84		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	85		89		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		97		63-166
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		92		62-152
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		85		32-182
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96		97		61-154
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		94		65-151
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		90		65-150
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	115		98		25-186
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		79		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		96		64-158
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		2		1-125
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		71		42-136
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	94		92		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	80		76		26-160

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Acenaphthene	ND	1440	1400	97		1300	91		31-137	7		50
Hexachlorobenzene	ND	1440	1700	120		1500	100		40-140	13		50
Bis(2-chloroethyl)ether	ND	1440	1400	97		1300	91		40-140	7		50
2-Chloronaphthalene	ND	1440	1600	110		1500	100		40-140	6		50
3,3'-Dichlorobenzidine	ND	1440	1300	90		1200	84		40-140	8		50
2,4-Dinitrotoluene	ND	1440	1700	120		1600	110		40-132	6		50
2,6-Dinitrotoluene	ND	1440	1900	130		1600	110		40-140	17		50
Fluoranthene	ND	1440	1600	110		1500	100		40-140	6		50
4-Chlorophenyl phenyl ether	ND	1440	1600	110		1400	98		40-140	13		50
4-Bromophenyl phenyl ether	ND	1440	1700	120		1600	110		40-140	6		50
Bis(2-chloroisopropyl)ether	ND	1440	1200	83		1100	77		40-140	9		50
Bis(2-chloroethoxy)methane	ND	1440	1500	100		1400	98		40-117	7		50
Hexachlorobutadiene	ND	1440	1500	100		1400	98		40-140	7		50
Hexachlorocyclopentadiene	ND	1440	1600	110		1500	100		40-140	6		50
Hexachloroethane	ND	1440	1300	90		1200	84		40-140	8		50
Isophorone	ND	1440	1600	110		1500	100		40-140	6		50
Naphthalene	ND	1440	1400	97		1300	91		40-140	7		50
Nitrobenzene	ND	1440	1600	110		1400	98		40-140	13		50
NDPA/DPA	ND	1440	1600	110		1500	100		36-157	6		50
n-Nitrosodi-n-propylamine	ND	1440	1600	110		1400	98		32-121	13		50
Bis(2-ethylhexyl)phthalate	ND	1440	1400	97		1400	98		40-140	0		50
Butyl benzyl phthalate	ND	1440	1600	110		1500	100		40-140	6		50
Di-n-butylphthalate	ND	1440	1700	120		1600	110		40-140	6		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Di-n-octylphthalate	ND	1440	1600	110		1500	100		40-140	6		50
Diethyl phthalate	ND	1440	1600	110		1500	100		40-140	6		50
Dimethyl phthalate	ND	1440	1800	120		1600	110		40-140	12		50
Benzo(a)anthracene	ND	1440	1500	100		1400	98		40-140	7		50
Benzo(a)pyrene	ND	1440	1800	120		1600	110		40-140	12		50
Benzo(b)fluoranthene	ND	1440	1600	110		1500	100		40-140	6		50
Benzo(k)fluoranthene	ND	1440	1600	110		1400	98		40-140	13		50
Chrysene	ND	1440	1400	97		1300	91		40-140	7		50
Acenaphthylene	ND	1440	1700	120		1500	100		40-140	13		50
Anthracene	ND	1440	1600	110		1400	98		40-140	13		50
Benzo(ghi)perylene	ND	1440	1500	100		1400	98		40-140	7		50
Fluorene	ND	1440	1500	100		1400	98		40-140	7		50
Phenanthrene	ND	1440	1500	100		1300	91		40-140	14		50
Dibenzo(a,h)anthracene	ND	1440	1500	100		1400	98		40-140	7		50
Indeno(1,2,3-cd)pyrene	ND	1440	1600	110		1500	100		40-140	6		50
Pyrene	ND	1440	1600	110		1400	98		35-142	13		50
Biphenyl	ND	1440	1700	120	Q	1500	100		54-104	13		50
4-Chloroaniline	ND	1440	1200	83		1100	77		40-140	9		50
2-Nitroaniline	ND	1440	1900	130		1600	110		47-134	17		50
3-Nitroaniline	ND	1440	1600	110		1400	98		26-129	13		50
4-Nitroaniline	ND	1440	1700	120		1500	100		41-125	13		50
Dibenzofuran	ND	1440	1500	100		1400	98		40-140	7		50
2-Methylnaphthalene	ND	1440	1500	100		1400	98		40-140	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
1,2,4,5-Tetrachlorobenzene	ND	1440	1700	120	Q	1500	100		40-117	13		50
Acetophenone	ND	1440	1700	120		1600	110		14-144	6		50
2,4,6-Trichlorophenol	ND	1440	2100	150	Q	1800	130		30-130	15		50
p-Chloro-m-cresol	ND	1440	1800	120	Q	1600	110	Q	26-103	12		50
2-Chlorophenol	ND	1440	1600	110	Q	1400	98		25-102	13		50
2,4-Dichlorophenol	ND	1440	1800	120		1600	110		30-130	12		50
2,4-Dimethylphenol	ND	1440	1700	120		1500	100		30-130	13		50
2-Nitrophenol	ND	1440	1900	130		1700	120		30-130	11		50
4-Nitrophenol	ND	1440	1600	110		1500	100		11-114	6		50
2,4-Dinitrophenol	ND	1440	720J	50		640J	45		4-130	12		50
4,6-Dinitro-o-cresol	ND	1440	1400	97		1300	91		10-130	7		50
Pentachlorophenol	ND	1440	2000	140	Q	1800	130	Q	17-109	11		50
Phenol	ND	1440	1400	97	Q	1300	91	Q	26-90	7		50
2-Methylphenol	ND	1440	1600	110		1400	98		30-130.	13		50
3-Methylphenol/4-Methylphenol	ND	1440	1600	110		1500	100		30-130	6		50
2,4,5-Trichlorophenol	ND	1440	2000	140	Q	1800	130		30-130	11		50
Carbazole	ND	1440	1500	100		1400	98		54-128	7		50
Atrazine	ND	1440	2200	150	Q	2000	140		40-140	10		50
Benzaldehyde	ND	1440	1700	120		1600	110		40-140	6		50
Caprolactam	ND	1440	1700	120		1500	100		15-130	13		50
2,3,4,6-Tetrachlorophenol	ND	1440	1800	120		1600	110		40-140	12		50
1,4-Dioxane	ND	1440	1000	69		1000	70		40-140	0		50

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

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): 06-11,15 QC Batch ID: WG1264778-4 WG1264778-5 QC Sample: L1932200-07
 Client ID: RIGP2_8-12

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	143	Q	127		10-136
2-Fluorobiphenyl	111		98		30-120
2-Fluorophenol	106		97		25-120
4-Terphenyl-d14	102		100		18-120
Nitrobenzene-d5	111		104		23-120
Phenol-d6	106		97		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06-08 QC Batch ID: WG1266912-4 WG1266912-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Perfluorobutanoic Acid (PFBA)	ND	4.94	4.93	100		4.85	100		71-135	2		30
Perfluoropentanoic Acid (PFPeA)	ND	4.94	5.32	108		5.18	107		69-132	3		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.94	4.96	100		4.92	101		72-128	1		30
Perfluorohexanoic Acid (PFHxA)	ND	4.94	5.54	112		5.37	111		70-132	3		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.94	4.99	101		4.83	99		71-131	3		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.94	5.34	108		5.14	106		67-130	4		30
Perfluorooctanoic Acid (PFOA)	ND	4.94	5.20	105		5.25	108		69-133	1		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.94	5.36	108		5.10	105		64-140	5		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.94	5.01	101		5.25	108		70-132	5		30
Perfluorononanoic Acid (PFNA)	ND	4.94	5.35	108		5.23	108		72-129	2		30
Perfluorooctanesulfonic Acid (PFOS)	0.234J	4.94	4.97	101		4.53	93		68-136	9		30
Perfluorodecanoic Acid (PFDA)	ND	4.94	5.40	109		5.31	109		69-133	2		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.94	4.68	95		4.94	102		65-137	5		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.94	5.60	113		5.22	107		63-144	7		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.94	4.59	93		4.55	94		64-136	1		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.94	5.67	115		5.27	108		59-134	7		30
Perfluorooctanesulfonamide (FOSA)	ND	4.94	4.94	100		4.59	95		67-137	7		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	0.084J	4.94	4.94	100		5.41	111		61-139	9		30
Perfluorododecanoic Acid (PFDoA)	ND	4.94	4.97	101		4.78	98		69-135	4		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.94	4.67	94		4.52	93		66-139	3		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.94	5.68	115		5.57	115		69-133	2		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06-08 QC Batch ID: WG1266912-4 WG1266912-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	119		111		25-186
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		105		32-182
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		60		42-136
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	59		63		45-137
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		100		64-158
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	87		95		65-150
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84		93		61-147
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		96		62-149
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		101		63-166
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		96		56-148
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		82		26-160
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		97		60-153
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90		98		65-182
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	54		10		1-125
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	91		98		65-151
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89		97		62-152
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		103		61-154
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		100		70-151

PCBS

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 04:19
 Analyst: KB
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.8	3.01	1	A
Aroclor 1221	ND		ug/kg	33.8	3.39	1	A
Aroclor 1232	ND		ug/kg	33.8	7.18	1	A
Aroclor 1242	17.6	J	ug/kg	33.8	4.56	1	A
Aroclor 1248	ND		ug/kg	33.8	5.08	1	A
Aroclor 1254	ND		ug/kg	33.8	3.70	1	A
Aroclor 1260	ND		ug/kg	33.8	6.26	1	A
Aroclor 1262	ND		ug/kg	33.8	4.30	1	A
Aroclor 1268	ND		ug/kg	33.8	3.51	1	A
PCBs, Total	17.6	J	ug/kg	33.8	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 03:42
 Analyst: KB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.64	1	A
Aroclor 1232	ND		ug/kg	36.3	7.69	1	A
Aroclor 1242	ND		ug/kg	36.3	4.89	1	A
Aroclor 1248	ND		ug/kg	36.3	5.44	1	A
Aroclor 1254	ND		ug/kg	36.3	3.97	1	A
Aroclor 1260	ND		ug/kg	36.3	6.71	1	A
Aroclor 1262	ND		ug/kg	36.3	4.61	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	ND		ug/kg	36.3	3.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 07/31/19 04:31
 Analyst: KB
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:23
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/26/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.6	2.98	1	A
Aroclor 1221	ND		ug/kg	33.6	3.36	1	A
Aroclor 1232	ND		ug/kg	33.6	7.11	1	A
Aroclor 1242	ND		ug/kg	33.6	4.52	1	A
Aroclor 1248	ND		ug/kg	33.6	5.03	1	A
Aroclor 1254	ND		ug/kg	33.6	3.67	1	A
Aroclor 1260	ND		ug/kg	33.6	6.20	1	A
Aroclor 1262	ND		ug/kg	33.6	4.26	1	A
Aroclor 1268	ND		ug/kg	33.6	3.48	1	A
PCBs, Total	ND		ug/kg	33.6	2.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 07/26/19 17:42
 Analyst: AWS

Extraction Method: EPA 3510C
 Extraction Date: 07/20/19 20:30
 Cleanup Method: EPA 3665A
 Cleanup Date: 07/22/19
 Cleanup Method: EPA 3660B
 Cleanup Date: 07/23/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	0.080	J	ug/l	0.083	0.049	1	B
Aroclor 1254	0.069	JP	ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.149	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/22/19 11:30
Analyst: AWS

Extraction Method: EPA 3510C
Extraction Date: 07/20/19 03:50
Cleanup Method: EPA 3665A
Cleanup Date: 07/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 18 Batch: WG1262314-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/25/19 14:37
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 07/25/19 04:55
Cleanup Method: EPA 3665A
Cleanup Date: 07/25/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264199-1						
Aroclor 1016	ND		ug/kg	32.9	2.92	A
Aroclor 1221	ND		ug/kg	32.9	3.30	A
Aroclor 1232	ND		ug/kg	32.9	6.97	A
Aroclor 1242	ND		ug/kg	32.9	4.43	A
Aroclor 1248	ND		ug/kg	32.9	4.93	A
Aroclor 1254	ND		ug/kg	32.9	3.60	A
Aroclor 1260	ND		ug/kg	32.9	6.08	A
Aroclor 1262	ND		ug/kg	32.9	4.18	A
Aroclor 1268	ND		ug/kg	32.9	3.41	A
PCBs, Total	ND		ug/kg	32.9	2.92	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 18 Batch: WG1262314-2 WG1262314-3									
Aroclor 1016	69		65		40-140	7		50	A
Aroclor 1260	61		63		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		59		30-150	A
Decachlorobiphenyl	67		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		59		30-150	B
Decachlorobiphenyl	74		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264199-2 WG1264199-3									
Aroclor 1016	74		84		40-140	13		50	A
Aroclor 1260	58		68		40-140	16		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		90		30-150	A
Decachlorobiphenyl	66		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		90		30-150	B
Decachlorobiphenyl	70		82		30-150	B

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

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): 06-08 QC Batch ID: WG1264199-6 WG1264199-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12													
Aroclor 1016	ND	220	180	82		188	86		40-140	4		50	A
Aroclor 1260	ND	220	128	58		131	60		40-140	2		50	A

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		78		30-150	A
Decachlorobiphenyl	54		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		77		30-150	B
Decachlorobiphenyl	63		66		30-150	B

PESTICIDES

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06
 Client ID: RIGP2_6-8
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 03:29
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.318	1	A
Lindane	ND		ug/kg	0.677	0.302	1	A
Alpha-BHC	ND		ug/kg	0.677	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.616	1	A
Heptachlor	ND		ug/kg	0.812	0.364	1	A
Aldrin	ND		ug/kg	1.62	0.572	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.913	1	A
Endrin	ND		ug/kg	0.677	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.03	0.710	1	A
Endrin ketone	ND		ug/kg	1.62	0.418	1	A
Dieldrin	ND		ug/kg	1.01	0.507	1	A
4,4'-DDE	ND		ug/kg	1.62	0.376	1	A
4,4'-DDD	ND		ug/kg	1.62	0.579	1	A
4,4'-DDT	ND		ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.384	1	A
Endosulfan II	ND		ug/kg	1.62	0.543	1	A
Endosulfan sulfate	ND		ug/kg	0.677	0.322	1	A
Methoxychlor	ND		ug/kg	3.04	0.947	1	A
Toxaphene	ND		ug/kg	30.4	8.52	1	A
cis-Chlordane	ND		ug/kg	2.03	0.566	1	A
trans-Chlordane	ND		ug/kg	2.03	0.536	1	A
Chlordane	ND		ug/kg	13.2	5.38	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06

Date Collected: 07/19/19 12:30

Client ID: RIGP2_6-8

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07
 Client ID: RIGP2_8-12
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 02:50
 Analyst: AMC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

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	0.688	0.308	1	A
Alpha-BHC	ND		ug/kg	0.688	0.196	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.826	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.582	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.929	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.723	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND	IP	ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.552	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.964	1	A
Toxaphene	ND		ug/kg	31.0	8.67	1	A
cis-Chlordane	ND		ug/kg	2.06	0.576	1	A
trans-Chlordane	ND		ug/kg	2.06	0.545	1	A
Chlordane	ND		ug/kg	13.4	5.47	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-07**Date Collected:** 07/19/19 12:45**Client ID:** RIGP2_8-12**Date Received:** 07/19/19**Sample Location:** 16.6334 SCHENECTADY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	99		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08
 Client ID: FD01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 03:42
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.70	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.746	1	A
Endrin ketone	ND		ug/kg	1.70	0.439	1	A
Dieldrin	ND		ug/kg	1.07	0.533	1	A
4,4'-DDE	ND		ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.608	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.403	1	A
Endosulfan II	ND		ug/kg	1.70	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.995	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	ND		ug/kg	2.13	0.594	1	A
trans-Chlordane	ND		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	13.9	5.65	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08

Date Collected: 07/19/19 00:00

Client ID: FD01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18
 Client ID: EB01_190719
 Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 07/27/19 12:32
 Analyst: AMC

Extraction Method: EPA 3510C
 Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18

Date Collected: 07/19/19 11:40

Client ID: EB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	46		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/27/19 14:39
Analyst: AMC

Extraction Method: EPA 3510C
Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1263667-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/27/19 14:39
Analyst: AMC

Extraction Method: EPA 3510C
Extraction Date: 07/24/19 06:09

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 18 Batch: WG1263667-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	89		30-150	B

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/26/19 14:54
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/26/19 02:28
Cleanup Method: EPA 3620B
Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264768-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.282	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.575	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.84	0.853	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.948	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.84	0.885	A
Toxaphene	ND		ug/kg	28.4	7.96	A
cis-Chlordane	ND		ug/kg	1.90	0.528	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.02	A

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 07/26/19 14:54
 Analyst: AMC

Extraction Method: EPA 3546
 Extraction Date: 07/26/19 02:28
 Cleanup Method: EPA 3620B
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06-08 Batch: WG1264768-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	84		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1263667-2 WG1263667-3									
Delta-BHC	76		85		30-150	11		20	A
Lindane	73		82		30-150	12		20	A
Alpha-BHC	73		82		30-150	12		20	A
Beta-BHC	75		84		30-150	11		20	A
Heptachlor	67		75		30-150	11		20	A
Aldrin	65		72		30-150	10		20	A
Heptachlor epoxide	73		83		30-150	12		20	A
Endrin	75		85		30-150	12		20	A
Endrin aldehyde	61		73		30-150	17		20	A
Endrin ketone	80		92		30-150	13		20	A
Dieldrin	75		85		30-150	12		20	A
4,4'-DDE	75		84		30-150	12		20	A
4,4'-DDD	75		85		30-150	12		20	A
4,4'-DDT	75		86		30-150	13		20	A
Endosulfan I	67		75		30-150	11		20	A
Endosulfan II	72		81		30-150	12		20	A
Endosulfan sulfate	72		82		30-150	13		20	A
Methoxychlor	68		79		30-150	15		20	A
cis-Chlordane	72		80		30-150	10		20	A
trans-Chlordane	68		76		30-150	12		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 18 Batch: WG1263667-2 WG1263667-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		71		30-150	A
Decachlorobiphenyl	74		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		74		30-150	B
Decachlorobiphenyl	96		108		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264768-2 WG1264768-3									
Delta-BHC	91		98		30-150	7		30	A
Lindane	92		99		30-150	7		30	A
Alpha-BHC	96		102		30-150	6		30	A
Beta-BHC	84		90		30-150	7		30	A
Heptachlor	96		103		30-150	7		30	A
Aldrin	89		94		30-150	5		30	A
Heptachlor epoxide	90		96		30-150	6		30	A
Endrin	91		98		30-150	7		30	A
Endrin aldehyde	59		60		30-150	2		30	A
Endrin ketone	78		84		30-150	7		30	A
Dieldrin	94		100		30-150	6		30	A
4,4'-DDE	87		92		30-150	6		30	A
4,4'-DDD	90		97		30-150	7		30	A
4,4'-DDT	91		98		30-150	7		30	A
Endosulfan I	82		88		30-150	7		30	A
Endosulfan II	86		92		30-150	7		30	A
Endosulfan sulfate	71		76		30-150	7		30	A
Methoxychlor	101		109		30-150	8		30	A
cis-Chlordane	78		84		30-150	7		30	A
trans-Chlordane	70		78		30-150	11		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06-08 Batch: WG1264768-2 WG1264768-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		82		30-150	B
Decachlorobiphenyl	83		87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		92		30-150	A
Decachlorobiphenyl	85		92		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

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: RIGP2_8-12 Associated sample(s): 06-08 QC Batch ID: WG1264768-4 WG1264768-5 QC Sample: L1932200-07 Client													
Delta-BHC	ND	35.7	31.9	89		31.6	89		30-150	1		50	A
Lindane	ND	35.7	32.3	91		31.6	89		30-150	2		50	A
Alpha-BHC	ND	35.7	34.0	95		32.9	93		30-150	3		50	A
Beta-BHC	ND	35.7	29.6	83		29.2	83		30-150	1		50	A
Heptachlor	ND	35.7	33.9	95		33.4	95		30-150	1		50	A
Aldrin	ND	35.7	31.0	87		31.0	88		30-150	0		50	A
Heptachlor epoxide	ND	35.7	31.7	89		31.8	90		30-150	0		50	A
Endrin	ND	35.7	32.5	91		33.3	94		30-150	2		50	A
Endrin aldehyde	ND	35.7	23.3	65		24.4	69		30-150	5		50	A
Endrin ketone	ND	35.7	29.2	82		30.0	85		30-150	3		50	A
Dieldrin	ND	35.7	32.8	92		33.4	95		30-150	2		50	A
4,4'-DDE	ND	35.7	30.6	86		31.5	89		30-150	3		50	A
4,4'-DDD	ND	35.7	31.6	89		33.3	94		30-150	5		50	A
4,4'-DDT	NDIP	35.7	32.8	92		34.4	97		30-150	5		50	A
Endosulfan I	ND	35.7	29.1	82		29.6	84		30-150	2		50	A
Endosulfan II	ND	35.7	30.6	86		31.7	90		30-150	4		50	A
Endosulfan sulfate	ND	35.7	25.9	73		26.9	76		30-150	4		50	A
Methoxychlor	ND	35.7	37.7	106		38.7	109		30-150	3		50	A
cis-Chlordane	ND	35.7	27.5	77		27.8	79		30-150	1		50	A
trans-Chlordane	ND	35.7	26.9	75		26.4	75		30-150	2		50	A

Matrix Spike Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

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): 06-08 QC Batch ID: WG1264768-4 WG1264768-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		73		30-150	B
Decachlorobiphenyl	87		89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		85		30-150	A
Decachlorobiphenyl	89		98		30-150	A

METALS

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-06

Date Collected: 07/19/19 12:30

Client ID: RIGP2_6-8

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3290		mg/kg	8.26	2.23	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Antimony, Total	0.322	J	mg/kg	4.13	0.314	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Arsenic, Total	2.50		mg/kg	0.826	0.172	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Barium, Total	10.2		mg/kg	0.826	0.144	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Beryllium, Total	0.215	J	mg/kg	0.413	0.027	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Cadmium, Total	0.165	J	mg/kg	0.826	0.081	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Calcium, Total	1100		mg/kg	8.26	2.89	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Chromium, Total	4.10		mg/kg	0.826	0.079	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Cobalt, Total	3.39		mg/kg	1.65	0.137	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Copper, Total	10.0		mg/kg	0.826	0.213	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Iron, Total	9150		mg/kg	4.13	0.746	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Lead, Total	3.78	J	mg/kg	4.13	0.221	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Magnesium, Total	1360		mg/kg	8.26	1.27	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Manganese, Total	221		mg/kg	0.826	0.131	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.044	1	07/25/19 06:20	07/25/19 16:36	EPA 7471B	1,7471B	GD
Nickel, Total	7.48		mg/kg	2.06	0.200	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Potassium, Total	257		mg/kg	206	11.9	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Selenium, Total	0.364	J	mg/kg	1.65	0.213	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.826	0.234	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Sodium, Total	33.3	J	mg/kg	165	2.60	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Vanadium, Total	9.90		mg/kg	0.826	0.168	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB
Zinc, Total	22.6		mg/kg	4.13	0.242	2	07/24/19 20:35	07/25/19 19:04	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-07

Date Collected: 07/19/19 12:45

Client ID: RIGP2_8-12

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	2670		mg/kg	8.72	2.35	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Antimony, Total	0.358	J	mg/kg	4.36	0.331	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Arsenic, Total	2.14		mg/kg	0.872	0.181	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Barium, Total	10.9		mg/kg	0.872	0.152	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Beryllium, Total	0.192	J	mg/kg	0.436	0.029	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Cadmium, Total	0.174	J	mg/kg	0.872	0.086	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Calcium, Total	12300		mg/kg	8.72	3.05	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Chromium, Total	3.03		mg/kg	0.872	0.084	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Cobalt, Total	2.92		mg/kg	1.74	0.145	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Copper, Total	8.54		mg/kg	0.872	0.225	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Iron, Total	8560		mg/kg	4.36	0.787	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Lead, Total	3.46	J	mg/kg	4.36	0.234	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Magnesium, Total	1470		mg/kg	8.72	1.34	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Manganese, Total	219		mg/kg	0.872	0.139	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.069	0.045	1	07/25/19 06:20	07/25/19 16:09	EPA 7471B	1,7471B	GD
Nickel, Total	6.77		mg/kg	2.18	0.211	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Potassium, Total	243		mg/kg	218	12.6	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Selenium, Total	0.418	J	mg/kg	1.74	0.225	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Sodium, Total	57.0	J	mg/kg	174	2.75	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.74	0.275	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Vanadium, Total	8.74		mg/kg	0.872	0.177	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB
Zinc, Total	19.2		mg/kg	4.36	0.256	2	07/24/19 20:35	07/25/19 17:06	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-08

Date Collected: 07/19/19 00:00

Client ID: FD01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3310		mg/kg	8.29	2.24	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.14	0.315	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Arsenic, Total	2.66		mg/kg	0.829	0.172	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Barium, Total	11.2		mg/kg	0.829	0.144	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Beryllium, Total	0.257	J	mg/kg	0.414	0.027	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Cadmium, Total	0.182	J	mg/kg	0.829	0.081	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Calcium, Total	922		mg/kg	8.29	2.90	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Chromium, Total	3.83		mg/kg	0.829	0.080	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Cobalt, Total	3.32		mg/kg	1.66	0.138	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Copper, Total	10.2		mg/kg	0.829	0.214	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Iron, Total	9800		mg/kg	4.14	0.748	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Lead, Total	3.72	J	mg/kg	4.14	0.222	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Magnesium, Total	1200		mg/kg	8.29	1.28	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Manganese, Total	240		mg/kg	0.829	0.132	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.067	0.044	1	07/25/19 06:20	07/25/19 16:42	EPA 7471B	1,7471B	GD
Nickel, Total	7.45		mg/kg	2.07	0.200	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Potassium, Total	267		mg/kg	207	11.9	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Selenium, Total	0.522	J	mg/kg	1.66	0.214	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.829	0.234	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Sodium, Total	34.1	J	mg/kg	166	2.61	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.66	0.261	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Vanadium, Total	10.1		mg/kg	0.829	0.168	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB
Zinc, Total	23.0		mg/kg	4.14	0.243	2	07/24/19 20:35	07/25/19 19:17	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-11

Date Collected: 07/19/19 14:40

Client ID: RIGP4_2-4

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

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	3490		mg/kg	8.42	2.27	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.21	0.320	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Arsenic, Total	2.13		mg/kg	0.842	0.175	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Barium, Total	8.81		mg/kg	0.842	0.146	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Beryllium, Total	0.227	J	mg/kg	0.421	0.028	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Cadmium, Total	0.152	J	mg/kg	0.842	0.083	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Calcium, Total	537		mg/kg	8.42	2.95	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Chromium, Total	3.03		mg/kg	0.842	0.081	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Cobalt, Total	3.21		mg/kg	1.68	0.140	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Copper, Total	8.30		mg/kg	0.842	0.217	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Iron, Total	8910		mg/kg	4.21	0.761	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Lead, Total	2.58	J	mg/kg	4.21	0.226	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Magnesium, Total	1220		mg/kg	8.42	1.30	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Manganese, Total	186		mg/kg	0.842	0.134	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.044	1	07/25/19 09:30	07/25/19 17:36	EPA 7471B	1,7471B	GD
Nickel, Total	6.85		mg/kg	2.10	0.204	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Potassium, Total	237		mg/kg	210	12.1	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Selenium, Total	0.371	J	mg/kg	1.68	0.217	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.842	0.238	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Sodium, Total	99.8	J	mg/kg	168	2.65	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.68	0.265	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Vanadium, Total	9.28		mg/kg	0.842	0.171	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB
Zinc, Total	18.5		mg/kg	4.21	0.247	2	07/24/19 20:35	07/25/19 19:21	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-15

Date Collected: 07/19/19 15:25

Client ID: RIGP5_0-2

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2730		mg/kg	8.24	2.22	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Antimony, Total	ND		mg/kg	4.12	0.313	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Arsenic, Total	1.85		mg/kg	0.824	0.171	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Barium, Total	16.5		mg/kg	0.824	0.143	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Beryllium, Total	0.190	J	mg/kg	0.412	0.027	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Cadmium, Total	0.239	J	mg/kg	0.824	0.081	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Calcium, Total	1380		mg/kg	8.24	2.88	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Chromium, Total	3.35		mg/kg	0.824	0.079	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Cobalt, Total	2.93		mg/kg	1.65	0.137	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Copper, Total	10.2		mg/kg	0.824	0.213	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Iron, Total	8020		mg/kg	4.12	0.744	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Lead, Total	32.9		mg/kg	4.12	0.221	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Magnesium, Total	1170		mg/kg	8.24	1.27	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Manganese, Total	200		mg/kg	0.824	0.131	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Mercury, Total	0.061	J	mg/kg	0.066	0.043	1	07/25/19 06:20	07/25/19 16:43	EPA 7471B	1,7471B	GD
Nickel, Total	6.59		mg/kg	2.06	0.199	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Potassium, Total	230		mg/kg	206	11.9	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Selenium, Total	0.363	J	mg/kg	1.65	0.213	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.824	0.233	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Sodium, Total	37.1	J	mg/kg	165	2.60	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.65	0.260	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Vanadium, Total	8.46		mg/kg	0.824	0.167	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB
Zinc, Total	74.5		mg/kg	4.12	0.242	2	07/24/19 20:35	07/25/19 19:26	EPA 3050B	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**SAMPLE RESULTS**

Lab ID: L1932200-18

Date Collected: 07/19/19 11:40

Client ID: EB01_190719

Date Received: 07/19/19

Sample Location: 16.6334 SCHENECTADY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.109		mg/l	0.0100	0.00327	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00016	J	mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Barium, Total	0.00104		mg/l	0.00050	0.00017	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Calcium, Total	0.612		mg/l	0.100	0.0394	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.00055	J	mg/l	0.00100	0.00017	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Copper, Total	0.00060	J	mg/l	0.00100	0.00038	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Iron, Total	0.353		mg/l	0.0700	0.0191	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Lead, Total	0.00047	J	mg/l	0.00100	0.00034	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Magnesium, Total	0.112		mg/l	0.0700	0.0242	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Manganese, Total	0.01286		mg/l	0.00100	0.00044	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 12:21	07/25/19 21:51	EPA 7470A	1,7470A	EA
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Potassium, Total	0.0907	J	mg/l	0.100	0.0309	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Sodium, Total	0.208		mg/l	0.100	0.0293	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/19 12:35	07/25/19 18:16	EPA 3005A	1,6020B	AM



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

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): 18 Batch: WG1263841-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Antimony, Total	0.00059	J	mg/l	0.00400	0.00042	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Iron, Total	0.0252	J	mg/l	0.0700	0.0191	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Thallium, Total	0.00015	J	mg/l	0.00050	0.00014	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	07/24/19 12:35	07/25/19 15:52	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 06-08,11,15 Batch: WG1264078-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Barium, Total	ND		mg/kg	0.400	0.070	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Iron, Total	0.400	J	mg/kg	2.00	0.361	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/24/19 20:35	07/25/19 16:57	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/24/19 20:35	07/25/19 16:57	1,6010D	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): 06-08,15 Batch: WG1264201-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/25/19 06:20	07/25/19 16:05	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

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): 11 Batch: WG1264313-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/25/19 09:30	07/25/19 11:21	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 18 Batch: WG1264464-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	07/25/19 12:21	07/25/19 21:41	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1263841-2								
Aluminum, Total	100		-		80-120	-		
Antimony, Total	80		-		80-120	-		
Arsenic, Total	101		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	111		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Calcium, Total	102		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	101		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	114		-		80-120	-		
Lead, Total	106		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	99		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Potassium, Total	100		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	101		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Thallium, Total	106		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1263841-2					
Zinc, Total	108	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08,11,15 Batch: WG1264078-2 SRM Lot Number: D105-540					
Aluminum, Total	61	-	51-149	-	
Antimony, Total	150	-	19-249	-	
Arsenic, Total	102	-	70-130	-	
Barium, Total	86	-	75-125	-	
Beryllium, Total	92	-	75-125	-	
Cadmium, Total	97	-	75-125	-	
Calcium, Total	83	-	73-127	-	
Chromium, Total	87	-	70-130	-	
Cobalt, Total	97	-	75-125	-	
Copper, Total	94	-	75-125	-	
Iron, Total	76	-	38-162	-	
Lead, Total	96	-	71-128	-	
Magnesium, Total	82	-	63-137	-	
Manganese, Total	88	-	76-124	-	
Nickel, Total	98	-	70-131	-	
Potassium, Total	76	-	60-140	-	
Selenium, Total	100	-	63-137	-	
Silver, Total	90	-	69-131	-	
Sodium, Total	94	-	37-162	-	
Thallium, Total	97	-	68-132	-	
Vanadium, Total	89	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 06-08,11,15 Batch: WG1264078-2 SRM Lot Number: D105-540					
Zinc, Total	95	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 06-08,15 Batch: WG1264201-2 SRM Lot Number: D105-540					
Mercury, Total	113	-	60-141	-	
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1264313-2 SRM Lot Number: D105-540					
Mercury, Total	106	-	60-141	-	
Total Metals - Mansfield Lab Associated sample(s): 18 Batch: WG1264464-2					
Mercury, Total	94	-	80-120	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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): 18 QC Batch ID: WG1263841-3 WG1263841-4 QC Sample: L1931271-01 Client ID: MS Sample												
Aluminum, Total	0.746	2	3.00	113		3.00	113		75-125	0		20
Antimony, Total	ND	0.5	0.4329	86		0.4817	96		75-125	11		20
Arsenic, Total	0.00124	0.12	0.1272	105		0.1352	112		75-125	6		20
Barium, Total	0.1525	2	2.309	108		2.317	108		75-125	0		20
Beryllium, Total	ND	0.05	0.05654	113		0.05748	115		75-125	2		20
Cadmium, Total	ND	0.051	0.05689	112		0.05856	115		75-125	3		20
Calcium, Total	159.	10	172	130	Q	172	130	Q	75-125	0		20
Chromium, Total	0.00274	0.2	0.2182	108		0.2152	106		75-125	1		20
Cobalt, Total	0.00145	0.5	0.5368	107		0.5444	108		75-125	1		20
Copper, Total	0.00365	0.25	0.2656	105		0.2648	104		75-125	0		20
Iron, Total	4.81	1	6.28	147	Q	6.23	142	Q	75-125	1		20
Lead, Total	0.00321	0.51	0.5606	109		0.5952	116		75-125	6		20
Magnesium, Total	50.2	10	63.1	129	Q	63.4	132	Q	75-125	0		20
Manganese, Total	0.6958	0.5	1.226	106		1.239	109		75-125	1		20
Nickel, Total	0.00283	0.5	0.5472	109		0.5600	111		75-125	2		20
Potassium, Total	3.88	10	14.5	106		14.6	107		75-125	1		20
Selenium, Total	ND	0.12	0.124	103		0.132	110		75-125	6		20
Silver, Total	ND	0.05	0.05303	106		0.05455	109		75-125	3		20
Sodium, Total	75.0	10	85.1	101		86.0	110		75-125	1		20
Thallium, Total	ND	0.12	0.1315	110		0.1400	117		75-125	6		20
Vanadium, Total	0.00180J	0.5	0.5492	110		0.5450	109		75-125	1		20

Matrix Spike Analysis Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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): 18 QC Batch ID: WG1263841-3 WG1263841-4 QC Sample: L1931271-01 Client ID: MS Sample									
Zinc, Total	0.01186	0.5	0.5481	107	0.5644	110	75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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): 06-08,11,15 QC Batch ID: WG1264078-3 WG1264078-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12											
Aluminum, Total	2670	171	3140	274	Q	2980	188	Q	75-125	5	20
Antimony, Total	0.358J	42.8	38.8	91		37.6	91		75-125	3	20
Arsenic, Total	2.14	10.3	12.8	104		11.8	98		75-125	8	20
Barium, Total	10.9	171	168	92		165	93		75-125	2	20
Beryllium, Total	0.192J	4.28	4.23	99		4.10	99		75-125	3	20
Cadmium, Total	0.174J	4.37	4.25	97		4.06	96		75-125	5	20
Calcium, Total	12300	856	12100	0	Q	14800	303	Q	75-125	20	20
Chromium, Total	3.03	17.1	18.3	89		17.7	89		75-125	3	20
Cobalt, Total	2.92	42.8	41.2	89		39.3	88		75-125	5	20
Copper, Total	8.54	21.4	28.6	94		27.8	93		75-125	3	20
Iron, Total	8560	85.6	9440	1030	Q	8760	242	Q	75-125	7	20
Lead, Total	3.46J	43.7	44.6	102		42.4	101		75-125	5	20
Magnesium, Total	1470	856	2270	93		2290	99		75-125	1	20
Manganese, Total	219	42.8	256	86		254	85		75-125	1	20
Nickel, Total	6.77	42.8	44.8	89		42.7	87		75-125	5	20
Potassium, Total	243	856	1060	95		1040	96		75-125	2	20
Selenium, Total	0.418J	10.3	10.2	99		10.0	101		75-125	2	20
Silver, Total	ND	25.7	23.9	93		23.4	94		75-125	2	20
Sodium, Total	57.0J	856	912	106		895	108		75-125	2	20
Thallium, Total	ND	10.3	9.20	90		8.86	89		75-125	4	20
Vanadium, Total	8.74	42.8	49.1	94		47.6	94		75-125	3	20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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): 06-08,11,15 QC Batch ID: WG1264078-3 WG1264078-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12									
Zinc, Total	19.2	42.8	59.3	94	56.7	91	75-125	4	20
Total Metals - Mansfield Lab Associated sample(s): 06-08,15 QC Batch ID: WG1264201-3 WG1264201-4 QC Sample: L1932200-07 Client ID: RIGP2_8-12									
Mercury, Total	ND	0.14	0.131	94	0.132	95	80-120	1	20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1264313-3 QC Sample: L1932895-04 Client ID: MS Sample									
Mercury, Total	ND	0.159	0.174	110	-	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1264464-3 QC Sample: L1930587-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00478	96	-	-	75-125	-	20

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1932200
Report Date: 08/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1264313-4 QC Sample: L1932895-04 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 18 QC Batch ID: WG1264464-4 QC Sample: L1930587-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-01**Client ID:** RIGP1_0-2**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 10:45**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

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	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-02**Client ID:** RIGP1_2-4**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 10:50**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.4		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-03**Client ID:** RIGP1_4-6**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 10:55**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-04**Client ID:** RIGP1_6-8**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 11:00**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-05**Client ID:** RIGP1_8-10**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 11:05**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-06
Client ID: RIGP2_6-8
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:30
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	07/22/19 10:21	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:23	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.855	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-07

Client ID: RIGP2_8-12

Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 12:45

Date Received: 07/19/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	07/22/19 14:15	07/22/19 16:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.876	0.175	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-08
Client ID: FD01_190719
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 00:00
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	07/22/19 10:21	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:27	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.855	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-09**Client ID:** RIGP3_6-8**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 13:40**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19**SAMPLE RESULTS****Lab ID:** L1932200-10**Client ID:** RIGP3_8-10**Sample Location:** 16.6334 SCHENECTADY, NY**Date Collected:** 07/19/19 13:50**Date Received:** 07/19/19**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.8		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-11
Client ID: RIGP4_2-4
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 14:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:28	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.854	0.171	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-15

Client ID: RIGP5_0-2

Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 15:25

Date Received: 07/19/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	07/20/19 13:50	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	07/22/19 14:15	07/22/19 16:29	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.834	0.167	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

SAMPLE RESULTS

Lab ID: L1932200-18
Client ID: EB01_190719
Sample Location: 16.6334 SCHENECTADY, NY

Date Collected: 07/19/19 11:40
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/21/19 05:05	07/22/19 12:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/19 05:30	07/20/19 06:42	1,7196A	MA



Project Name: HAMILTON HILL II PA1 SITE

Lab Number: L1932200

Project Number: 16.6334

Report Date: 08/02/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1262349-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	07/20/19 05:30	07/20/19 06:23	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 18 Batch: WG1262597-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	07/21/19 05:05	07/22/19 11:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-08,11,15 Batch: WG1262785-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	07/22/19 14:15	07/22/19 16:09	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 06-08,11,15 Batch: WG1262900-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/22/19 17:50	07/23/19 09:50	1,7196A	NH

Lab Control Sample Analysis**Batch Quality Control****Project Name:** HAMILTON HILL II PA1 SITE**Project Number:** 16.6334**Lab Number:** L1932200**Report Date:** 08/02/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1262349-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 18 Batch: WG1262597-2 WG1262597-3								
Cyanide, Total	102		104		85-115	2		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 Batch: WG1262785-2 WG1262785-3								
Cyanide, Total	42	Q	63	Q	80-120	34		35
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 Batch: WG1262900-2								
Chromium, Hexavalent	89		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262349-4 QC Sample: L1932200-18 Client ID: EB01_190719												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262597-4 WG1262597-5 QC Sample: L1931724-01 Client ID: MS Sample												
Cyanide, Total	1.95	0.2	2.03	40	Q	1.71	0	Q	80-120	17		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262785-4 WG1262785-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Cyanide, Total	ND	10	10	95		10	97		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262900-4 WG1262900-5 QC Sample: L1932200-07 Client ID: RIGP2_8-12												
Chromium, Hexavalent	ND	991	997	101		1180	103		75-125	17		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: HAMILTON HILL II PA1 SITE

Project Number: 16.6334

Lab Number: L1932200

Report Date: 08/02/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18 QC Batch ID: WG1262349-3 QC Sample: L1932200-18 Client ID: EB01_190719						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05,07,09-11,15 QC Batch ID: WG1262401-1 QC Sample: L1932200-07 Client ID: RIGP2_8-12						
Solids, Total	91.3	91.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06,08 QC Batch ID: WG1262794-1 QC Sample: L1930257-01 Client ID: DUP Sample						
Solids, Total	76.6	77.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-08,11,15 QC Batch ID: WG1262900-7 QC Sample: L1932200-07 Client ID: RIGP2_8-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-01A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-01B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-01C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-01D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-02A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-02B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-02C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-02D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-03A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-03B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-03C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-03D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-04A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-04B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-04C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-04D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-05A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-05B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-05C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-05D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 08021916:51
Lab Number: L1932200
Report Date: 08/02/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-06A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-06B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-06C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-06D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-06E	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-06F	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-06G	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07A1	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07A2	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-07B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07B1	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07B2	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C1	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07C2	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-07D	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07D1	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07D2	Plastic 2oz unpreserved for TS	C	NA		2.7	Y	Absent		TS(7)
L1932200-07E	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 08021916:51
Lab Number: L1932200
Report Date: 08/02/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-07E1	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-07E2	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-07F	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07F1	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07F2	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G1	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07G2	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-07H	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07H1	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-07H2	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)
L1932200-08A	Vial MeOH preserved	C	NA		2.7	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-08B	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-08C	Vial water preserved	C	NA		2.7	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-08D	Metals Only-Glass 60mL/2oz unpreserved	C	NA		2.7	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)
L1932200-08E	Glass 120ml/4oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-08F	Glass 250ml/8oz unpreserved	C	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1932200-08G	Plastic 8oz unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(28)

*Values in parentheses indicate holding time in days

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-09A	Vial MeOH preserved	D	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-09B	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-09C	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-09D	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-09E	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14)
L1932200-10A	Vial MeOH preserved	D	NA		4.0	Y	Absent		NYTCL-8260HLW-R2(14)
L1932200-10B	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-10C	Vial water preserved	D	NA		4.0	Y	Absent	20-JUL-19 03:34	NYTCL-8260HLW-R2(14)
L1932200-10D	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-10E	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14)
L1932200-11A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-11B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.0	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)
L1932200-11C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-11D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-12A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-12B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-12C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-12D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-13A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-13B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-13C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-13D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-14A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-14B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-14C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 08021916:51
Lab Number: L1932200
Report Date: 08/02/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-14D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-15A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		TS(7)
L1932200-15B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.0	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)
L1932200-15C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-15D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HEXCR-7196(30)
L1932200-16A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-16B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-16C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-16D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-17A	Plastic 2oz unpreserved for TS	D	NA		4.0	Y	Absent		HOLD-WETCHEM()
L1932200-17B	Glass 60mL/2oz unpreserved	D	NA		4.0	Y	Absent		HOLD-METAL(180)
L1932200-17C	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-17D	Glass 120ml/4oz unpreserved	D	NA		4.0	Y	Absent		HOLD-8270(14)
L1932200-18A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18C	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-18D	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-18E	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-18F	Plastic 250ml unpreserved	B	7	7	2.4	Y	Absent		HEXCR-7196(1)
L1932200-18G	Plastic 250ml NaOH preserved	B	>12	>12	2.4	Y	Absent		TCN-9010(14)
L1932200-18H	Plastic 250ml HNO3 preserved	B	<2	<2	2.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Serial_No: 08021916:51
Lab Number: L1932200
Report Date: 08/02/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932200-18I	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(7)
L1932200-18J	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8082-LVI(7)
L1932200-18K	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1932200-18L	Amber 120ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8081(7)
L1932200-18M	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1932200-18N	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L1932200-18O	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1932200-18P	Amber 250ml unpreserved	B	7	7	2.4	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1932200-19A	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-19B	Vial HCl preserved	B	NA		2.4	Y	Absent		NYTCL-8260-R2(14)
L1932200-19C	Plastic 250ml unpreserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)
L1932200-20A	Plastic 250ml Trizma preserved	A	NA		4.3	Y	Absent		A2-NY-537-ISOTOPE(14)

Project Name: HAMILTON HILL II PA1 SITE**Lab Number:** L1932200**Project Number:** 16.6334**Report Date:** 08/02/19

GLOSSARY

Acronyms

DL	- 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 limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
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.
LCS D	- 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.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
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. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
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

Report Format: DU Report with 'J' Qualifiers

Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

- 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.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- 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).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- 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.

Report Format: DU Report with 'J' Qualifiers



Project Name: HAMILTON HILL II PA1 SITE
Project Number: 16.6334

Lab Number: L1932200
Report Date: 08/02/19

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.
- 122 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). EPA Method 537, EPA/600/R-08/092. Version 1.1, September 2009.

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 its 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.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 13

Published Date: 7/30/2019 3:17:52 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**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,

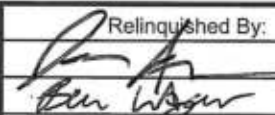
3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, 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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-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:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **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 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** 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 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.**EPA 522.****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, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1** Hg.**SM2340B**

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd in Lab 7/20/19		ALPHA Job # L1932200	
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: Hamilton Hill II T91 Site Project Location: 16.6334 Schenectady, NY Project # 16.6334 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☒ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #	
Client Information Client: C.T. Mole Associates Address: 50 Century Ave. Dr Latham NY 12110 Phone: 518 786 7400 Fax: Email: A.Smith@CTMA.com		Project Manager: Aimee Smith ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:			
These samples have been previously analyzed by Alpha ☐				ANALYSIS				Sample Filtration ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below)	
Other project specific requirements/comments:				Please specify Metals or TAL.				Total Bottles	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials	
32200-01		RIGP1-0-2		7/19/19 1045		Soil		DA	
-02		RIGP1-2-4		1050		Soil		DA	
-03		RIGP1-4-6		1055		Soil		DA	
-04		RIGP1-6-8		1100		Soil		DA	
-05		RIGP1-8-10		1105		Soil		DA	
-06		RIGP2-6-8		1230		Soil		DA	
-07		RIGP2-8-12		1245		Soil		DA	
-08		FD01-190719		-		Soil		DA	
-09		RIGP3-6-8		1340		Soil		DA	
-10		RIGP3-8-10		1350		Soil		DA	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Sample Specific Comments	
Relinquished By:		Date/Time		Received By:		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
		7/19/19 1745		Ben Wagner AAL		7/19/19 1745			
		7/19/19 1800				7/20/19 0910			

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 2 of 2		Date Rec'd in Lab 7/20/19		ALPHA Job # L1932200					
		Project Information Project Name: <u>Hamilton Hill #1 TA1 site</u> Project Location: <u>Schenectady, NY</u> Project # <u>16.6334</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUiS (1 File) ☒ EQUiS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #							
Client Information Client: <u>C.T. McE Associates</u> Address: <u>50 Conklyn Hill Rd</u> <u>Latham, NY 12110</u> Phone: <u>518 786 7400</u> Fax: <u>518 786 7400</u> Email: <u>A.Smith@ctmde.com</u>		Project Manager: <u>Aimee Smith</u> ALPHAQuote #: Turn-Around Time Standard ☒ Rush (only if pre approved) ☐ Due Date: # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:							
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:						ANALYSIS TCL TOC TIC TCL SUB TIC TCL Pest. TCL PCB TAL Metals Hg, Hexachlor, Cyano 21 PFAS 14 Dioxane ☐ Done ☐ Lab to do ☐ Lab to do (Please Specify below) Total Bottles							
Please specify Metals or TAL.													
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials					
				Date Time									
32200-11		RIGP4-2-4		7/19/19 1440		Soil		DA					
-12		RIGP4-1-6		1445				DA					
-13		RIGP4-6-8		1450				DA					
-14		RIGP4-8-10		1535				DA					
-15		RIGP5-0-2		1525				DA					
-16		RIGP5-2-4		1530				DA					
-17		RIGP5-4-6		1535				DA					
-18		EBO1-120719		1140		Blank water		DA					
-19		LTBO1-120719		-				DA					
-20		FTBO1-120719		1630				DA					
Preservative Code:		Container Code		Westboro: Certification No: MA935		Mansfield: Certification No: MA015		Container Type		V A A A A/P P A			
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle						Preservative		P/B A A A A/E A/E/O A			
Relinquished By:		Date/Time		Received By:		Date/Time							
<u>Ben Wagner</u>		7/19/19 1745		<u>Ben Wagner AAL</u>		7/19/19 1745							
		7/19/19 1800		<u>[Signature]</u>		7/20/19 00:20							
Form No: 01-25 HC (rev. 30-Sept-2013)												Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	