

Appendix 12:  
Sediment Sampling and Analysis  
Report



Joint Permit Application Package  
Albany Port District Commission

**Port of Albany  
Expansion Project**

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# ATLANTIC TESTING LABORATORIES

**WBE certified company**

**Albany**  
22 Corporate Drive  
Clifton Park, NY 12065  
518-383-9144 (T)  
atlantictesting.com

September 24, 2020

McFarland-Johnson, Inc.  
60 Railroad Place, Suite 402  
Saratoga Springs, New York 12866

Attn: David Rosa

Re: Sediment Sampling and Analysis Report  
Port of Albany Expansion Project  
Beacon Island Parcel  
Bethlehem, Albany County, New York  
MJ Project No. 18641.02  
ATL Report No. AT5596CE-03-09-20

Ladies/Gentlemen:

Enclosed is a copy of the Sediment Sampling and Analysis report prepared for the referenced site. This project was completed in accordance with the scope of work outlined in Atlantic Testing Laboratories, Limited (ATL) contract number AT5998-245-03-20, dated March 26, 2020.

Please contact our office should you have any questions, or if we may be of further assistance.

Sincerely,  
ATLANTIC TESTING LABORATORIES, Limited

  
Cheyenne J. Dashnaw, P.E.  
Senior Engineer

TSP/CJD/cjd

Enclosures

**SEDIMENT SAMPLING AND ANALYSIS REPORT**

**PORT OF ALBANY EXPANSION PROJECT  
BEACON ISLAND PARCEL  
BETHLEHEM, ALBANY COUNTY, NEW YORK**



*WBE certified company*

**PREPARED BY:**

**ATLANTIC TESTING LABORATORIES, LIMITED  
22 Corporate Drive  
Clifton Park, New York 12065**

**PREPARED FOR:**

**McFarland Johnson, Inc.  
60 Railroad Place, Suite 402  
Saratoga Springs, New York 12866  
*MJ Project No. 18641.02***

**Albany Port District Commission  
106 Smith Boulevard  
Albany, New York 12202**

**ATL REPORT NO. AT5596CE-03-09-20**

**September 24, 2020**

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## **1.0 INTRODUCTION**

At the request of McFarland Johnson, representing the Port of Albany, and in accordance with Atlantic Testing Laboratories, Limited (ATL) contract number AT5998-245-03-20, dated March 26, 2020, sediment sampling and analysis were performed for the Beacon Island shoreline, Bethlehem, Albany County, New York. The sampling services were provided on September 2, 2020. The purpose of the sediment sampling and analysis was to provide requisite data for proposed dredging at the subject site, and evaluate potential reuse options.

## **2.0 SITE DESCRIPTION**

The project site is located along the shoreline of Beacon Island on the Hudson River in Bethlehem, Albany County, New York. A Site Location Map/Core Location Plan, depicting the approximate location of the subject property, is contained in Appendix A.

## **3.0 SEDIMENT SAMPLING**

A Sediment Sampling and Analysis Plan was prepared by ATL (reference ATL Report No. AT5596CE-02-06-20 Revision 2, dated July 21, 2020). The Sediment Sampling and Analysis Plan summarized the planned sediment sampling and analysis activities, identified the proposed sample locations and laboratory analysis, and described how the data would be evaluated relative to the proposed dredging work.

In addition to the current sediment sampling and analysis, sediment samples were previously collected by ATL in June 2019. The findings of the previous sediment sampling and analysis are summarized in ATL Report No. CD4644CE-01-07-19, dated July 15, 2019, and ATL Report No. CD4644CD-01-07-19 Addendum 1, dated August 2, 2019. Approximate core locations, core logs, laboratory reports, and summary of results for the previous samples are also incorporated herein.

### **3.1 Sampling Locations**

The locations of the sediment cores were selected based on a plan created by ATL and as described in the Sediment Sampling and Analysis, to obtain representative samples for areas within the proposed dredging. A Site Location Map/Core Location Plan, depicting the approximate core locations for the June 2019 and September 2020 events, proposed dredging locations, and pertinent site features, is contained in Appendix A.

### **3.2 Sampling Methodologies**

A total of 10 sediment cores were advanced to depths ranging between 10 and 15 feet below the surface of the sediment, with equipment refusal encountered prior to obtaining scheduled depths of 20 to 25 feet for some of the locations. All cores were advanced utilizing a Rossfelder P-3 Vibracore with 4-inch diameter core tubes. Sediment samples were collected continuously at each core location. 4-inch cellulose acetate butyrate (CAB) liners were utilized to extract the samples.

Recovered sediment material was field classified, in general accordance with ASTM D 2488, and representative material throughout the depth of the core was containerized. In addition to the soil type, soil descriptions included the general moisture content, color, and relative plasticity. Core Logs, containing a description of the subsurface stratigraphy

encountered at each core location, are contained in Appendix B. In addition to core logs for the 10 locations investigated in September 2020, Appendix B also includes core logs for 5 locations investigated in June 2019.

## **4.0 LABORATORY ANALYSIS**

### **4.1 Laboratory Samples**

Sediment samples requiring laboratory analysis for particle size/sieve analysis were collected in sealed polyethylene sample bags. Sediment samples that required other laboratory analysis were collected in clean laboratory glassware, with Teflon-lined lids, in accordance with industry standard protocol. Disposable sampling equipment (i.e., plastic bags, nitrile gloves) were utilized to collect these samples, and the samples were stored in a cooler, with ice, and maintained at approximately 4°C during storage and delivery to the laboratory.

A total of 10 sediment samples were collected on September 2, 2020 for subsequent analysis. The samples were submitted to Alpha Analytical, located in Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory (ELAP No. 11148). The sediment samples were laboratory analyzed for total organic carbon (TOC), in accordance with EPA Method 9060A; Target Analyte List (TAL) metals, in accordance with EPA Methods 6010B, 7196, and 7471; volatile organic compound (VOC), in accordance with EPA Method 8260; semi-VOC, in accordance with EPA Method 8270; pesticides, in accordance with EPA Method 8081A; and total polychlorinated biphenyls (PCB), in accordance with EPA Method 8082.

The 10 sediment samples were also laboratory analyzed for particle size/sieve analysis at the ATL soil laboratory in Canton, New York.

A total of 2 quality control samples were collected, including a duplicate sediment sample, and MS/MSD sediment sample. These samples were laboratory analyzed for select metals, in accordance with EPA Methods 6010B, 7196, and 7471; volatile organic compound (VOC), in accordance with EPA Method 8260; semi-VOC, in accordance with EPA Method 8270; pesticides, in accordance with EPA Method 8081A; and total polychlorinated biphenyls (PCB), in accordance with EPA Method 8082

### **4.2 Summary of Laboratory Data**

A copy of the laboratory reports and associated sample custody documentation for the samples collected on is contained in Appendix C. Laboratory analysis reports are also provided in Appendix D, to include the data for sediment samples collected on June 13, 2019. Summaries of analytical results for all samples collected to date are provided in Tables E-1, E-2, and E-3, contained in Appendix E.

## **5.0 CONCLUSIONS AND RECOMMENDATIONS**

The following is a summary of findings from the sediment sampling performed by ATL. Recommendations for further investigation and/or sediment disposal activities are also provided, as warranted.

The sediment sampling did identify various detectable concentrations of target metals, PCB, pesticides, VOC, and semi-VOC in the collected samples. All of the detected VOC, semi-VOC, and pesticides were below Class A NYSDEC TOGS 5.1.9 Threshold values. A majority of the detected metals were below Class A NYSDEC TOGS 5.1.9 Threshold values. Various detected metals in the samples S-10, S-11, S-14, and S-15 were identified as being in the Class B range. The concentration of PCB in samples S-6 and S-10 were identified as being in the Class B range. The concentration of PCB in samples S-11 and S-14 were identified as being in the Class C range.

Based on the information collected during the sediment sampling and analysis, sediment located within sampled areas appears to be silty clay and sand with minimal portions of gravel. If this material is to be removed, it is anticipated that a majority of the dredging can be completed per criteria for Class B sediments (with Class C sediment considerations in the areas of S-11 and S-14).

Removed materials should be managed under an appropriate approved reuse option, via a Beneficial Use Determination, or properly disposed of per NYSDEC regulations. Based on a comparison of the laboratory analysis data to 6 NYCRR Part 360 fill material pre-determined beneficial use criteria, there are exceedances of the limits for general fill, restricted-use fill, and limited-use fill. In consideration of these exceedances, it is anticipated that the dredge material (or portions thereof) will require transport and disposal at an authorized landfill facility.

It is noted that ATL cannot warrant similar conditions would be encountered in other areas not specifically investigated.



**APPENDIX A**

**SITE LOCATION MAP/SAMPLE LOCATION PLAN**



**Site Location Map**

Drawn by:  
TSP

Scale:  
Not to scale

Project No.:  
AT5596

Date:  
May 2020

**Beacon Island Parcel  
Bethlehem, Albany County, New York**

***ATLANTIC TESTING LABORATORIES, Limited***

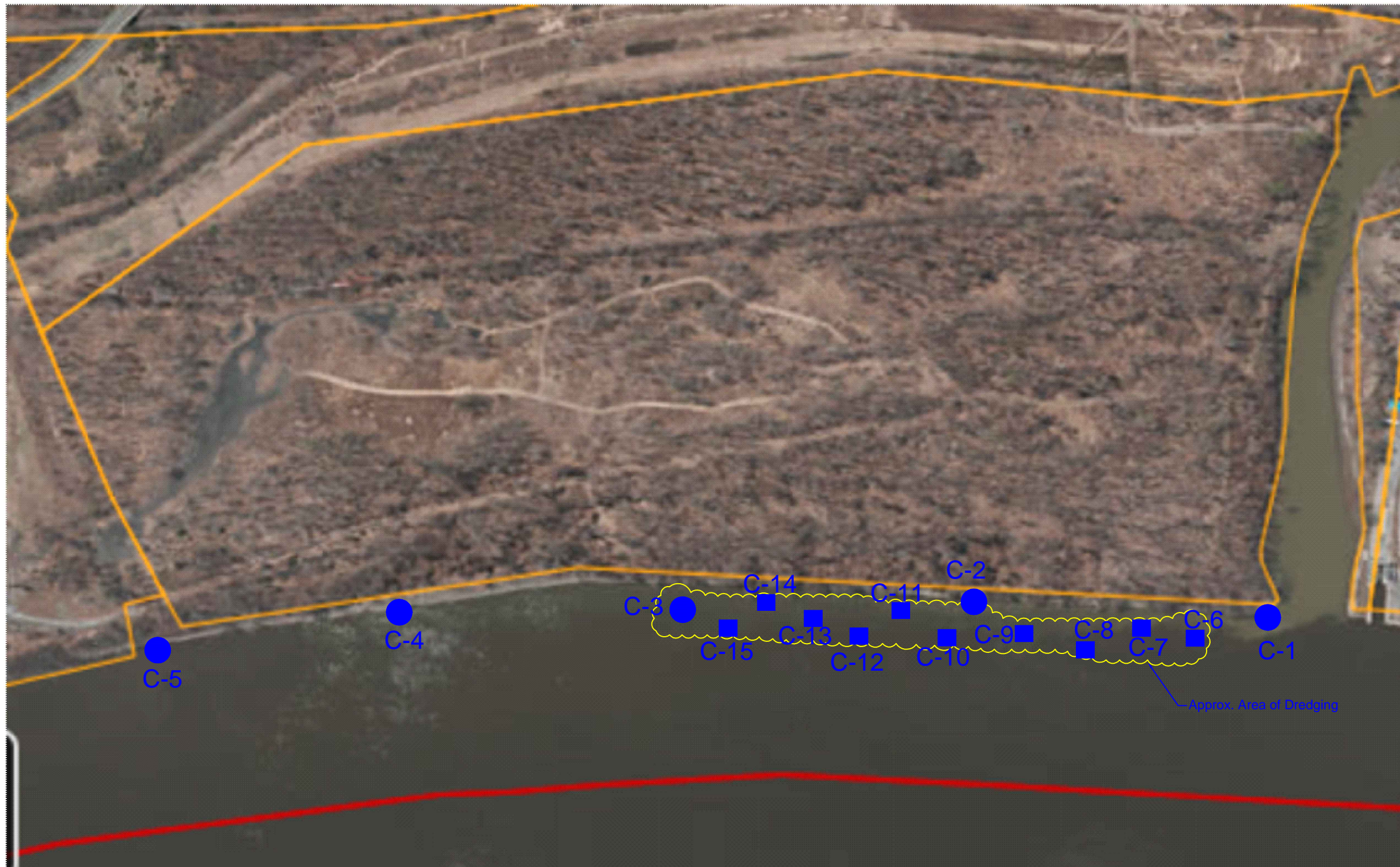
Albany, NY  
Poughkeepsie,


Binghamton, NY  
Syracuse, NY

Canton, NY  
Rochester, NY


Elmira, NY  
Utica, NY


Plattsburgh, NY  
Watertown, NY




 **Beacon Island Parcel**  
Scale: NTS

**LEGEND :**

**C-3**  Approximate Core Location (June 2019)

**C-9**  Approximate Core Location (September 2020)

<b>CORE LOCATION PLAN</b>	Drawn By:	Drawing:	Scale:	Project No.:	Date :
	CJD	1 of 1	As Noted	AT5596	September 2020
Beacon Island Parcel Bethlehem, Albany County, New York		 <b>ATLANTIC TESTING LABORATORIES, Limited</b> Albany, NY Binghamton, NY Canton, NY Elmira, NY Poughkeepsie, NY Plattsburgh, NY Rochester, NY Syracuse, NY Utica, NY Watertown, NY <small>WBE Certified Company      www.AtlanticTesting.com</small>			

**APPENDIX B**

**CORE LOGS**



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-6**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 23.58"**  
 Longitude **73 45' 46.53"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	7.5'	0' - 15'	Grey cmf SAND; little SILT; trace f GRAVEL
1			
2			
3			
4			
5			
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7			
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10			
11			
12			
13			
14			
15			

**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-7**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 22.39"**  
 Longitude **73 45' 46.66"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	7.1'	0' - 15'	Grey cmf SAND; some SILT; trace f GRAVEL
1			
2			
3			
4			
5			
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11			
12			
13			
14			
15			

**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-8**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 21.16"**  
 Longitude **73 45' 46.50"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	8.8'	0' - 10'	Grey cmf SAND; some SILT; little cmf GRAVEL
1			
2			
3			
4			
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10			
<b>NOTES:</b>			
* See grain size laboratory analysis data for additional material classification information.			
** Depth is feet below top of sediment			



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-9**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 19.78"**  
 Longitude **73 45' 46.70"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	5.6'	0' - 10'	Grey cmf SAND; some SILT; trace mf GRAVEL
1			
2			
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10			
<b>NOTES:</b> * See grain size laboratory analysis data for additional material classification information. ** Depth is feet below top of sediment			





# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-10**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 17.77"**  
 Longitude **73 45' 46.60"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	4.2'	0' - 10'	Grey cmf SAND; some SILT; trace mf GRAVEL
1			
2			
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10			
<b>NOTES:</b>			
* See grain size laboratory analysis data for additional material classification information.			
** Depth is feet below top of sediment			



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-11**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 16.68"**  
 Longitude **73 45' 47.00"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	8.2'	0' - 15'	Grey cmf SAND; some SILT; trace mf GRAVEL
1			
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**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-12**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 15.86"**  
 Longitude **73 45' 46.43"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	3.8'	0' - 10'	Grey cmf SAND; little cmf GRAVEL; trace SILT
1			
2			
3			
4			
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9			
10			
<b>NOTES:</b>			
* See grain size laboratory analysis data for additional material classification information.			
** Depth is feet below top of sediment			



# ATLANTIC TESTING LABORATORIES

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**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-13**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 14.87"**  
 Longitude **73 45' 46.73"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	9.6'	0' - 15'	Grey SILT; and CLAY
1			
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4			
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**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment



# ATLANTIC TESTING LABORATORIES

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**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-14**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 13.88"**  
 Longitude **73 45' 47.14"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	14.8'	0' - 15'	Grey cmf SAND; some SILT; little CLAY; trace cmf GRAVEL
1			
2			
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14			
15			

**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment



# ATLANTIC TESTING LABORATORIES

**Sediment Sampling Services**  
**McFarland Johnson**  
**Beacon Island Expansion**  
**Bethlehem, Albany County, New York**  
**ATL Project No. AT5596CE-03-09-20**

SEDIMENT CORE NUMBER: **S-15**  
 METHOD OF CORE ADVANCEMENT: **4" Vibracore**  
 ADVANCEMENT DATE: **September 2, 2020**  
 Latitude **42 36' 13.15"**  
 Longitude **73 45' 46.56"**  
 SEDIMENT SAMPLING CREW: **Tim Gavin**  
**Corey Farmer**

Depth** (feet)	Recovery (feet)	Depth (feet)	Classification of Material*
0	14.5'	0' - 15'	Grey CLAY; and SILT; trace cmf GRAVEL; trace f SAND
1			
2			
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**NOTES:**  
 \* See grain size laboratory analysis data for additional material classification information.  
 \*\* Depth is feet below top of sediment

**APPENDIX C**

**LABORATORY REPORTS AND SAMPLE CUSTODY DOCUMENTATION (SEPTEMBER 2020  
SAMPLES)**



## ANALYTICAL REPORT

Lab Number:	L2036369
Client:	Atlantic Testing Laboratories, Limited 22 Corporate Drive Clifton Park, NY 12065
ATTN:	Cheyenne Dashnaw
Phone:	(518) 383-9144
Project Name:	BEACON ISLAND
Project Number:	AT5596
Report Date:	09/17/20

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](http://www.alphalab.com)





**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2036369-01	S-6	SOIL	GLENMONT, NY	09/02/20 13:40	09/02/20
L2036369-02	S-7	SOIL	GLENMONT, NY	09/02/20 14:10	09/02/20
L2036369-03	S-8	SOIL	GLENMONT, NY	09/02/20 11:00	09/02/20
L2036369-04	S-9	SOIL	GLENMONT, NY	09/02/20 11:30	09/02/20
L2036369-05	S-10	SOIL	GLENMONT, NY	09/02/20 12:00	09/02/20
L2036369-06	S-11	SOIL	GLENMONT, NY	09/02/20 15:05	09/02/20
L2036369-07	S-12	SOIL	GLENMONT, NY	09/02/20 12:30	09/02/20
L2036369-08	S-13	SOIL	GLENMONT, NY	09/02/20 14:40	09/02/20
L2036369-09	S-14	SOIL	GLENMONT, NY	09/02/20 15:35	09/02/20
L2036369-10	S-15	SOIL	GLENMONT, NY	09/02/20 16:00	09/02/20
L2036369-11	DUP01	SOIL	GLENMONT, NY	09/02/20 00:00	09/02/20

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

### 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:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

### Case Narrative (continued)

#### Report Submission

September 17, 2020: This final report includes the results of all requested analyses.

September 10, 2020: 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

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

#### Volatile Organics

L2036369-08: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (29%) and the surrogate recovery for 4-bromofluorobenzene (146%) were outside the acceptance criteria; however, re-analysis achieved similar results: chlorobenzene-d5 (34%), 1,4-dichlorobenzene-d4 (19%), and toluene-d8 (146%). The results of both analyses are reported.

L2036369-10: The internal standard (IS) responses for chlorobenzene-d5 (35%) and 1,4-dichlorobenzene-d4 (24%), and the surrogate recovery for toluene-d8 (135%) were outside the acceptance criteria; however, re-analysis achieved similar results: chlorobenzene-d5 (37%), 1,4-dichlorobenzene-d4 (26%), and toluene-d8 (137%). The results of both analyses are reported.

#### PCBs

L2036369-06 contains peaks which match the retention times for Aroclor 1242, but do not match the area ratios typical for this aroclor. The result for Aroclor 1242 is reported as "weathered".

L2036369-09: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

### Case Narrative (continued)

#### Total Metals

L2036369-01 through -11: 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 WG1406658-3/-4 MS/MSD recoveries for aluminum (354%/630%), calcium (249%/348%), iron (970%/1900%), and magnesium (145%/144%), performed on L2036369-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1406658-3/-4 MS/MSD recoveries, performed on L2036369-04, are outside the acceptance criteria for manganese (134%/170%). A post digestion spike was performed and was within acceptance criteria.

#### Total Organic Carbon

The WG1406703-3 MS recovery for total organic carbon (rep1) (74%) performed on L2036369-04, is outside the 75-125% acceptance criteria, possibly due to sample matrix. The associated SRM recoveries are within criteria, indicating the sample batch was in control, and all sample results were accepted.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/17/20

# ORGANICS

# VOLATILES

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 16:38  
 Analyst: JC  
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	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	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	0.18	J	ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.75	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-01

Date Collected: 09/02/20 13:40

Client ID: S-6

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
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	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	44		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	5.7	J	ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	117		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 16:59  
 Analyst: JC  
 Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	7.2	3.3	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.21	1
Chloroform	ND		ug/kg	2.2	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.33	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.72	0.28	1
Chlorobenzene	ND		ug/kg	0.72	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.7	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	0.24	1
Bromodichloromethane	ND		ug/kg	0.72	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.72	0.23	1
1,1-Dichloropropene	ND		ug/kg	0.72	0.23	1
Bromoform	ND		ug/kg	5.7	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	0.24	1
Benzene	ND		ug/kg	0.72	0.24	1
Toluene	ND		ug/kg	1.4	0.78	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.7	1.3	1
Bromomethane	ND		ug/kg	2.9	0.83	1
Vinyl chloride	ND		ug/kg	1.4	0.48	1
Chloroethane	ND		ug/kg	2.9	0.65	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.20	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-02  
**Client ID:** S-7  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 14:10  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.72	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	2.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.29	1
p/m-Xylene	ND		ug/kg	2.9	0.80	1
o-Xylene	ND		ug/kg	1.4	0.42	1
Xylenes, Total	ND		ug/kg	1.4	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.20	1
Dibromomethane	ND		ug/kg	2.9	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	89		ug/kg	14	6.9	1
Carbon disulfide	ND		ug/kg	14	6.5	1
2-Butanone	16		ug/kg	14	3.2	1
Vinyl acetate	ND		ug/kg	14	3.1	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.9	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.9	0.29	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.40	1
1,3-Dichloropropane	ND		ug/kg	2.9	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	0.19	1
Bromobenzene	ND		ug/kg	2.9	0.21	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.21	1
tert-Butylbenzene	ND		ug/kg	2.9	0.17	1
o-Chlorotoluene	ND		ug/kg	2.9	0.27	1
p-Chlorotoluene	ND		ug/kg	2.9	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.16	1
Naphthalene	ND		ug/kg	5.7	0.93	1
Acrylonitrile	ND		ug/kg	5.7	1.6	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	0.46	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	0.39	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	0.48	1
1,4-Dioxane	ND		ug/kg	110	50.	1
p-Diethylbenzene	ND		ug/kg	2.9	0.25	1
p-Ethyltoluene	ND		ug/kg	2.9	0.55	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.9	0.27	1
Ethyl ether	ND		ug/kg	2.9	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.2	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	117		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 17:19  
 Analyst: JC  
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.1	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	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	35		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	4.9	J	ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.79	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 17:40  
 Analyst: JC  
 Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.6	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	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	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



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
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
Xylenes, Total	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	46		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	7.2	J	ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-04  
**Client ID:** S-9  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 11:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 18:01  
 Analyst: JC  
 Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.6	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	0.17	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	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.66	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.39	1
Xylenes, Total	ND		ug/kg	1.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.32	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	61		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	12	J	ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.6	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.27	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.66	0.18	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
Acrylonitrile	ND		ug/kg	5.3	1.5	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-05  
**Client ID:** S-10  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	110	47.	1
p-Diethylbenzene	ND		ug/kg	2.6	0.24	1
p-Ethyltoluene	ND		ug/kg	2.6	0.51	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.45	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	119		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-06  
 Client ID: S-11  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:05  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 18:22  
 Analyst: JC  
 Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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	1.7	0.16	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	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		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	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	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	1.7	0.15	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-06  
**Client ID:** S-11  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:05  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
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
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	68		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	12		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-06  
**Client ID:** S-11  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:05  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.1	0.19	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	116		70-130



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 18:43  
 Analyst: JC  
 Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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	ND		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	0.14	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
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-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	ND		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	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
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
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	30		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	3.8	J	ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.80	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-07  
**Client ID:** S-12  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.2	0.21	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 19:04  
 Analyst: JC  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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	0.17	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	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	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
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.8	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	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.69	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	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
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	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
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.8	0.77	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.2	0.20	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.40	1
1,4-Dioxane	ND		ug/kg	95	42.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	120		70-130
4-Bromofluorobenzene	146	Q	70-130
Dibromofluoromethane	112		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08 R  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/09/20 10:19  
 Analyst: MV  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	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	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.88	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.5	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-08 R

Date Collected: 09/02/20 14:40

Client ID: S-13

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	3.6		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	1.0	J	ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.26	1
p/m-Xylene	ND		ug/kg	2.5	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.21	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	0.42	J	ug/kg	1.3	0.14	1
Naphthalene	0.83	J	ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08 R  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.41	1
1,2,4-Trichlorobenzene	0.97	J	ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
1,4-Dioxane	ND		ug/kg	100	45.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	146	Q	70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	130		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-09  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 19:25  
 Analyst: JC  
 Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.68	0.27	1
Chlorobenzene	0.33	J	ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.95	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.23	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.68	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.68	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.23	1
Benzene	ND		ug/kg	0.68	0.23	1
Toluene	ND		ug/kg	1.4	0.74	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.7	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.19	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-09  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.68	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.28	1
p/m-Xylene	ND		ug/kg	2.7	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.7	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	52		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	10	J	ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.89	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-09  
**Client ID:** S-14  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:35  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
1,4-Dioxane	ND		ug/kg	110	48.	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	1.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	117		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 19:46  
 Analyst: JC  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.1	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	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.19	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	8.7	J	ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	135	Q	70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	126		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10 R  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/09/20 10:40  
 Analyst: MV  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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	ND		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
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.19	1
1,1-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	0.39	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



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-10 R

Date Collected: 09/02/20 16:00

Client ID: S-15

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	0.90	J	ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,4-Dichlorobenzene	0.25	J	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
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.4	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	9.1	J	ug/kg	12	5.7	1
Carbon disulfide	ND		ug/kg	12	5.4	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.22	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10 R  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.2	0.20	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.22	1
Ethyl ether	ND		ug/kg	2.4	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	137	Q	70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	127		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 09/08/20 20:07  
 Analyst: JC  
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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	4.6	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
1,3-Dichloropropene, Total	ND		ug/kg	0.57	0.18	1
1,1-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

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-11

Date Collected: 09/02/20 00:00

Client ID: DUP01

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
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
Xylenes, Total	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	48		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	7.2	J	ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.6	0.74	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	1.1	0.20	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
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	ND		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	108		70-130

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/08/20 15:33  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1407859-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/08/20 15:33  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1407859-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/08/20 15:33  
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1407859-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	110		70-130



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/09/20 09:37  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10 Batch: WG1408039-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/09/20 09:37  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10 Batch: WG1408039-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 09/09/20 09:37  
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 08,10 Batch: WG1408039-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1407859-3 WG1407859-4								
Methylene chloride	108		105		70-130	3		30
1,1-Dichloroethane	103		100		70-130	3		30
Chloroform	100		97		70-130	3		30
Carbon tetrachloride	96		92		70-130	4		30
1,2-Dichloropropane	97		95		70-130	2		30
Dibromochloromethane	99		101		70-130	2		30
1,1,2-Trichloroethane	94		96		70-130	2		30
Tetrachloroethene	102		100		70-130	2		30
Chlorobenzene	102		101		70-130	1		30
Trichlorofluoromethane	87		86		70-139	1		30
1,2-Dichloroethane	96		97		70-130	1		30
1,1,1-Trichloroethane	100		97		70-130	3		30
Bromodichloromethane	96		94		70-130	2		30
trans-1,3-Dichloropropene	98		99		70-130	1		30
cis-1,3-Dichloropropene	98		98		70-130	0		30
1,1-Dichloropropene	99		96		70-130	3		30
Bromoform	87		86		70-130	1		30
1,1,2,2-Tetrachloroethane	99		99		70-130	0		30
Benzene	99		97		70-130	2		30
Toluene	102		98		70-130	4		30
Ethylbenzene	105		102		70-130	3		30
Chloromethane	91		84		52-130	8		30
Bromomethane	147		139		57-147	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1407859-3 WG1407859-4								
Vinyl chloride	101		96		67-130	5		30
Chloroethane	108		106		50-151	2		30
1,1-Dichloroethene	99		95		65-135	4		30
trans-1,2-Dichloroethene	103		100		70-130	3		30
Trichloroethene	100		99		70-130	1		30
1,2-Dichlorobenzene	105		101		70-130	4		30
1,3-Dichlorobenzene	107		101		70-130	6		30
1,4-Dichlorobenzene	107		100		70-130	7		30
Methyl tert butyl ether	91		95		66-130	4		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	104		102		70-130	2		30
cis-1,2-Dichloroethene	103		99		70-130	4		30
Dibromomethane	96		96		70-130	0		30
Styrene	106		103		70-130	3		30
Dichlorodifluoromethane	74		71		30-146	4		30
Acetone	103		114		54-140	10		30
Carbon disulfide	105		101		59-130	4		30
2-Butanone	91		96		70-130	5		30
Vinyl acetate	87		88		70-130	1		30
4-Methyl-2-pentanone	95		103		70-130	8		30
1,2,3-Trichloropropane	98		97		68-130	1		30
2-Hexanone	90		98		70-130	9		30
Bromochloromethane	101		97		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1407859-3 WG1407859-4								
2,2-Dichloropropane	102		97		70-130	5		30
1,2-Dibromoethane	96		100		70-130	4		30
1,3-Dichloropropane	94		98		69-130	4		30
1,1,1,2-Tetrachloroethane	102		100		70-130	2		30
Bromobenzene	104		97		70-130	7		30
n-Butylbenzene	108		100		70-130	8		30
sec-Butylbenzene	107		100		70-130	7		30
tert-Butylbenzene	107		100		70-130	7		30
o-Chlorotoluene	106		99		70-130	7		30
p-Chlorotoluene	107		99		70-130	8		30
1,2-Dibromo-3-chloropropane	99		102		68-130	3		30
Hexachlorobutadiene	101		96		67-130	5		30
Isopropylbenzene	107		100		70-130	7		30
p-Isopropyltoluene	109		102		70-130	7		30
Naphthalene	97		99		70-130	2		30
Acrylonitrile	94		100		70-130	6		30
n-Propylbenzene	108		101		70-130	7		30
1,2,3-Trichlorobenzene	102		100		70-130	2		30
1,2,4-Trichlorobenzene	103		99		70-130	4		30
1,3,5-Trimethylbenzene	109		101		70-130	8		30
1,2,4-Trimethylbenzene	110		102		70-130	8		30
1,4-Dioxane	122		148	Q	65-136	19		30
p-Diethylbenzene	110		103		70-130	7		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1407859-3 WG1407859-4								
p-Ethyltoluene	110		102		70-130	8		30
1,2,4,5-Tetramethylbenzene	108		103		70-130	5		30
Ethyl ether	94		99		67-130	5		30
trans-1,4-Dichloro-2-butene	99		98		70-130	1		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	98		99		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10 Batch: WG1408039-3 WG1408039-4								
Methylene chloride	98		94		70-130	4		30
1,1-Dichloroethane	94		88		70-130	7		30
Chloroform	92		89		70-130	3		30
Carbon tetrachloride	89		81		70-130	9		30
1,2-Dichloropropane	91		87		70-130	4		30
Dibromochloromethane	94		92		70-130	2		30
1,1,2-Trichloroethane	88		88		70-130	0		30
Tetrachloroethene	94		88		70-130	7		30
Chlorobenzene	95		91		70-130	4		30
Trichlorofluoromethane	90		83		70-139	8		30
1,2-Dichloroethane	91		89		70-130	2		30
1,1,1-Trichloroethane	92		85		70-130	8		30
Bromodichloromethane	90		88		70-130	2		30
trans-1,3-Dichloropropene	91		88		70-130	3		30
cis-1,3-Dichloropropene	92		90		70-130	2		30
1,1-Dichloropropene	90		85		70-130	6		30
Bromoform	83		78		70-130	6		30
1,1,2,2-Tetrachloroethane	94		88		70-130	7		30
Benzene	93		88		70-130	6		30
Toluene	92		87		70-130	6		30
Ethylbenzene	96		90		70-130	6		30
Chloromethane	77		71		52-130	8		30
Bromomethane	136		127		57-147	7		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10 Batch: WG1408039-3 WG1408039-4								
Vinyl chloride	88		82		67-130	7		30
Chloroethane	103		94		50-151	9		30
1,1-Dichloroethene	88		83		65-135	6		30
trans-1,2-Dichloroethene	94		89		70-130	5		30
Trichloroethene	94		89		70-130	5		30
1,2-Dichlorobenzene	102		91		70-130	11		30
1,3-Dichlorobenzene	102		91		70-130	11		30
1,4-Dichlorobenzene	102		91		70-130	11		30
Methyl tert butyl ether	86		87		66-130	1		30
p/m-Xylene	96		91		70-130	5		30
o-Xylene	96		91		70-130	5		30
cis-1,2-Dichloroethene	94		89		70-130	5		30
Dibromomethane	90		88		70-130	2		30
Styrene	98		93		70-130	5		30
Dichlorodifluoromethane	75		69		30-146	8		30
Acetone	85		88		54-140	3		30
Carbon disulfide	92		86		59-130	7		30
2-Butanone	81		78		70-130	4		30
Vinyl acetate	82		82		70-130	0		30
4-Methyl-2-pentanone	88		92		70-130	4		30
1,2,3-Trichloropropane	93		92		68-130	1		30
2-Hexanone	79		83		70-130	5		30
Bromochloromethane	91		90		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10 Batch: WG1408039-3 WG1408039-4								
2,2-Dichloropropane	92		85		70-130	8		30
1,2-Dibromoethane	93		91		70-130	2		30
1,3-Dichloropropane	90		90		69-130	0		30
1,1,1,2-Tetrachloroethane	96		93		70-130	3		30
Bromobenzene	98		89		70-130	10		30
n-Butylbenzene	101		87		70-130	15		30
sec-Butylbenzene	101		87		70-130	15		30
tert-Butylbenzene	100		88		70-130	13		30
o-Chlorotoluene	117		103		70-130	13		30
p-Chlorotoluene	102		89		70-130	14		30
1,2-Dibromo-3-chloropropane	93		89		68-130	4		30
Hexachlorobutadiene	97		84		67-130	14		30
Isopropylbenzene	101		88		70-130	14		30
p-Isopropyltoluene	101		89		70-130	13		30
Naphthalene	93		88		70-130	6		30
Acrylonitrile	82		85		70-130	4		30
n-Propylbenzene	101		88		70-130	14		30
1,2,3-Trichlorobenzene	98		90		70-130	9		30
1,2,4-Trichlorobenzene	98		89		70-130	10		30
1,3,5-Trimethylbenzene	102		89		70-130	14		30
1,2,4-Trimethylbenzene	103		90		70-130	13		30
1,4-Dioxane	94		103		65-136	9		30
p-Diethylbenzene	102		90		70-130	13		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 08,10 Batch: WG1408039-3 WG1408039-4								
p-Ethyltoluene	102		90		70-130	13		30
1,2,4,5-Tetramethylbenzene	105		92		70-130	13		30
Ethyl ether	89		89		67-130	0		30
trans-1,4-Dichloro-2-butene	90		85		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		97		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	102		98		70-130
Dibromofluoromethane	99		97		70-130

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1407859-6 WG1407859-7 QC Sample: L2036369-04 Client ID: S-9												
Methylene chloride	ND	126	120	98		110	90		70-130	8		30
1,1-Dichloroethane	ND	126	130	102		120	92		70-130	10		30
Chloroform	ND	126	120	95		110	88		70-130	8		30
Carbon tetrachloride	ND	126	120	98		120	91		70-130	8		30
1,2-Dichloropropane	ND	126	110	88		110	86		70-130	2		30
Dibromochloromethane	ND	126	97	77		98	78		70-130	1		30
1,1,2-Trichloroethane	ND	126	97	77		100	82		70-130	6		30
Tetrachloroethene	ND	126	110	90		100	82		70-130	8		30
Chlorobenzene	ND	126	97	77		86	68	Q	70-130	12		30
Trichlorofluoromethane	ND	126	160	127		140	111		70-139	13		30
1,2-Dichloroethane	ND	126	100	82		99	78		70-130	4		30
1,1,1-Trichloroethane	ND	126	140	110		130	100		70-130	9		30
Bromodichloromethane	ND	126	100	82		99	78		70-130	4		30
trans-1,3-Dichloropropene	ND	126	79	62	Q	76	60	Q	70-130	3		30
cis-1,3-Dichloropropene	ND	126	89	71		86	68	Q	70-130	4		30
1,1-Dichloropropene	ND	126	130	101		120	94		70-130	7		30
Bromoform	ND	126	70	55	Q	75	60	Q	70-130	8		30
1,1,2,2-Tetrachloroethane	ND	126	87	69	Q	100	79		70-130	13		30
Benzene	ND	126	120	94		110	89		70-130	4		30
Toluene	ND	126	110	88		100	81		70-130	8		30
Ethylbenzene	ND	126	110	85		93	73		70-130	15		30
Chloromethane	ND	126	110	91		100	80		52-130	12		30
Bromomethane	ND	126	180	141		150	118		57-147	18		30

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1407859-6 WG1407859-7 QC Sample: L2036369-04 Client ID: S-9												
Vinyl chloride	ND	126	150	116		130	102		67-130	12		30
Chloroethane	ND	126	150	118		130	106		50-151	11		30
1,1-Dichloroethene	ND	126	140	111		130	100		65-135	11		30
trans-1,2-Dichloroethene	ND	126	120	95		110	86		70-130	10		30
Trichloroethene	ND	126	120	91		110	86		70-130	6		30
1,2-Dichlorobenzene	ND	126	74	58	Q	62	49	Q	70-130	17		30
1,3-Dichlorobenzene	ND	126	71	56	Q	57	45	Q	70-130	22		30
1,4-Dichlorobenzene	ND	126	67	53	Q	53	42	Q	70-130	24		30
Methyl tert butyl ether	ND	126	100	83		120	91		66-130	10		30
p/m-Xylene	ND	252	210	83		180	70		70-130	16		30
o-Xylene	ND	252	220	85		180	73		70-130	16		30
cis-1,2-Dichloroethene	ND	126	120	91		110	84		70-130	8		30
Dibromomethane	ND	126	97	77		92	73		70-130	5		30
Styrene	ND	252	180	72		140	55	Q	70-130	26		30
Dichlorodifluoromethane	ND	126	150	118		130	102		30-146	14		30
Acetone	46	126	160	87		160	93		54-140	5		30
Carbon disulfide	ND	126	130	99		110	89		59-130	11		30
2-Butanone	7.2J	126	82	65	Q	110	86		70-130	28		30
Vinyl acetate	ND	126	57	46	Q	52	41	Q	70-130	10		30
4-Methyl-2-pentanone	ND	126	92	73		110	88		70-130	19		30
1,2,3-Trichloropropane	ND	126	87	69		99	79		68-130	13		30
2-Hexanone	ND	126	78	62	Q	92	73		70-130	17		30
Bromochloromethane	ND	126	110	88		100	81		70-130	8		30

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1407859-6 WG1407859-7 QC Sample: L2036369-04 Client ID: S-9												
2,2-Dichloropropane	ND	126	130	106		120	97		70-130	9		30
1,2-Dibromoethane	ND	126	85	68	Q	86	68	Q	70-130	0		30
1,3-Dichloropropane	ND	126	94	75		96	76		69-130	2		30
1,1,1,2-Tetrachloroethane	ND	126	110	84		110	83		70-130	1		30
Bromobenzene	ND	126	80	64	Q	73	58	Q	70-130	10		30
n-Butylbenzene	ND	126	73	58	Q	53	42	Q	70-130	31	Q	30
sec-Butylbenzene	ND	126	93	74		78	61	Q	70-130	18		30
tert-Butylbenzene	ND	126	100	79		88	70		70-130	13		30
o-Chlorotoluene	ND	126	110	83		92	72		70-130	14		30
p-Chlorotoluene	ND	126	79	63	Q	64	50	Q	70-130	22		30
1,2-Dibromo-3-chloropropane	ND	126	78	62	Q	87	69		68-130	12		30
Hexachlorobutadiene	ND	126	58	46	Q	39	31	Q	67-130	39	Q	30
Isopropylbenzene	ND	126	100	83		94	75		70-130	10		30
p-Isopropyltoluene	ND	126	87	69	Q	69	55	Q	70-130	23		30
Naphthalene	ND	126	59	47	Q	52	41	Q	70-130	13		30
Acrylonitrile	ND	126	94	74		94	74		70-130	0		30
n-Propylbenzene	ND	126	93	74		77	61	Q	70-130	18		30
1,2,3-Trichlorobenzene	ND	126	48	38	Q	38	30	Q	70-130	23		30
1,2,4-Trichlorobenzene	ND	126	45	35	Q	35	28	Q	70-130	24		30
1,3,5-Trimethylbenzene	ND	126	93	74		80	63	Q	70-130	15		30
1,2,4-Trimethylbenzene	ND	126	89	70		74	59	Q	70-130	18		30
1,4-Dioxane	ND	6290	7400	117		7000	110		65-136	6		30
p-Diethylbenzene	ND	126	77	61	Q	57	45	Q	70-130	31	Q	30

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1407859-6 WG1407859-7 QC Sample: L2036369-04 Client ID: S-9												
p-Ethyltoluene	ND	126	91	72		74	59	Q	70-130	20		30
1,2,4,5-Tetramethylbenzene	ND	126	72	57	Q	56	45	Q	70-130	25		30
Ethyl ether	ND	126	110	88		110	88		67-130	0		30
trans-1,4-Dichloro-2-butene	ND	126	54	43	Q	54	43	Q	70-130	1		30

<b>Surrogate</b>	<b>MS % Recovery</b>	<b>Qualifier</b>	<b>MSD % Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>
1,2-Dichloroethane-d4	99		97		70-130
4-Bromofluorobenzene	96		100		70-130
Dibromofluoromethane	100		96		70-130
Toluene-d8	102		101		70-130

# SEMIVOLATILES



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 15:56  
 Analyst: SZ  
 Percent Solids: 76%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	54	J	ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	76.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	49	J	ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	45	J	ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	39	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	51	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	91.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	46		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 12:04  
 Analyst: SZ  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	200	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	240	28.	1
Hexachlorobenzene	ND		ug/kg	150	27.	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	33.	1
2-Chloronaphthalene	ND		ug/kg	240	24.	1
1,2-Dichlorobenzene	ND		ug/kg	240	44.	1
1,3-Dichlorobenzene	ND		ug/kg	240	42.	1
1,4-Dichlorobenzene	ND		ug/kg	240	43.	1
3,3'-Dichlorobenzidine	ND		ug/kg	240	65.	1
2,4-Dinitrotoluene	ND		ug/kg	240	49.	1
2,6-Dinitrotoluene	ND		ug/kg	240	42.	1
Fluoranthene	ND		ug/kg	150	28.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	240	26.	1
4-Bromophenyl phenyl ether	ND		ug/kg	240	37.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	290	42.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	260	24.	1
Hexachlorobutadiene	ND		ug/kg	240	36.	1
Hexachlorocyclopentadiene	ND		ug/kg	700	220	1
Hexachloroethane	ND		ug/kg	200	40.	1
Isophorone	ND		ug/kg	220	32.	1
Naphthalene	ND		ug/kg	240	30.	1
Nitrobenzene	ND		ug/kg	220	36.	1
NDPA/DPA	ND		ug/kg	200	28.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	240	38.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	240	85.	1
Butyl benzyl phthalate	ND		ug/kg	240	62.	1
Di-n-butylphthalate	ND		ug/kg	240	46.	1
Di-n-octylphthalate	ND		ug/kg	240	83.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	240	23.	1
Dimethyl phthalate	ND		ug/kg	240	51.	1
Benzo(a)anthracene	ND		ug/kg	150	28.	1
Benzo(a)pyrene	ND		ug/kg	200	60.	1
Benzo(b)fluoranthene	ND		ug/kg	150	41.	1
Benzo(k)fluoranthene	ND		ug/kg	150	39.	1
Chrysene	ND		ug/kg	150	25.	1
Acenaphthylene	ND		ug/kg	200	38.	1
Anthracene	ND		ug/kg	150	48.	1
Benzo(ghi)perylene	ND		ug/kg	200	29.	1
Fluorene	ND		ug/kg	240	24.	1
Phenanthrene	ND		ug/kg	150	30.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	28.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	34.	1
Pyrene	ND		ug/kg	150	24.	1
Biphenyl	ND		ug/kg	560	57.	1
4-Chloroaniline	ND		ug/kg	240	45.	1
2-Nitroaniline	ND		ug/kg	240	47.	1
3-Nitroaniline	ND		ug/kg	240	46.	1
4-Nitroaniline	ND		ug/kg	240	100	1
Dibenzofuran	ND		ug/kg	240	23.	1
2-Methylnaphthalene	ND		ug/kg	290	30.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	240	26.	1
Acetophenone	ND		ug/kg	240	30.	1
Benzyl Alcohol	ND		ug/kg	240	75.	1
Carbazole	ND		ug/kg	240	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	44		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 11:41  
 Analyst: SZ  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	75.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	51.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	92.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	260	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	57		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 11:18  
 Analyst: SZ  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-04  
**Client ID:** S-9  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 11:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	48		18-120



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 15:33  
 Analyst: SZ  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	27	J	ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-05  
**Client ID:** S-10  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	27	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	92.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	106		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	70		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-06  
 Client ID: S-11  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:05  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 16:20  
 Analyst: SZ  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	74	J	ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-06  
**Client ID:** S-11  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:05  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	56	J	ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	55.	1
Benzo(b)fluoranthene	63	J	ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	45	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	28	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	45	J	ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	74	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	49		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 16:18  
 Analyst: IM  
 Percent Solids: 72%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	180	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	230	26.	1
Hexachlorobenzene	ND		ug/kg	140	26.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	31.	1
2-Chloronaphthalene	ND		ug/kg	230	23.	1
1,2-Dichlorobenzene	ND		ug/kg	230	41.	1
1,3-Dichlorobenzene	ND		ug/kg	230	39.	1
1,4-Dichlorobenzene	ND		ug/kg	230	40.	1
3,3'-Dichlorobenzidine	ND		ug/kg	230	61.	1
2,4-Dinitrotoluene	ND		ug/kg	230	46.	1
2,6-Dinitrotoluene	ND		ug/kg	230	39.	1
Fluoranthene	ND		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	230	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	230	35.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	39.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	250	23.	1
Hexachlorobutadiene	ND		ug/kg	230	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	650	210	1
Hexachloroethane	ND		ug/kg	180	37.	1
Isophorone	ND		ug/kg	200	30.	1
Naphthalene	ND		ug/kg	230	28.	1
Nitrobenzene	ND		ug/kg	200	34.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	230	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	230	79.	1
Butyl benzyl phthalate	ND		ug/kg	230	58.	1
Di-n-butylphthalate	ND		ug/kg	230	43.	1
Di-n-octylphthalate	ND		ug/kg	230	78.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-07  
**Client ID:** S-12  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	230	21.	1
Dimethyl phthalate	ND		ug/kg	230	48.	1
Benzo(a)anthracene	ND		ug/kg	140	26.	1
Benzo(a)pyrene	ND		ug/kg	180	56.	1
Benzo(b)fluoranthene	ND		ug/kg	140	38.	1
Benzo(k)fluoranthene	ND		ug/kg	140	36.	1
Chrysene	ND		ug/kg	140	24.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	ND		ug/kg	180	27.	1
Fluorene	ND		ug/kg	230	22.	1
Phenanthrene	ND		ug/kg	140	28.	1
Dibenzo(a,h)anthracene	ND		ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	32.	1
Pyrene	ND		ug/kg	140	23.	1
Biphenyl	ND		ug/kg	520	53.	1
4-Chloroaniline	ND		ug/kg	230	42.	1
2-Nitroaniline	ND		ug/kg	230	44.	1
3-Nitroaniline	ND		ug/kg	230	43.	1
4-Nitroaniline	ND		ug/kg	230	94.	1
Dibenzofuran	ND		ug/kg	230	22.	1
2-Methylnaphthalene	ND		ug/kg	270	28.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	230	24.	1
Acetophenone	ND		ug/kg	230	28.	1
Benzyl Alcohol	ND		ug/kg	230	70.	1
Carbazole	ND		ug/kg	230	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	48		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 16:48  
 Analyst: IM  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	39.	1
1,3-Dichlorobenzene	ND		ug/kg	210	37.	1
1,4-Dichlorobenzene	ND		ug/kg	210	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	43.	1
2,6-Dinitrotoluene	ND		ug/kg	210	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	190	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	74.	1
Butyl benzyl phthalate	ND		ug/kg	210	54.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	73.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	210	39.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	89.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	27.	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	62		18-120



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-09  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/10/20 01:14  
 Analyst: WR  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	200	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	29.	1
Hexachlorobenzene	ND		ug/kg	150	28.	1
Bis(2-chloroethyl)ether	ND		ug/kg	220	34.	1
2-Chloronaphthalene	ND		ug/kg	250	25.	1
1,2-Dichlorobenzene	ND		ug/kg	250	45.	1
1,3-Dichlorobenzene	ND		ug/kg	250	43.	1
1,4-Dichlorobenzene	ND		ug/kg	250	44.	1
3,3'-Dichlorobenzidine	ND		ug/kg	250	67.	1
2,4-Dinitrotoluene	ND		ug/kg	250	50.	1
2,6-Dinitrotoluene	ND		ug/kg	250	43.	1
Fluoranthene	72	J	ug/kg	150	29.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	250	27.	1
4-Bromophenyl phenyl ether	ND		ug/kg	250	38.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	300	43.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	270	25.	1
Hexachlorobutadiene	ND		ug/kg	250	37.	1
Hexachlorocyclopentadiene	ND		ug/kg	720	230	1
Hexachloroethane	ND		ug/kg	200	40.	1
Isophorone	ND		ug/kg	220	32.	1
Naphthalene	ND		ug/kg	250	30.	1
Nitrobenzene	ND		ug/kg	220	37.	1
NDPA/DPA	ND		ug/kg	200	28.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	250	39.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	250	87.	1
Butyl benzyl phthalate	ND		ug/kg	250	63.	1
Di-n-butylphthalate	ND		ug/kg	250	48.	1
Di-n-octylphthalate	ND		ug/kg	250	85.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-09  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	250	23.	1
Dimethyl phthalate	ND		ug/kg	250	53.	1
Benzo(a)anthracene	58	J	ug/kg	150	28.	1
Benzo(a)pyrene	ND		ug/kg	200	61.	1
Benzo(b)fluoranthene	51	J	ug/kg	150	42.	1
Benzo(k)fluoranthene	ND		ug/kg	150	40.	1
Chrysene	43	J	ug/kg	150	26.	1
Acenaphthylene	ND		ug/kg	200	39.	1
Anthracene	ND		ug/kg	150	49.	1
Benzo(ghi)perylene	ND		ug/kg	200	29.	1
Fluorene	ND		ug/kg	250	24.	1
Phenanthrene	ND		ug/kg	150	30.	1
Dibenzo(a,h)anthracene	ND		ug/kg	150	29.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	200	35.	1
Pyrene	66	J	ug/kg	150	25.	1
Biphenyl	ND		ug/kg	570	58.	1
4-Chloroaniline	ND		ug/kg	250	46.	1
2-Nitroaniline	ND		ug/kg	250	48.	1
3-Nitroaniline	ND		ug/kg	250	47.	1
4-Nitroaniline	ND		ug/kg	250	100	1
Dibenzofuran	ND		ug/kg	250	24.	1
2-Methylnaphthalene	ND		ug/kg	300	30.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	250	26.	1
Acetophenone	ND		ug/kg	250	31.	1
Benzyl Alcohol	ND		ug/kg	250	77.	1
Carbazole	ND		ug/kg	250	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	66		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 17:12  
 Analyst: IM  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	220	21.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	57.	1
2,4-Dinitrotoluene	ND		ug/kg	220	43.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	ND		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	190	28.	1
Naphthalene	ND		ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	190	32.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	54.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	73.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-10  
**Client ID:** S-15  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 16:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	45.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	490	50.	1
4-Chloroaniline	ND		ug/kg	220	39.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	89.	1
Dibenzofuran	ND		ug/kg	220	20.	1
2-Methylnaphthalene	ND		ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	22.	1
Acetophenone	ND		ug/kg	220	27.	1
Benzyl Alcohol	ND		ug/kg	220	66.	1
Carbazole	ND		ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	73		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 09/04/20 17:36  
 Analyst: IM  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	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	34.	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	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	69.	1

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
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
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	25.	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	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	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	47		18-120

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/04/20 10:08  
Analyst: WR

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1406373-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
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.

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/04/20 10:08  
Analyst: WR

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1406373-1					
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.
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.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D  
Analytical Date: 09/04/20 10:08  
Analyst: WR

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-11 Batch: WG1406373-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	63		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1406373-2 WG1406373-3								
Acenaphthene	65		72		31-137	10		50
1,2,4-Trichlorobenzene	68		75		38-107	10		50
Hexachlorobenzene	57		64		40-140	12		50
Bis(2-chloroethyl)ether	68		78		40-140	14		50
2-Chloronaphthalene	69		76		40-140	10		50
1,2-Dichlorobenzene	66		74		40-140	11		50
1,3-Dichlorobenzene	66		73		40-140	10		50
1,4-Dichlorobenzene	64		71		28-104	10		50
3,3'-Dichlorobenzidine	57		60		40-140	5		50
2,4-Dinitrotoluene	76		82		40-132	8		50
2,6-Dinitrotoluene	76		81		40-140	6		50
Fluoranthene	69		74		40-140	7		50
4-Chlorophenyl phenyl ether	69		75		40-140	8		50
4-Bromophenyl phenyl ether	63		68		40-140	8		50
Bis(2-chloroisopropyl)ether	65		73		40-140	12		50
Bis(2-chloroethoxy)methane	76		86		40-117	12		50
Hexachlorobutadiene	64		68		40-140	6		50
Hexachlorocyclopentadiene	66		71		40-140	7		50
Hexachloroethane	61		68		40-140	11		50
Isophorone	73		81		40-140	10		50
Naphthalene	68		73		40-140	7		50
Nitrobenzene	80		89		40-140	11		50
NDPA/DPA	69		76		36-157	10		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1406373-2 WG1406373-3								
n-Nitrosodi-n-propylamine	77		85		32-121	10		50
Bis(2-ethylhexyl)phthalate	80		88		40-140	10		50
Butyl benzyl phthalate	78		82		40-140	5		50
Di-n-butylphthalate	75		80		40-140	6		50
Di-n-octylphthalate	81		90		40-140	11		50
Diethyl phthalate	68		74		40-140	8		50
Dimethyl phthalate	70		75		40-140	7		50
Benzo(a)anthracene	77		84		40-140	9		50
Benzo(a)pyrene	67		75		40-140	11		50
Benzo(b)fluoranthene	80		88		40-140	10		50
Benzo(k)fluoranthene	60		65		40-140	8		50
Chrysene	65		72		40-140	10		50
Acenaphthylene	73		79		40-140	8		50
Anthracene	72		76		40-140	5		50
Benzo(ghi)perylene	69		78		40-140	12		50
Fluorene	68		74		40-140	8		50
Phenanthrene	70		74		40-140	6		50
Dibenzo(a,h)anthracene	74		82		40-140	10		50
Indeno(1,2,3-cd)pyrene	74		82		40-140	10		50
Pyrene	68		75		35-142	10		50
Biphenyl	70		76		37-127	8		50
4-Chloroaniline	50		51		40-140	2		50
2-Nitroaniline	75		80		47-134	6		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1406373-2 WG1406373-3								
3-Nitroaniline	64		68		26-129	6		50
4-Nitroaniline	69		77		41-125	11		50
Dibenzofuran	68		74		40-140	8		50
2-Methylnaphthalene	76		81		40-140	6		50
1,2,4,5-Tetrachlorobenzene	64		69		40-117	8		50
Acetophenone	76		85		14-144	11		50
Benzyl Alcohol	88		95		40-140	8		50
Carbazole	74		79		54-128	7		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	69		75		25-120
Phenol-d6	72		78		10-120
Nitrobenzene-d5	81		89		23-120
2-Fluorobiphenyl	74		80		30-120
2,4,6-Tribromophenol	54		57		10-136
4-Terphenyl-d14	66		70		18-120

## Matrix Spike Analysis

### Batch Quality Control

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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): 01-11 QC Batch ID: WG1406373-6 WG1406373-7 QC Sample: L2036369-04 Client ID: S-9												
Acenaphthene	ND	1750	1300	74		1100	62		31-137	17		50
1,2,4-Trichlorobenzene	ND	1750	1400	80		1200	68		38-107	15		50
Hexachlorobenzene	ND	1750	1100	63		990	56		40-140	11		50
Bis(2-chloroethyl)ether	ND	1750	1400	80		1300	74		40-140	7		50
2-Chloronaphthalene	ND	1750	1400	80		1200	68		40-140	15		50
1,2-Dichlorobenzene	ND	1750	1400	80		1200	68		40-140	15		50
1,3-Dichlorobenzene	ND	1750	1400	80		1200	68		40-140	15		50
1,4-Dichlorobenzene	ND	1750	1300	74		1200	68		28-104	8		50
3,3'-Dichlorobenzidine	ND	1750	1100	63		960	54		40-140	14		50
2,4-Dinitrotoluene	ND	1750	1300	74		1100	62		40-132	17		50
2,6-Dinitrotoluene	ND	1750	1300	74		1100	62		40-140	17		50
Fluoranthene	ND	1750	1200	68		1100	62		40-140	9		50
4-Chlorophenyl phenyl ether	ND	1750	1300	74		1200	68		40-140	8		50
4-Bromophenyl phenyl ether	ND	1750	1200	68		1100	62		40-140	9		50
Bis(2-chloroisopropyl)ether	ND	1750	1400	80		1200	68		40-140	15		50
Bis(2-chloroethoxy)methane	ND	1750	1600	91		1400	79		40-117	13		50
Hexachlorobutadiene	ND	1750	1200	68		1100	62		40-140	9		50
Hexachlorocyclopentadiene	ND	1750	1100	63		880	50		40-140	22		50
Hexachloroethane	ND	1750	1200	68		1100	62		40-140	9		50
Isophorone	ND	1750	1500	86		1300	74		40-140	14		50
Naphthalene	ND	1750	1400	80		1200	68		40-140	15		50
Nitrobenzene	ND	1750	1600	91		1400	79		40-140	13		50
NDPA/DPA	ND	1750	1300	74		1200	68		36-157	8		50

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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): 01-11 QC Batch ID: WG1406373-6 WG1406373-7 QC Sample: L2036369-04 Client ID: S-9												
n-Nitrosodi-n-propylamine	ND	1750	1500	86		1400	79		32-121	7		50
Bis(2-ethylhexyl)phthalate	ND	1750	1500	86		1300	74		40-140	14		50
Butyl benzyl phthalate	ND	1750	1400	80		1200	68		40-140	15		50
Di-n-butylphthalate	ND	1750	1400	80		1200	68		40-140	15		50
Di-n-octylphthalate	ND	1750	1500	86		1400	79		40-140	7		50
Diethyl phthalate	ND	1750	1200	68		1100	62		40-140	9		50
Dimethyl phthalate	ND	1750	1400	80		1200	68		40-140	15		50
Benzo(a)anthracene	ND	1750	1400	80		1200	68		40-140	15		50
Benzo(a)pyrene	ND	1750	1300	74		1100	62		40-140	17		50
Benzo(b)fluoranthene	ND	1750	1500	86		1300	74		40-140	14		50
Benzo(k)fluoranthene	ND	1750	1200	68		990	56		40-140	19		50
Chrysene	ND	1750	1200	68		1100	62		40-140	9		50
Acenaphthylene	ND	1750	1400	80		1300	74		40-140	7		50
Anthracene	ND	1750	1300	74		1200	68		40-140	8		50
Benzo(ghi)perylene	ND	1750	1300	74		1200	68		40-140	8		50
Fluorene	ND	1750	1300	74		1100	62		40-140	17		50
Phenanthrene	ND	1750	1200	68		1100	62		40-140	9		50
Dibenzo(a,h)anthracene	ND	1750	1400	80		1200	68		40-140	15		50
Indeno(1,2,3-cd)pyrene	ND	1750	1400	80		1200	68		40-140	15		50
Pyrene	ND	1750	1200	68		1100	62		35-142	9		50
Biphenyl	ND	1750	1400	80		1200	68		37-127	15		50
4-Chloroaniline	ND	1750	1200	68		750	42		40-140	46		50
2-Nitroaniline	ND	1750	1600	91		1400	79		47-134	13		50

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

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): 01-11 QC Batch ID: WG1406373-6 WG1406373-7 QC Sample: L2036369-04 Client ID: S-9												
3-Nitroaniline	ND	1750	1200	68		1100	62		26-129	9		50
4-Nitroaniline	ND	1750	1600	91		1300	74		41-125	21		50
Dibenzofuran	ND	1750	1300	74		1200	68		40-140	8		50
2-Methylnaphthalene	ND	1750	1500	86		1400	79		40-140	7		50
1,2,4,5-Tetrachlorobenzene	ND	1750	1300	74		1100	62		40-117	17		50
Acetophenone	ND	1750	1600	91		1400	79		14-144	13		50
Benzyl Alcohol	ND	1750	1600	91		1400	79		40-140	13		50
Carbazole	ND	1750	1300	74		1200	68		54-128	8		50

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	54		49		10-136
2-Fluorobiphenyl	81		71		30-120
2-Fluorophenol	75		67		25-120
4-Terphenyl-d14	65		58		18-120
Nitrobenzene-d5	87		78		23-120
Phenol-d6	76		67		10-120



# PCBS



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:04  
 Analyst: CW  
 Percent Solids: 76%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	42.0	3.73	1	A
Aroclor 1221	ND		ug/kg	42.0	4.21	1	A
Aroclor 1232	ND		ug/kg	42.0	8.91	1	A
Aroclor 1242	71.1		ug/kg	42.0	5.66	1	A
Aroclor 1248	ND		ug/kg	42.0	6.30	1	A
Aroclor 1254	38.4	J	ug/kg	42.0	4.60	1	A
Aroclor 1260	ND		ug/kg	42.0	7.76	1	A
Aroclor 1262	ND		ug/kg	42.0	5.34	1	A
Aroclor 1268	ND		ug/kg	42.0	4.35	1	A
PCBs, Total	110	J	ug/kg	42.0	3.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	82		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:12  
 Analyst: CW  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	49.8	4.42	1	A
Aroclor 1221	ND		ug/kg	49.8	4.99	1	A
Aroclor 1232	ND		ug/kg	49.8	10.6	1	A
Aroclor 1242	17.5	J	ug/kg	49.8	6.71	1	A
Aroclor 1248	ND		ug/kg	49.8	7.46	1	A
Aroclor 1254	ND		ug/kg	49.8	5.44	1	A
Aroclor 1260	ND		ug/kg	49.8	9.20	1	A
Aroclor 1262	ND		ug/kg	49.8	6.32	1	A
Aroclor 1268	ND		ug/kg	49.8	5.16	1	A
PCBs, Total	17.5	J	ug/kg	49.8	4.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	42		30-150	B
Decachlorobiphenyl	45		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:19  
 Analyst: CW  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	43.1	3.82	1	A
Aroclor 1221	ND		ug/kg	43.1	4.32	1	A
Aroclor 1232	ND		ug/kg	43.1	9.13	1	A
Aroclor 1242	ND		ug/kg	43.1	5.81	1	A
Aroclor 1248	ND		ug/kg	43.1	6.46	1	A
Aroclor 1254	ND		ug/kg	43.1	4.71	1	A
Aroclor 1260	ND		ug/kg	43.1	7.96	1	A
Aroclor 1262	ND		ug/kg	43.1	5.47	1	A
Aroclor 1268	ND		ug/kg	43.1	4.46	1	A
PCBs, Total	ND		ug/kg	43.1	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	80		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 16:13  
 Analyst: HT  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	42.1	3.74	1	A
Aroclor 1221	ND		ug/kg	42.1	4.22	1	A
Aroclor 1232	ND		ug/kg	42.1	8.93	1	A
Aroclor 1242	ND		ug/kg	42.1	5.68	1	A
Aroclor 1248	ND		ug/kg	42.1	6.32	1	A
Aroclor 1254	ND		ug/kg	42.1	4.61	1	A
Aroclor 1260	ND		ug/kg	42.1	7.78	1	A
Aroclor 1262	ND		ug/kg	42.1	5.35	1	A
Aroclor 1268	ND		ug/kg	42.1	4.36	1	A
PCBs, Total	ND		ug/kg	42.1	3.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	70		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:26  
 Analyst: CW  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	3.82	1	A
Aroclor 1221	ND		ug/kg	43.0	4.31	1	A
Aroclor 1232	ND		ug/kg	43.0	9.12	1	A
Aroclor 1242	330		ug/kg	43.0	5.80	1	A
Aroclor 1248	ND		ug/kg	43.0	6.45	1	A
Aroclor 1254	86.6		ug/kg	43.0	4.71	1	A
Aroclor 1260	38.2	J	ug/kg	43.0	7.95	1	A
Aroclor 1262	ND		ug/kg	43.0	5.46	1	A
Aroclor 1268	ND		ug/kg	43.0	4.46	1	A
PCBs, Total	455	J	ug/kg	43.0	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	86		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-06 D  
 Client ID: S-11  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:05  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 21:44  
 Analyst: CW  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	214	19.0	5	A
Aroclor 1221	ND		ug/kg	214	21.4	5	A
Aroclor 1232	ND		ug/kg	214	45.4	5	A
Aroclor 1242	1480		ug/kg	214	28.8	5	A
Aroclor 1248	ND		ug/kg	214	32.1	5	A
Aroclor 1254	ND		ug/kg	214	23.4	5	A
Aroclor 1260	ND		ug/kg	214	39.5	5	A
Aroclor 1262	ND		ug/kg	214	27.2	5	A
Aroclor 1268	ND		ug/kg	214	22.2	5	A
PCBs, Total	1480		ug/kg	214	19.0	5	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	76		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:41  
 Analyst: CW  
 Percent Solids: 72%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	44.2	3.93	1	A
Aroclor 1221	ND		ug/kg	44.2	4.43	1	A
Aroclor 1232	ND		ug/kg	44.2	9.38	1	A
Aroclor 1242	9.99	J	ug/kg	44.2	5.96	1	A
Aroclor 1248	ND		ug/kg	44.2	6.64	1	A
Aroclor 1254	ND		ug/kg	44.2	4.84	1	A
Aroclor 1260	ND		ug/kg	44.2	8.18	1	A
Aroclor 1262	ND		ug/kg	44.2	5.62	1	A
Aroclor 1268	ND		ug/kg	44.2	4.58	1	A
PCBs, Total	9.99	J	ug/kg	44.2	3.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	82		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 17:48  
 Analyst: CW  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.11	1	A
Aroclor 1232	ND		ug/kg	41.0	8.69	1	A
Aroclor 1242	ND		ug/kg	41.0	5.53	1	B
Aroclor 1248	ND		ug/kg	41.0	6.15	1	A
Aroclor 1254	ND		ug/kg	41.0	4.48	1	A
Aroclor 1260	ND		ug/kg	41.0	7.58	1	A
Aroclor 1262	ND		ug/kg	41.0	5.21	1	A
Aroclor 1268	ND		ug/kg	41.0	4.25	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-09 D  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/05/20 11:14  
 Analyst: JM  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	954	84.7	20	A
Aroclor 1221	ND		ug/kg	954	95.6	20	A
Aroclor 1232	ND		ug/kg	954	202.	20	A
Aroclor 1242	8360		ug/kg	954	128.	20	B
Aroclor 1248	ND		ug/kg	954	143.	20	A
Aroclor 1254	ND		ug/kg	954	104.	20	A
Aroclor 1260	ND		ug/kg	954	176.	20	A
Aroclor 1262	ND		ug/kg	954	121.	20	A
Aroclor 1268	ND		ug/kg	954	98.8	20	A
PCBs, Total	8360		ug/kg	954	84.7	20	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 09/04/20 18:10  
 Analyst: CW  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:58  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 09/04/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	43.0	3.82	1	A
Aroclor 1221	ND		ug/kg	43.0	4.30	1	A
Aroclor 1232	ND		ug/kg	43.0	9.11	1	A
Aroclor 1242	ND		ug/kg	43.0	5.79	1	A
Aroclor 1248	ND		ug/kg	43.0	6.44	1	A
Aroclor 1254	ND		ug/kg	43.0	4.70	1	A
Aroclor 1260	ND		ug/kg	43.0	7.94	1	A
Aroclor 1262	ND		ug/kg	43.0	5.46	1	A
Aroclor 1268	ND		ug/kg	43.0	4.45	1	A
PCBs, Total	ND		ug/kg	43.0	3.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	81		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-11  
**Client ID:** DUP01  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 00:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 09/04/20 18:17  
**Analyst:** CW  
**Percent Solids:** 81%

**Extraction Method:** EPA 3546  
**Extraction Date:** 09/03/20 21:58  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 09/04/20  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	39.3	3.49	1	A
Aroclor 1221	ND		ug/kg	39.3	3.94	1	A
Aroclor 1232	ND		ug/kg	39.3	8.33	1	A
Aroclor 1242	ND		ug/kg	39.3	5.30	1	A
Aroclor 1248	ND		ug/kg	39.3	5.90	1	A
Aroclor 1254	ND		ug/kg	39.3	4.30	1	A
Aroclor 1260	ND		ug/kg	39.3	7.26	1	A
Aroclor 1262	ND		ug/kg	39.3	4.99	1	A
Aroclor 1268	ND		ug/kg	39.3	4.07	1	A
PCBs, Total	ND		ug/kg	39.3	3.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 09/04/20 15:29  
Analyst: HT

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 17:59  
Cleanup Method: EPA 3665A  
Cleanup Date: 09/04/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-11 Batch: WG1406360-1						
Aroclor 1016	ND		ug/kg	32.0	2.84	A
Aroclor 1221	ND		ug/kg	32.0	3.21	A
Aroclor 1232	ND		ug/kg	32.0	6.79	A
Aroclor 1242	ND		ug/kg	32.0	4.32	A
Aroclor 1248	ND		ug/kg	32.0	4.80	A
Aroclor 1254	ND		ug/kg	32.0	3.50	A
Aroclor 1260	ND		ug/kg	32.0	5.92	A
Aroclor 1262	ND		ug/kg	32.0	4.07	A
Aroclor 1268	ND		ug/kg	32.0	3.32	A
PCBs, Total	ND		ug/kg	32.0	2.84	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-11 Batch: WG1406360-2 WG1406360-3									
Aroclor 1016	80		84		40-140	5		50	A
Aroclor 1260	68		69		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		83		30-150	A
Decachlorobiphenyl	77		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		83		30-150	B
Decachlorobiphenyl	86		84		30-150	B

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<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>	<i>Column</i>
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1406360-6 WG1406360-7 QC Sample: L2036369-04 Client ID: S-9													
Aroclor 1016	ND	269	213	79		214	79		40-140	0		50	A
Aroclor 1260	ND	269	177	66		177	65		40-140	0		50	A

<i>Surrogate</i>	<i>MS</i>		<i>MSD</i>		<i>Acceptance Criteria</i>	<i>Column</i>
	<i>% Recovery</i>	<i>Qualifier</i>	<i>% Recovery</i>	<i>Qualifier</i>		
2,4,5,6-Tetrachloro-m-xylene	78		77		30-150	A
Decachlorobiphenyl	73		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		75		30-150	B
Decachlorobiphenyl	82		78		30-150	B

# PESTICIDES

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/10/20 12:45  
 Analyst: SM  
 Percent Solids: 76%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.06	0.403	1	A
Lindane	ND		ug/kg	0.857	0.383	1	A
Alpha-BHC	ND		ug/kg	0.857	0.243	1	A
Beta-BHC	ND		ug/kg	2.06	0.780	1	A
Heptachlor	ND		ug/kg	1.03	0.461	1	A
Aldrin	ND		ug/kg	2.06	0.724	1	A
Heptachlor epoxide	ND		ug/kg	3.86	1.16	1	A
Endrin	ND		ug/kg	0.857	0.351	1	A
Endrin aldehyde	ND		ug/kg	2.57	0.900	1	A
Endrin ketone	ND		ug/kg	2.06	0.529	1	A
Dieldrin	ND		ug/kg	1.28	0.642	1	A
4,4'-DDE	ND		ug/kg	2.06	0.475	1	A
4,4'-DDD	ND		ug/kg	2.06	0.733	1	A
4,4'-DDT	ND		ug/kg	3.86	1.65	1	A
Endosulfan I	ND		ug/kg	2.06	0.486	1	A
Endosulfan II	ND		ug/kg	2.06	0.687	1	A
Endosulfan sulfate	ND		ug/kg	0.857	0.408	1	A
Methoxychlor	ND		ug/kg	3.86	1.20	1	A
Toxaphene	ND		ug/kg	38.6	10.8	1	A
cis-Chlordane	ND		ug/kg	2.57	0.716	1	A
trans-Chlordane	ND		ug/kg	2.57	0.678	1	A
Chlordane	ND		ug/kg	17.1	6.81	1	A



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 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	119		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	77		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 05:25  
 Analyst: EL  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.26	0.444	1	A
Lindane	ND		ug/kg	0.944	0.422	1	A
Alpha-BHC	ND		ug/kg	0.944	0.268	1	A
Beta-BHC	ND		ug/kg	2.26	0.859	1	A
Heptachlor	ND		ug/kg	1.13	0.508	1	A
Aldrin	ND		ug/kg	2.26	0.797	1	A
Heptachlor epoxide	ND		ug/kg	4.25	1.27	1	A
Endrin	ND		ug/kg	0.944	0.387	1	A
Endrin aldehyde	ND		ug/kg	2.83	0.991	1	A
Endrin ketone	ND		ug/kg	2.26	0.583	1	A
Dieldrin	ND		ug/kg	1.42	0.708	1	A
4,4'-DDE	ND		ug/kg	2.26	0.524	1	A
4,4'-DDD	0.928	J	ug/kg	2.26	0.808	1	B
4,4'-DDT	ND		ug/kg	4.25	1.82	1	A
Endosulfan I	ND		ug/kg	2.26	0.535	1	A
Endosulfan II	ND		ug/kg	2.26	0.757	1	A
Endosulfan sulfate	ND		ug/kg	0.944	0.449	1	A
Methoxychlor	ND		ug/kg	4.25	1.32	1	A
Toxaphene	ND		ug/kg	42.5	11.9	1	A
cis-Chlordane	ND		ug/kg	2.83	0.789	1	A
trans-Chlordane	ND		ug/kg	2.83	0.747	1	A
Chlordane	ND		ug/kg	18.9	7.50	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-02  
 Client ID: S-7  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:10  
 Date Received: 09/02/20  
 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	125		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	78		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 11:12  
 Analyst: BM  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.12	0.416	1	A
Lindane	ND		ug/kg	0.885	0.396	1	A
Alpha-BHC	ND		ug/kg	0.885	0.251	1	A
Beta-BHC	ND		ug/kg	2.12	0.806	1	A
Heptachlor	ND		ug/kg	1.06	0.476	1	A
Aldrin	ND		ug/kg	2.12	0.748	1	A
Heptachlor epoxide	ND		ug/kg	3.98	1.20	1	A
Endrin	ND		ug/kg	0.885	0.363	1	A
Endrin aldehyde	ND		ug/kg	2.66	0.930	1	A
Endrin ketone	ND		ug/kg	2.12	0.547	1	A
Dieldrin	ND		ug/kg	1.33	0.664	1	A
4,4'-DDE	ND		ug/kg	2.12	0.491	1	A
4,4'-DDD	ND		ug/kg	2.12	0.758	1	A
4,4'-DDT	ND		ug/kg	3.98	1.71	1	A
Endosulfan I	ND		ug/kg	2.12	0.502	1	A
Endosulfan II	ND		ug/kg	2.12	0.710	1	A
Endosulfan sulfate	ND		ug/kg	0.885	0.421	1	A
Methoxychlor	ND		ug/kg	3.98	1.24	1	A
Toxaphene	ND		ug/kg	39.8	11.2	1	A
cis-Chlordane	ND		ug/kg	2.66	0.740	1	A
trans-Chlordane	ND		ug/kg	2.66	0.701	1	A
Chlordane	ND		ug/kg	17.7	7.04	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-03  
 Client ID: S-8  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:00  
 Date Received: 09/02/20  
 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	93		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	70		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/08/20 22:00  
 Analyst: EL  
 Percent Solids: 75%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.02	0.396	1	A
Lindane	ND		ug/kg	0.842	0.376	1	A
Alpha-BHC	ND		ug/kg	0.842	0.239	1	A
Beta-BHC	ND		ug/kg	2.02	0.766	1	A
Heptachlor	ND		ug/kg	1.01	0.453	1	A
Aldrin	ND		ug/kg	2.02	0.712	1	A
Heptachlor epoxide	ND		ug/kg	3.79	1.14	1	A
Endrin	ND		ug/kg	0.842	0.345	1	A
Endrin aldehyde	ND		ug/kg	2.53	0.884	1	A
Endrin ketone	ND		ug/kg	2.02	0.520	1	A
Dieldrin	ND		ug/kg	1.26	0.632	1	A
4,4'-DDE	ND		ug/kg	2.02	0.467	1	A
4,4'-DDD	ND		ug/kg	2.02	0.721	1	A
4,4'-DDT	ND		ug/kg	3.79	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.478	1	A
Endosulfan II	ND		ug/kg	2.02	0.675	1	A
Endosulfan sulfate	ND		ug/kg	0.842	0.401	1	A
Methoxychlor	ND		ug/kg	3.79	1.18	1	A
Toxaphene	ND		ug/kg	37.9	10.6	1	A
cis-Chlordane	ND		ug/kg	2.53	0.704	1	A
trans-Chlordane	ND		ug/kg	2.53	0.667	1	A
Chlordane	ND		ug/kg	16.8	6.70	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-04  
 Client ID: S-9  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 11:30  
 Date Received: 09/02/20  
 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	78		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	71		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 23:55  
 Analyst: SM  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.05	0.402	1	A
Lindane	ND		ug/kg	0.855	0.382	1	A
Alpha-BHC	ND		ug/kg	0.855	0.243	1	A
Beta-BHC	ND		ug/kg	2.05	0.778	1	A
Heptachlor	ND		ug/kg	1.03	0.460	1	A
Aldrin	ND		ug/kg	2.05	0.722	1	A
Heptachlor epoxide	ND		ug/kg	3.85	1.15	1	A
Endrin	ND		ug/kg	0.855	0.350	1	A
Endrin aldehyde	ND		ug/kg	2.56	0.898	1	A
Endrin ketone	ND		ug/kg	2.05	0.528	1	A
Dieldrin	ND		ug/kg	1.28	0.641	1	A
4,4'-DDE	ND		ug/kg	2.05	0.474	1	A
4,4'-DDD	ND		ug/kg	2.05	0.732	1	A
4,4'-DDT	ND		ug/kg	3.85	1.65	1	A
Endosulfan I	ND		ug/kg	2.05	0.485	1	A
Endosulfan II	ND		ug/kg	2.05	0.686	1	A
Endosulfan sulfate	ND		ug/kg	0.855	0.407	1	A
Methoxychlor	ND		ug/kg	3.85	1.20	1	A
Toxaphene	ND		ug/kg	38.5	10.8	1	A
cis-Chlordane	ND		ug/kg	2.56	0.715	1	A
trans-Chlordane	ND		ug/kg	2.56	0.677	1	A
Chlordane	ND		ug/kg	17.1	6.80	1	A



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-05  
 Client ID: S-10  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:00  
 Date Received: 09/02/20  
 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	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	51		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-06  
 Client ID: S-11  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:05  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/10/20 12:22  
 Analyst: SM  
 Percent Solids: 74%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 09/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.14	0.418	1	A
Lindane	ND		ug/kg	0.890	0.398	1	A
Alpha-BHC	ND		ug/kg	0.890	0.253	1	A
Beta-BHC	ND		ug/kg	2.14	0.810	1	A
Heptachlor	ND		ug/kg	1.07	0.479	1	A
Aldrin	ND		ug/kg	2.14	0.752	1	A
Heptachlor epoxide	ND		ug/kg	4.00	1.20	1	A
Endrin	ND		ug/kg	0.890	0.365	1	A
Endrin aldehyde	ND		ug/kg	2.67	0.934	1	A
Endrin ketone	ND		ug/kg	2.14	0.550	1	A
Dieldrin	ND		ug/kg	1.33	0.667	1	A
4,4'-DDE	ND		ug/kg	2.14	0.494	1	A
4,4'-DDD	ND		ug/kg	2.14	0.762	1	A
4,4'-DDT	ND		ug/kg	4.00	1.72	1	A
Endosulfan I	ND		ug/kg	2.14	0.504	1	A
Endosulfan II	ND		ug/kg	2.14	0.714	1	A
Endosulfan sulfate	ND		ug/kg	0.890	0.424	1	A
Methoxychlor	ND		ug/kg	4.00	1.24	1	A
Toxaphene	ND		ug/kg	40.0	11.2	1	A
cis-Chlordane	ND		ug/kg	2.67	0.744	1	A
trans-Chlordane	ND		ug/kg	2.67	0.705	1	A
Chlordane	ND		ug/kg	17.8	7.07	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-06  
 Client ID: S-11  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:05  
 Date Received: 09/02/20  
 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	175	Q	30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 14:57  
 Analyst: BM  
 Percent Solids: 72%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.16	0.424	1	A
Lindane	ND		ug/kg	0.902	0.403	1	A
Alpha-BHC	ND		ug/kg	0.902	0.256	1	A
Beta-BHC	ND		ug/kg	2.16	0.821	1	A
Heptachlor	ND		ug/kg	1.08	0.485	1	A
Aldrin	ND		ug/kg	2.16	0.762	1	A
Heptachlor epoxide	ND		ug/kg	4.06	1.22	1	A
Endrin	ND		ug/kg	0.902	0.370	1	A
Endrin aldehyde	ND		ug/kg	2.71	0.947	1	A
Endrin ketone	ND		ug/kg	2.16	0.558	1	A
Dieldrin	ND		ug/kg	1.35	0.677	1	A
4,4'-DDE	ND		ug/kg	2.16	0.501	1	A
4,4'-DDD	ND		ug/kg	2.16	0.772	1	A
4,4'-DDT	ND		ug/kg	4.06	1.74	1	A
Endosulfan I	ND		ug/kg	2.16	0.512	1	A
Endosulfan II	ND		ug/kg	2.16	0.724	1	A
Endosulfan sulfate	ND		ug/kg	0.902	0.429	1	A
Methoxychlor	ND		ug/kg	4.06	1.26	1	A
Toxaphene	ND		ug/kg	40.6	11.4	1	A
cis-Chlordane	ND		ug/kg	2.71	0.754	1	A
trans-Chlordane	ND		ug/kg	2.71	0.714	1	A
Chlordane	ND		ug/kg	18.0	7.17	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-07  
 Client ID: S-12  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 12:30  
 Date Received: 09/02/20  
 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	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	77		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 15:09  
 Analyst: BM  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.01	0.394	1	A
Lindane	ND		ug/kg	0.838	0.375	1	A
Alpha-BHC	ND		ug/kg	0.838	0.238	1	A
Beta-BHC	ND		ug/kg	2.01	0.763	1	A
Heptachlor	ND		ug/kg	1.01	0.451	1	A
Aldrin	ND		ug/kg	2.01	0.708	1	A
Heptachlor epoxide	ND		ug/kg	3.77	1.13	1	A
Endrin	ND		ug/kg	0.838	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.880	1	A
Endrin ketone	ND		ug/kg	2.01	0.518	1	A
Dieldrin	ND		ug/kg	1.26	0.629	1	A
4,4'-DDE	ND		ug/kg	2.01	0.465	1	A
4,4'-DDD	ND		ug/kg	2.01	0.718	1	A
4,4'-DDT	ND		ug/kg	3.77	1.62	1	A
Endosulfan I	ND		ug/kg	2.01	0.475	1	A
Endosulfan II	ND		ug/kg	2.01	0.672	1	A
Endosulfan sulfate	ND		ug/kg	0.838	0.399	1	A
Methoxychlor	ND		ug/kg	3.77	1.17	1	A
Toxaphene	ND		ug/kg	37.7	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.701	1	A
trans-Chlordane	ND		ug/kg	2.52	0.664	1	A
Chlordane	ND		ug/kg	16.8	6.66	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-08  
 Client ID: S-13  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 14:40  
 Date Received: 09/02/20  
 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	70		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	55		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-09  
**Client ID:** S-14  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:35  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 09/09/20 15:20  
**Analyst:** BM  
**Percent Solids:** 66%

**Extraction Method:** EPA 3546  
**Extraction Date:** 09/03/20 21:55  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.30	0.450	1	A
Lindane	ND		ug/kg	0.959	0.428	1	A
Alpha-BHC	ND		ug/kg	0.959	0.272	1	A
Beta-BHC	ND		ug/kg	2.30	0.872	1	A
Heptachlor	ND		ug/kg	1.15	0.516	1	A
Aldrin	ND		ug/kg	2.30	0.810	1	A
Heptachlor epoxide	ND		ug/kg	4.31	1.29	1	A
Endrin	ND		ug/kg	0.959	0.393	1	A
Endrin aldehyde	ND		ug/kg	2.88	1.01	1	A
Endrin ketone	ND		ug/kg	2.30	0.592	1	A
Dieldrin	ND		ug/kg	1.44	0.719	1	A
4,4'-DDE	ND		ug/kg	2.30	0.532	1	A
4,4'-DDD	ND		ug/kg	2.30	0.820	1	A
4,4'-DDT	ND		ug/kg	4.31	1.85	1	A
Endosulfan I	ND		ug/kg	2.30	0.544	1	A
Endosulfan II	ND		ug/kg	2.30	0.769	1	A
Endosulfan sulfate	ND		ug/kg	0.959	0.456	1	A
Methoxychlor	ND		ug/kg	4.31	1.34	1	A
Toxaphene	ND		ug/kg	43.1	12.1	1	A
cis-Chlordane	ND		ug/kg	2.88	0.801	1	A
trans-Chlordane	ND		ug/kg	2.88	0.759	1	A
Chlordane	ND		ug/kg	19.2	7.62	1	A



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-09  
 Client ID: S-14  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 15:35  
 Date Received: 09/02/20  
 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	172	Q	30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	67		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 12:12  
 Analyst: BM  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.02	0.395	1	A
Lindane	ND		ug/kg	0.840	0.376	1	A
Alpha-BHC	ND		ug/kg	0.840	0.238	1	A
Beta-BHC	ND		ug/kg	2.02	0.764	1	A
Heptachlor	ND		ug/kg	1.01	0.452	1	A
Aldrin	ND		ug/kg	2.02	0.710	1	A
Heptachlor epoxide	ND		ug/kg	3.78	1.13	1	A
Endrin	ND		ug/kg	0.840	0.344	1	A
Endrin aldehyde	ND		ug/kg	2.52	0.882	1	A
Endrin ketone	ND		ug/kg	2.02	0.519	1	A
Dieldrin	ND		ug/kg	1.26	0.630	1	A
4,4'-DDE	ND		ug/kg	2.02	0.466	1	A
4,4'-DDD	ND		ug/kg	2.02	0.719	1	A
4,4'-DDT	ND		ug/kg	3.78	1.62	1	A
Endosulfan I	ND		ug/kg	2.02	0.476	1	A
Endosulfan II	ND		ug/kg	2.02	0.674	1	A
Endosulfan sulfate	ND		ug/kg	0.840	0.400	1	A
Methoxychlor	ND		ug/kg	3.78	1.18	1	A
Toxaphene	ND		ug/kg	37.8	10.6	1	A
cis-Chlordane	ND		ug/kg	2.52	0.702	1	A
trans-Chlordane	ND		ug/kg	2.52	0.665	1	A
Chlordane	ND		ug/kg	16.8	6.68	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-10  
 Client ID: S-15  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 16:00  
 Date Received: 09/02/20  
 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	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	50		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 09/09/20 15:31  
 Analyst: BM  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 09/03/20 21:55  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.90	0.371	1	A
Lindane	ND		ug/kg	0.790	0.353	1	A
Alpha-BHC	ND		ug/kg	0.790	0.224	1	A
Beta-BHC	ND		ug/kg	1.90	0.719	1	A
Heptachlor	ND		ug/kg	0.948	0.425	1	A
Aldrin	ND		ug/kg	1.90	0.667	1	A
Heptachlor epoxide	ND		ug/kg	3.55	1.07	1	A
Endrin	ND		ug/kg	0.790	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.829	1	A
Endrin ketone	ND		ug/kg	1.90	0.488	1	A
Dieldrin	ND		ug/kg	1.18	0.592	1	A
4,4'-DDE	ND		ug/kg	1.90	0.438	1	A
4,4'-DDD	ND		ug/kg	1.90	0.676	1	A
4,4'-DDT	ND		ug/kg	3.55	1.52	1	A
Endosulfan I	ND		ug/kg	1.90	0.448	1	A
Endosulfan II	ND		ug/kg	1.90	0.633	1	A
Endosulfan sulfate	ND		ug/kg	0.790	0.376	1	A
Methoxychlor	ND		ug/kg	3.55	1.10	1	A
Toxaphene	ND		ug/kg	35.5	9.95	1	A
cis-Chlordane	ND		ug/kg	2.37	0.660	1	A
trans-Chlordane	ND		ug/kg	2.37	0.625	1	A
Chlordane	ND		ug/kg	15.8	6.28	1	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 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	101		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	70		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 09/08/20 11:36  
Analyst: DGM

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:04  
Cleanup Method: EPA 3620B  
Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05,07-11 Batch: WG1406366-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin aldehyde	ND		ug/kg	1.94	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	13.0	5.16	A

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 09/08/20 11:36  
Analyst: DGM

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:04  
Cleanup Method: EPA 3620B  
Cleanup Date: 09/05/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-05,07-11 Batch: WG1406366-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	60		30-150	B

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 09/10/20 11:48  
Analyst: SM

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:04  
Cleanup Method: EPA 3620B  
Cleanup Date: 09/05/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1408298-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	13.0	5.16	A
Endrin aldehyde	ND		ug/kg	1.94	0.681	B



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 09/10/20 11:48  
Analyst: SM

Extraction Method: EPA 3546  
Extraction Date: 09/03/20 18:04  
Cleanup Method: EPA 3620B  
Cleanup Date: 09/05/20  
Cleanup Method: EPA 3660B  
Cleanup Date: 09/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 06 Batch: WG1408298-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	63		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07-11 Batch: WG1406366-2 WG1406366-3									
Delta-BHC	79		78		30-150	1		30	A
Lindane	75		74		30-150	1		30	A
Alpha-BHC	82		81		30-150	1		30	A
Beta-BHC	85		84		30-150	1		30	A
Heptachlor	75		74		30-150	1		30	A
Aldrin	63		62		30-150	2		30	A
Heptachlor epoxide	69		69		30-150	0		30	A
Endrin	74		73		30-150	1		30	A
Endrin aldehyde	50		49		30-150	2		30	A
Endrin ketone	68		66		30-150	3		30	A
Dieldrin	72		72		30-150	0		30	A
4,4'-DDE	63		62		30-150	2		30	A
4,4'-DDD	74		74		30-150	0		30	A
4,4'-DDT	73		74		30-150	1		30	A
Endosulfan I	74		74		30-150	0		30	A
Endosulfan II	69		69		30-150	0		30	A
Endosulfan sulfate	65		63		30-150	3		30	A
Methoxychlor	85		84		30-150	1		30	A
cis-Chlordane	63		62		30-150	2		30	A
trans-Chlordane	68		67		30-150	1		30	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07-11 Batch: WG1406366-2 WG1406366-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	60		44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		71		30-150	B
Decachlorobiphenyl	72		72		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1408298-2 WG1408298-3									
Delta-BHC	91		88		30-150	3		30	A
Lindane	84		83		30-150	1		30	A
Alpha-BHC	93		92		30-150	1		30	A
Beta-BHC	97		95		30-150	2		30	A
Heptachlor	88		89		30-150	1		30	A
Aldrin	79		74		30-150	7		30	A
Heptachlor epoxide	83		78		30-150	6		30	A
Endrin	90		87		30-150	3		30	A
Endrin aldehyde	68		56		30-150	19		30	A
Endrin ketone	85		80		30-150	6		30	A
Dieldrin	90		86		30-150	5		30	A
4,4'-DDE	80		76		30-150	5		30	A
4,4'-DDD	93		88		30-150	6		30	A
4,4'-DDT	95		89		30-150	7		30	A
Endosulfan I	92		88		30-150	4		30	A
Endosulfan II	83		79		30-150	5		30	A
Endosulfan sulfate	83		76		30-150	9		30	A
Methoxychlor	109		103		30-150	6		30	A
cis-Chlordane	75		71		30-150	5		30	A
trans-Chlordane	81		80		30-150	1		30	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 06 Batch: WG1408298-2 WG1408298-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	94		92		30-150	A
Decachlorobiphenyl	76		53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		71		30-150	B
Decachlorobiphenyl	81		77		30-150	B

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Project Number:** AT5596

**Lab Number:** L2036369

**Report Date:** 09/17/20

<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>	<i>Column</i>
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07-11 QC Batch ID: WG1406366-6 WG1406366-7 QC Sample: L2036369-04 Client ID: S-9													
Delta-BHC	ND	43.2	35.9	83		28.3	67		30-150	24		50	A
Lindane	ND	43.2	31.8	74		25.1	59		30-150	24		50	A
Alpha-BHC	ND	43.2	39.2	91		31.1	73		30-150	23		50	A
Beta-BHC	ND	43.2	37.4	87		30.2	71		30-150	21		50	A
Heptachlor	ND	43.2	38.7	90		29.6	70		30-150	27		50	A
Aldrin	ND	43.2	28.4	66		22.7	53		30-150	22		50	A
Heptachlor epoxide	ND	43.2	32.8	76		27.4	64		30-150	18		50	A
Endrin	ND	43.2	31.0	72		26.8	63		30-150	15		50	A
Endrin aldehyde	ND	43.2	17.3	40		16.0	38		30-150	8		50	A
Endrin ketone	ND	43.2	24.8	57		20.2	48		30-150	20		50	A
Dieldrin	ND	43.2	31.3	73		25.3	59		30-150	21		50	A
4,4'-DDE	ND	43.2	28.8	67		23.2	55		30-150	22		50	A
4,4'-DDD	ND	43.2	32.9	76		27.6	65		30-150	18		50	A
4,4'-DDT	ND	43.2	31.7	73		27.6	65		30-150	14		50	A
Endosulfan I	ND	43.2	32.9	76		26.5	62		30-150	22		50	A
Endosulfan II	ND	43.2	28.4	66		24.9	59		30-150	13		50	A
Endosulfan sulfate	ND	43.2	23.9	55		20.3	48		30-150	16		50	A
Methoxychlor	ND	43.2	32.0	74		27.4	64		30-150	15		50	A
cis-Chlordane	ND	43.2	30.8	71		23.5	55		30-150	27		50	A
trans-Chlordane	ND	43.2	32.6	76		26.5	62		30-150	21		50	A

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND

**Lab Number:** L2036369

**Project Number:** AT5596

**Report Date:** 09/17/20

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-05,07-11 QC Batch ID: WG1406366-6 WG1406366-7 QC Sample: L2036369-04  
Client ID: S-9

<b>Surrogate</b>	<b>MS</b>		<b>MSD</b>		<b>Acceptance Criteria</b>	<b>Column</b>
	<b>% Recovery</b>	<b>Qualifier</b>	<b>% Recovery</b>	<b>Qualifier</b>		
2,4,5,6-Tetrachloro-m-xylene	87		67		30-150	A
Decachlorobiphenyl	58		43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		61		30-150	B
Decachlorobiphenyl	78		93		30-150	B

## METALS



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-01  
 Client ID: S-6  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 13:40  
 Date Received: 09/02/20  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4220		mg/kg	10.3	2.79	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.17	0.393	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Arsenic, Total	3.26		mg/kg	1.03	0.215	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Barium, Total	26.8		mg/kg	1.03	0.180	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Beryllium, Total	0.258	J	mg/kg	0.517	0.034	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Cadmium, Total	0.155	J	mg/kg	1.03	0.101	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Calcium, Total	3240		mg/kg	10.3	3.62	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Chromium, Total	9.19		mg/kg	1.03	0.099	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Cobalt, Total	5.37		mg/kg	2.07	0.172	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Copper, Total	6.62		mg/kg	1.03	0.267	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Iron, Total	10800		mg/kg	5.17	0.933	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Lead, Total	6.85		mg/kg	5.17	0.277	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Magnesium, Total	2540		mg/kg	10.3	1.59	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Manganese, Total	160		mg/kg	1.03	0.164	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.084	0.055	1	09/05/20 10:00	09/08/20 08:54	EPA 7471B	1,7471B	EW
Nickel, Total	10.6		mg/kg	2.58	0.250	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Potassium, Total	324		mg/kg	258	14.9	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.07	0.267	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.03	0.292	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Sodium, Total	39.0	J	mg/kg	207	3.26	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.07	0.326	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Vanadium, Total	9.68		mg/kg	1.03	0.210	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV
Zinc, Total	34.2		mg/kg	5.17	0.303	2	09/05/20 07:30	09/08/20 16:46	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-02

Date Collected: 09/02/20 14:10

Client ID: S-7

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6050		mg/kg	11.7	3.17	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.87	0.446	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Arsenic, Total	2.13		mg/kg	1.17	0.244	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Barium, Total	25.6		mg/kg	1.17	0.204	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Beryllium, Total	0.258	J	mg/kg	0.587	0.039	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Cadmium, Total	0.200	J	mg/kg	1.17	0.115	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Calcium, Total	3480		mg/kg	11.7	4.11	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Chromium, Total	10.7		mg/kg	1.17	0.113	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Cobalt, Total	6.32		mg/kg	2.35	0.195	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Copper, Total	6.14		mg/kg	1.17	0.303	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Iron, Total	15300		mg/kg	5.87	1.06	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Lead, Total	8.19		mg/kg	5.87	0.315	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Magnesium, Total	3450		mg/kg	11.7	1.81	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Manganese, Total	200		mg/kg	1.17	0.187	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.095	0.062	1	09/05/20 10:00	09/08/20 08:58	EPA 7471B	1,7471B	EW
Nickel, Total	13.7		mg/kg	2.94	0.284	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Potassium, Total	476		mg/kg	294	16.9	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.35	0.303	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.17	0.332	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Sodium, Total	43.2	J	mg/kg	235	3.70	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.35	0.370	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Vanadium, Total	10.4		mg/kg	1.17	0.238	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV
Zinc, Total	47.1		mg/kg	5.87	0.344	2	09/05/20 07:30	09/08/20 16:50	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-03

Date Collected: 09/02/20 11:00

Client ID: S-8

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6460		mg/kg	10.1	2.72	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.04	0.383	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Arsenic, Total	3.20		mg/kg	1.01	0.209	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Barium, Total	41.5		mg/kg	1.01	0.175	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Beryllium, Total	0.322	J	mg/kg	0.504	0.033	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Cadmium, Total	0.252	J	mg/kg	1.01	0.099	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Calcium, Total	12700		mg/kg	10.1	3.52	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Chromium, Total	10.1		mg/kg	1.01	0.097	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Cobalt, Total	7.28		mg/kg	2.01	0.167	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Copper, Total	10.4		mg/kg	1.01	0.260	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Iron, Total	18300		mg/kg	5.04	0.909	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Lead, Total	6.99		mg/kg	5.04	0.270	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Magnesium, Total	4480		mg/kg	10.1	1.55	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Manganese, Total	386		mg/kg	1.01	0.160	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.084	0.055	1	09/05/20 10:00	09/08/20 09:01	EPA 7471B	1,7471B	EW
Nickel, Total	15.2		mg/kg	2.52	0.244	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Potassium, Total	510		mg/kg	252	14.5	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Selenium, Total	0.352	J	mg/kg	2.01	0.260	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.01	0.285	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Sodium, Total	54.4	J	mg/kg	201	3.17	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.01	0.317	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Vanadium, Total	15.1		mg/kg	1.01	0.204	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV
Zinc, Total	41.5		mg/kg	5.04	0.295	2	09/05/20 07:30	09/08/20 16:55	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-04

Date Collected: 09/02/20 11:30

Client ID: S-9

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5490		mg/kg	10.5	2.83	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	5.24	0.398	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Arsenic, Total	3.10		mg/kg	1.05	0.218	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Barium, Total	29.7		mg/kg	1.05	0.182	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Beryllium, Total	0.230	J	mg/kg	0.524	0.035	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Cadmium, Total	0.199	J	mg/kg	1.05	0.103	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Calcium, Total	7930		mg/kg	10.5	3.67	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Chromium, Total	8.67		mg/kg	1.05	0.100	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Cobalt, Total	6.69		mg/kg	2.10	0.174	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Copper, Total	7.58		mg/kg	1.05	0.270	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Iron, Total	14600		mg/kg	5.24	0.946	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Lead, Total	5.58		mg/kg	5.24	0.281	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Magnesium, Total	4670		mg/kg	10.5	1.61	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Manganese, Total	206		mg/kg	1.05	0.166	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.084	0.055	1	09/05/20 10:00	09/08/20 08:41	EPA 7471B	1,7471B	EW
Nickel, Total	12.8		mg/kg	2.62	0.254	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Potassium, Total	533		mg/kg	262	15.1	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Selenium, Total	0.576	J	mg/kg	2.10	0.270	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.05	0.296	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Sodium, Total	48.4	J	mg/kg	210	3.30	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.10	0.330	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Vanadium, Total	13.2		mg/kg	1.05	0.213	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC
Zinc, Total	37.3		mg/kg	5.24	0.307	2	09/05/20 07:30	09/08/20 15:33	EPA 3050B	1,6010D	LC



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-05

Date Collected: 09/02/20 12:00

Client ID: S-10

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6060		mg/kg	10.5	2.84	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.25	0.399	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Arsenic, Total	2.89		mg/kg	1.05	0.218	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Barium, Total	48.1		mg/kg	1.05	0.183	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Beryllium, Total	0.294	J	mg/kg	0.525	0.035	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Cadmium, Total	0.830	J	mg/kg	1.05	0.103	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Calcium, Total	5070		mg/kg	10.5	3.68	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Chromium, Total	31.5		mg/kg	1.05	0.101	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Cobalt, Total	6.35		mg/kg	2.10	0.174	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Copper, Total	22.5		mg/kg	1.05	0.271	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Iron, Total	15300		mg/kg	5.25	0.948	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Lead, Total	38.8		mg/kg	5.25	0.281	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Magnesium, Total	3520		mg/kg	10.5	1.62	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Manganese, Total	290		mg/kg	1.05	0.167	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Mercury, Total	0.167		mg/kg	0.084	0.055	1	09/05/20 10:00	09/08/20 09:11	EPA 7471B	1,7471B	EW
Nickel, Total	13.4		mg/kg	2.62	0.254	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Potassium, Total	408		mg/kg	262	15.1	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.10	0.271	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.05	0.297	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Sodium, Total	49.0	J	mg/kg	210	3.31	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.10	0.331	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Vanadium, Total	14.5		mg/kg	1.05	0.213	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV
Zinc, Total	80.1		mg/kg	5.25	0.308	2	09/05/20 07:30	09/08/20 16:59	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-06

Date Collected: 09/02/20 15:05

Client ID: S-11

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4840		mg/kg	10.8	2.91	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.38	0.409	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Arsenic, Total	3.27		mg/kg	1.08	0.224	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Barium, Total	33.8		mg/kg	1.08	0.187	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Beryllium, Total	0.258	J	mg/kg	0.538	0.036	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Cadmium, Total	1.10		mg/kg	1.08	0.105	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Calcium, Total	3800		mg/kg	10.8	3.77	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Chromium, Total	31.4		mg/kg	1.08	0.103	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Cobalt, Total	5.84		mg/kg	2.15	0.179	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Copper, Total	17.8		mg/kg	1.08	0.278	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Iron, Total	16100		mg/kg	5.38	0.972	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Lead, Total	33.1		mg/kg	5.38	0.288	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Magnesium, Total	3160		mg/kg	10.8	1.66	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Manganese, Total	177		mg/kg	1.08	0.171	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Mercury, Total	0.140		mg/kg	0.087	0.057	1	09/05/20 10:00	09/08/20 09:14	EPA 7471B	1,7471B	EW
Nickel, Total	13.7		mg/kg	2.69	0.260	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Potassium, Total	391		mg/kg	269	15.5	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.15	0.278	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.08	0.305	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Sodium, Total	84.2	J	mg/kg	215	3.39	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.15	0.339	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Vanadium, Total	11.0		mg/kg	1.08	0.218	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV
Zinc, Total	83.7		mg/kg	5.38	0.315	2	09/05/20 07:30	09/08/20 23:41	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-07

Date Collected: 09/02/20 12:30

Client ID: S-12

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5060		mg/kg	10.6	2.86	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.30	0.403	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Arsenic, Total	4.05		mg/kg	1.06	0.221	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Barium, Total	18.3		mg/kg	1.06	0.184	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Beryllium, Total	0.244	J	mg/kg	0.530	0.035	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Cadmium, Total	0.138	J	mg/kg	1.06	0.104	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Calcium, Total	1450		mg/kg	10.6	3.71	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Chromium, Total	7.42		mg/kg	1.06	0.102	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Cobalt, Total	5.62		mg/kg	2.12	0.176	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Copper, Total	4.35		mg/kg	1.06	0.274	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Iron, Total	13600		mg/kg	5.30	0.958	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Lead, Total	4.70	J	mg/kg	5.30	0.284	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Magnesium, Total	3370		mg/kg	10.6	1.63	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Manganese, Total	159		mg/kg	1.06	0.169	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.087	0.057	1	09/05/20 10:00	09/08/20 09:18	EPA 7471B	1,7471B	EW
Nickel, Total	11.3		mg/kg	2.65	0.257	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Potassium, Total	380		mg/kg	265	15.3	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Selenium, Total	0.392	J	mg/kg	2.12	0.274	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	1.06	0.300	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Sodium, Total	67.1	J	mg/kg	212	3.34	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.12	0.334	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Vanadium, Total	10.7		mg/kg	1.06	0.215	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV
Zinc, Total	32.6		mg/kg	5.30	0.311	2	09/05/20 07:30	09/08/20 23:46	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-08

Date Collected: 09/02/20 14:40

Client ID: S-13

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	11400		mg/kg	9.78	2.64	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.89	0.371	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Arsenic, Total	7.58		mg/kg	0.978	0.203	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Barium, Total	70.7		mg/kg	0.978	0.170	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Beryllium, Total	0.538		mg/kg	0.489	0.032	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Cadmium, Total	0.381	J	mg/kg	0.978	0.096	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Calcium, Total	26200		mg/kg	9.78	3.42	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Chromium, Total	18.0		mg/kg	0.978	0.094	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Cobalt, Total	13.5		mg/kg	1.96	0.162	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Copper, Total	29.2		mg/kg	0.978	0.252	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Iron, Total	27800		mg/kg	4.89	0.883	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Lead, Total	15.9		mg/kg	4.89	0.262	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Magnesium, Total	9780		mg/kg	9.78	1.50	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Manganese, Total	581		mg/kg	0.978	0.155	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.082	0.053	1	09/05/20 10:00	09/08/20 09:21	EPA 7471B	1,7471B	EW
Nickel, Total	29.5		mg/kg	2.44	0.236	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Potassium, Total	1140		mg/kg	244	14.1	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Selenium, Total	0.342	J	mg/kg	1.96	0.252	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.978	0.277	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Sodium, Total	156	J	mg/kg	196	3.08	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Thallium, Total	0.665	J	mg/kg	1.96	0.308	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Vanadium, Total	21.3		mg/kg	0.978	0.198	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV
Zinc, Total	67.1		mg/kg	4.89	0.286	2	09/05/20 07:30	09/08/20 23:50	EPA 3050B	1,6010D	BV





Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-09

Date Collected: 09/02/20 15:35

Client ID: S-14

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	6240		mg/kg	11.5	3.10	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	5.74	0.436	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Arsenic, Total	4.26		mg/kg	1.15	0.239	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Barium, Total	81.4		mg/kg	1.15	0.200	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Beryllium, Total	0.310	J	mg/kg	0.574	0.038	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Cadmium, Total	3.01		mg/kg	1.15	0.112	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Calcium, Total	5270		mg/kg	11.5	4.02	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Chromium, Total	86.0		mg/kg	1.15	0.110	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Cobalt, Total	6.30		mg/kg	2.30	0.191	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Copper, Total	55.0		mg/kg	1.15	0.296	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Iron, Total	15300		mg/kg	5.74	1.04	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Lead, Total	117		mg/kg	5.74	0.308	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Magnesium, Total	3660		mg/kg	11.5	1.77	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Manganese, Total	212		mg/kg	1.15	0.183	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Mercury, Total	0.776		mg/kg	0.094	0.062	1	09/05/20 10:00	09/08/20 09:24	EPA 7471B	1,7471B	EW
Nickel, Total	15.5		mg/kg	2.87	0.278	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Potassium, Total	466		mg/kg	287	16.5	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	2.30	0.296	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Silver, Total	1.12	J	mg/kg	1.15	0.325	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Sodium, Total	107	J	mg/kg	230	3.62	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	2.30	0.362	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Vanadium, Total	14.6		mg/kg	1.15	0.233	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV
Zinc, Total	218		mg/kg	5.74	0.336	2	09/05/20 07:30	09/08/20 23:55	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-10

Date Collected: 09/02/20 16:00

Client ID: S-15

Date Received: 09/02/20

Sample Location: GLENMONT, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	11100		mg/kg	9.90	2.67	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.95	0.376	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Arsenic, Total	20.0		mg/kg	0.990	0.206	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Barium, Total	73.9		mg/kg	0.990	0.172	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Beryllium, Total	0.465	J	mg/kg	0.495	0.033	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Cadmium, Total	0.356	J	mg/kg	0.990	0.097	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Calcium, Total	21300		mg/kg	9.90	3.46	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Chromium, Total	17.2		mg/kg	0.990	0.095	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Cobalt, Total	12.9		mg/kg	1.98	0.164	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Copper, Total	25.0		mg/kg	0.990	0.255	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Iron, Total	29000		mg/kg	4.95	0.894	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Lead, Total	12.3		mg/kg	4.95	0.265	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Magnesium, Total	9220		mg/kg	9.90	1.52	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Manganese, Total	696		mg/kg	0.990	0.157	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.082	0.054	1	09/05/20 10:00	09/08/20 09:28	EPA 7471B	1,7471B	EW
Nickel, Total	26.6		mg/kg	2.47	0.240	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Potassium, Total	1180		mg/kg	247	14.2	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Selenium, Total	0.722	J	mg/kg	1.98	0.255	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.990	0.280	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Sodium, Total	167	J	mg/kg	198	3.12	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Thallium, Total	0.802	J	mg/kg	1.98	0.312	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Vanadium, Total	21.7		mg/kg	0.990	0.201	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV
Zinc, Total	63.2		mg/kg	4.95	0.290	2	09/05/20 07:30	09/09/20 00:00	EPA 3050B	1,6010D	BV



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

## SAMPLE RESULTS

Lab ID: L2036369-11  
 Client ID: DUP01  
 Sample Location: GLENMONT, NY

Date Collected: 09/02/20 00:00  
 Date Received: 09/02/20  
 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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4330		mg/kg	9.47	2.56	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Antimony, Total	ND		mg/kg	4.73	0.360	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Arsenic, Total	1.68		mg/kg	0.947	0.197	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Barium, Total	21.7		mg/kg	0.947	0.165	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Beryllium, Total	0.208	J	mg/kg	0.473	0.031	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Cadmium, Total	0.161	J	mg/kg	0.947	0.093	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Calcium, Total	9290		mg/kg	9.47	3.31	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Chromium, Total	6.77		mg/kg	0.947	0.091	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Cobalt, Total	5.33		mg/kg	1.89	0.157	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Copper, Total	5.98		mg/kg	0.947	0.244	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Iron, Total	11600		mg/kg	4.73	0.855	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Lead, Total	4.78		mg/kg	4.73	0.254	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Magnesium, Total	4690		mg/kg	9.47	1.46	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Manganese, Total	164		mg/kg	0.947	0.150	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Mercury, Total	ND		mg/kg	0.079	0.051	1	09/05/20 10:00	09/08/20 09:31	EPA 7471B	1,7471B	EW
Nickel, Total	10.9		mg/kg	2.37	0.229	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Potassium, Total	335		mg/kg	237	13.6	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Selenium, Total	ND		mg/kg	1.89	0.244	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Silver, Total	ND		mg/kg	0.947	0.268	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Sodium, Total	57.2	J	mg/kg	189	2.98	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Thallium, Total	ND		mg/kg	1.89	0.298	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Vanadium, Total	9.97		mg/kg	0.947	0.192	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV
Zinc, Total	32.5		mg/kg	4.73	0.277	2	09/05/20 07:30	09/09/20 00:04	EPA 3050B	1,6010D	BV



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

## 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): 01-11 Batch: WG1406658-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Iron, Total	1.04	J	mg/kg	2.00	0.361	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Manganese, Total	0.160	J	mg/kg	0.400	0.064	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/05/20 07:30	09/08/20 15:24	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/05/20 07:30	09/08/20 15:24	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): 01-11 Batch: WG1406986-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/05/20 10:00	09/08/20 08:35	1,7471B	EW



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

## Method Blank Analysis Batch Quality Control

### Prep Information

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Digestion Method: EPA 7471B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1406658-2 SRM Lot Number: D109-540								
Aluminum, Total	76		-		50-150	-		
Antimony, Total	134		-		19-250	-		
Arsenic, Total	105		-		70-130	-		
Barium, Total	99		-		75-125	-		
Beryllium, Total	99		-		75-125	-		
Cadmium, Total	97		-		75-125	-		
Calcium, Total	97		-		73-128	-		
Chromium, Total	99		-		70-130	-		
Cobalt, Total	98		-		75-125	-		
Copper, Total	103		-		75-125	-		
Iron, Total	108		-		35-165	-		
Lead, Total	101		-		72-128	-		
Magnesium, Total	88		-		62-138	-		
Manganese, Total	99		-		74-126	-		
Nickel, Total	99		-		70-130	-		
Potassium, Total	92		-		59-141	-		
Selenium, Total	102		-		68-132	-		
Silver, Total	104		-		68-131	-		
Sodium, Total	101		-		35-165	-		
Thallium, Total	100		-		68-131	-		
Vanadium, Total	105		-		59-141	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BEACON ISLAND

**Project Number:** AT5596

**Lab Number:** L2036369

**Report Date:** 09/17/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1406658-2 SRM Lot Number: D109-540					
Zinc, Total	98	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-11 Batch: WG1406986-2 SRM Lot Number: D109-540					
Mercury, Total	100	-	60-140	-	

### Matrix Spike Analysis Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

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): 01-11    QC Batch ID: WG1406658-3 WG1406658-4    QC Sample: L2036369-04    Client ID: S-9												
Aluminum, Total	5490	206	6220	354	Q	6820	630	Q	75-125	9		20
Antimony, Total	ND	51.6	44.5	86		45.6	86		75-125	2		20
Arsenic, Total	3.10	12.4	16.0	104		17.6	114		75-125	10		20
Barium, Total	29.7	206	244	104		259	109		75-125	6		20
Beryllium, Total	0.230J	5.16	5.46	106		5.68	108		75-125	4		20
Cadmium, Total	0.199J	5.26	5.44	103		5.69	106		75-125	4		20
Calcium, Total	7930	1030	10500	249	Q	11600	348	Q	75-125	10		20
Chromium, Total	8.67	20.6	29.2	100		31.2	107		75-125	7		20
Cobalt, Total	6.69	51.6	55.9	95		58.5	98		75-125	5		20
Copper, Total	7.58	25.8	35.4	108		39.9	122		75-125	12		20
Iron, Total	14600	103	15600	970	Q	16600	1900	Q	75-125	6		20
Lead, Total	5.58	52.6	57.6	99		60.4	102		75-125	5		20
Magnesium, Total	4670	1030	6170	145	Q	6190	144	Q	75-125	0		20
Manganese, Total	206	51.6	275	134	Q	296	170	Q	75-125	7		20
Nickel, Total	12.8	51.6	61.1	94		64.4	98		75-125	5		20
Potassium, Total	533	1030	1440	88		1540	95		75-125	7		20
Selenium, Total	0.576J	12.4	12.3	99		12.7	100		75-125	3		20
Silver, Total	ND	30.9	32.8	106		34.5	109		75-125	5		20
Sodium, Total	48.4J	1030	1120	108		1170	111		75-125	4		20
Thallium, Total	ND	12.4	10.6	86		11.0	87		75-125	4		20
Vanadium, Total	13.2	51.6	64.6	100		68.6	105		75-125	6		20



**Matrix Spike Analysis**  
Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

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): 01-11 QC Batch ID: WG1406658-3 WG1406658-4 QC Sample: L2036369-04 Client ID: S-9									
Zinc, Total	37.3	51.6	89.2	101	95.6	110	75-125	7	20
Total Metals - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1406986-3 WG1406986-4 QC Sample: L2036369-04 Client ID: S-9									
Mercury, Total	ND	0.167	0.168	100	0.167	98	80-120	1	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-01  
**Client ID:** S-6  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 13:40  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.717		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.842		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.780		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	75.6		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-02  
**Client ID:** S-7  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 14:10  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.968		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.820		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.894		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	66.4		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-03  
**Client ID:** S-8  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 11:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.677		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.682		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.680		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	74.6		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-04  
**Client ID:** S-9  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 11:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	1.10		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.843		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.972		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	75.1		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-05  
**Client ID:** S-10  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	1.03		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.828		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.928		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	74.4		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-06  
**Client ID:** S-11  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:05  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.736		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.544		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.640		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	73.5		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR





**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-07  
**Client ID:** S-12  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 12:30  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.138		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.173		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.156		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	72.4		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-08  
**Client ID:** S-13  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 14:40  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	1.09		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.999		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	1.04		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	76.8		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-09  
**Client ID:** S-14  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 15:35  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	2.02		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	1.95		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	1.98		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	66.4		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-10  
**Client ID:** S-15  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 16:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.425		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.435		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.430		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	76.6		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**SAMPLE RESULTS**

**Lab ID:** L2036369-11  
**Client ID:** DUP01  
**Sample Location:** GLENMONT, NY

**Date Collected:** 09/02/20 00:00  
**Date Received:** 09/02/20  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>Total Organic Carbon - Mansfield Lab</b>										
Total Organic Carbon (Rep1)	0.937		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	0.840		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	0.888		%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	80.5		%	0.100	NA	1	-	09/03/20 19:32	121,2540G	TR



Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Organic Carbon - Mansfield Lab for sample(s): 01-11 Batch: WG1406703-1									
Total Organic Carbon (Rep1)	ND	%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Rep2)	ND	%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP
Total Organic Carbon (Average)	ND	%	0.010	0.010	1	-	09/14/20 12:24	1,9060A	SP

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BEACON ISLAND

**Project Number:** AT5596

**Lab Number:** L2036369

**Report Date:** 09/17/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-11 Batch: WG1406703-2								
Total Organic Carbon (Rep1)	108		-		75-125	-		25
Total Organic Carbon (Rep2)	104		-		75-125	-		25
Total Organic Carbon (Average)	106		-		75-125	-		25

### Matrix Spike Analysis Batch Quality Control

Project Name: BEACON ISLAND

Lab Number: L2036369

Project Number: AT5596

Report Date: 09/17/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Organic Carbon - Mansfield Lab Associated sample(s): 01-11 QC Batch ID: WG1406703-3 WG1406703-4 QC Sample: L2036369-04 Client ID: S-9												
Total Organic Carbon (Rep1)	1.10	0.802	1.69	74	Q	1.80	90		75-125	6		25
Total Organic Carbon (Rep2)	0.843	1.18	2.17	112		1.88	122		75-125	14		25



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: BEACON ISLAND

Project Number: AT5596

Lab Number: L2036369

Report Date: 09/17/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1406386-1 QC Sample: L2036369-04 Client ID: S-9						
Solids, Total	75.1	78.5	%	4		20

**Project Name:** BEACON ISLAND**Lab Number:** L2036369**Project Number:** AT5596**Report Date:** 09/17/20**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(*)
L2036369-01A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),A2-TOC-9060-2REPS(28),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2036369-01C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-01D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-01X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-01Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-01Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-02A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),A2-TOC-9060-2REPS(28),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2036369-02C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-02D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-02X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-02Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-02Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-03A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Serial\_No:**09172013:02  
**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2036369-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),HG-T(28),A2-TOC-9060-2REPS(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2036369-03C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-03D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-03X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-03Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-03Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-04A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-04A1	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),A2-TOC-9060-2REPS(28),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2036369-04B1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),A2-TOC-9060-2REPS(28),FE-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2036369-04C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-04C1	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-04D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-04D1	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-04X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-04X1	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-04X2	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-04Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BEACON ISLAND  
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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2036369-04Y1	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-04Y2	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-04Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-04Z1	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-04Z2	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-05A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),A2-TOC-9060-2REPS(28),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2036369-05C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-05D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-05X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-05Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-05Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-06A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),A2-TOC-9060-2REPS(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2036369-06C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-06D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-06X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-06Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-06Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-07A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)

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**Project Number:** AT5596

**Serial\_No:**09172013:02  
**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2036369-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),A2-TOC-9060-2REPS(28),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2036369-07C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-07D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-07X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-07Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-07Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-08A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),A2-TOC-9060-2REPS(28),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2036369-08C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-08D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-08X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-08Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-08Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-09A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),PB-TI(180),SB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),A2-TOC-9060-2REPS(28),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2036369-09C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-09D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-09X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)

**Project Name:** BEACON ISLAND  
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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2036369-09Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-09Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-10A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),A2-TOC-9060-2REPS(28),MN-TI(180),FE-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2036369-10C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-10D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-10X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-10Y	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-10Z	Vial Water preserved split	A	NA		3.5	Y	Absent	04-SEP-20 14:09	NYTCL-8260(14)
L2036369-11A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2036369-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),A2-TOC-9060-2REPS(28),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2036369-11C	Vial Large Septa unpreserved (4oz)	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-11D	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2036369-11X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260(14)
L2036369-11Y	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>04-SEP-20 14:09</b>	NYTCL-8260(14)
L2036369-11Z	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>04-SEP-20 14:09</b>	NYTCL-8260(14)

**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

## 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. 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:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

- 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.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**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.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- 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.

Report Format: DU Report with 'J' Qualifiers





**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

**Data Qualifiers**

- 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

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**Project Name:** BEACON ISLAND  
**Project Number:** AT5596

**Lab Number:** L2036369  
**Report Date:** 09/17/20

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 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.



## Certification Information

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

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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.

**EPA TO-12** Non-methane organics

**EPA 3C** Fixed gases

**Biological Tissue Matrix:** EPA 3050B

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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, 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**

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



# ATLANTIC TESTING LABORATORIES

## Environmental Chain-Of-Custody Record

L2036369  
No 10542



**Albany**  
22 Corporate Drive  
Clifton Park, NY 12065  
518/383-9144 (T)  
518/383-9166 (F)

**Binghamton**  
126 Park Avenue  
Binghamton, NY 13903  
607/773-1812 (T)  
607/773-1835 (F)

**Canton**  
6431 U.S. Highway 11  
Canton, NY 13617  
315/386-4578 (T)  
315/386-1012 (F)

**Elmira**  
2330 Route 352  
Elmira, NY 14903  
607/737-0700 (T)  
607/737-0714 (F)

**Plattsburgh**  
130 Arizona Ave  
Plattsburgh, NY 12903  
518/563-5878 (T)  
518/562-1321 (F)

**Poughkeepsie**  
251 Upper North Road  
Highland, NY 12528  
845/691-6098 (T)  
845/691-6099 (F)

**Rochester**  
3445 Winton Place  
Rochester, NY 14623  
585/427-9020 (T)  
585/427-9021 (F)

**Syracuse**  
6085 Court Street Road  
Syracuse, NY 13206  
315/699-5281 (T)  
315/699-3374 (F)

**Utica**  
301 St. Anthony Street  
Utica, NY 13501  
315/735-3309 (T)  
315/735-0742 (F)

**Watertown**  
26581 NYS Route 283  
Watertown, NY 13601  
315/786-7887 (T)  
315/786-2022 (F)

Project No.		Client Name		QA/QC Code		Parameters		Report Distribution									
AT5596		McFarland Johnson		<input type="checkbox"/> NYSDEC <input type="checkbox"/> SW-846 <input type="checkbox"/> NYSDOH <input type="checkbox"/> CLP <input type="checkbox"/> Other		TAL Metals EPA 8081- PCBs EPA 8092- PCBs		Dates Required: Standard Send Report To: Cdashaw@Labs.ATL E-mail Results: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
Page 1 of 2		Project Contact: Cherylene Dashaw		Project Location: Glenmont, NY		TUC EPA 9060		Custody Seal: X= intact									
Project Name: Beacon Island		Date		Time		Field Sample No.		Sample Location		Sample Type		No. of Containers		Notes		Laboratory Sample ID No.	
1340		9/2/20		-		5-6		C, SD		4		X		X		X	
9/2/20		1100		-		5-7		C, SD		4		X		X		X	
9/2/20		1130		-		5-8		C, SD		4		X		X		X	
9/2/20		1200		-		5-9		C, SD		4		X		X		X	
9/2/20		1505		-		5-10		C, SD		4		X		X		X	
9/2/20		1230		-		5-11		C, SD		4		X		X		X	
9/2/20		1440		-		5-12		C, SD		4		X		X		X	
9/2/20		1535		-		5-13		C, SD		4		X		X		X	
9/2/20		1600		-		5-14		C, SD		4		X		X		X	
9/2/20		1600		-		5-15		C, SD		4		X		X		X	
Samplers Name:		Date:		Received for Name:		Date:		Shipment Rec'd Intact?									
Samplers Signature:		Time:		Laboratory Signature:		Time:		<input type="checkbox"/> YES <input type="checkbox"/> NO									
Samples Relinquished By:				Samples Received By:				Sample Type Code Key:				Laboratory Remarks					
Name:		Date:		Name:		Date:		Description		Matrix							
Signature:		Time:		Signature:		Time:		C Composite		DW Drinking Water							
								G Grab		GW Groundwater							
								Q QA/QC		O Oil							
Name:		Date:		Name:		Date:		O Other		S Soil							
Signature:		Time:		Signature:		Time:		SL Sludge		WW Wastewater							

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# ATLANTIC TESTING LABORATORIES

## Environmental Chain-Of-Custody Record

L 2036369  
No 10543

**Albany**  
72 Corporate Drive  
Clifton Park, NY 12065  
518/383-9144 (T)  
518/383-9166 (F)

**Binghamton**  
126 Park Avenue  
Binghamton, NY 13903  
607/773-1812 (T)  
607/773-1835 (F)

**Canton**  
6431 U.S. Highway 11  
Canton, NY 13617  
315/386-4578 (T)  
315/386-1012 (F)

**Elmira**  
2330 Route 352  
Elmira, NY 14903  
607/737-0700 (T)  
607/737-0714 (F)

**Plattsburgh**  
130 Arizona Ave  
Plattsburgh, NY 12903  
518/563-5878 (T)  
518/562-1321 (F)

**Poughkeepsie**  
251 Upper North Road  
Highland, NY 12528  
845/691-6098 (T)  
845/691-6099 (F)

**Rochester**  
3445 Winton Place  
Rochester, NY 14623  
585/427-9020 (T)  
585/427-9021 (F)

**Syracuse**  
6085 Court Street Road  
Syracuse, NY 13206  
315/699-5281 (T)  
315/699-3374 (F)

**Utica**  
301 St. Anthony Street  
Utica, NY 13501  
315/735-3309 (T)  
315/735-0742 (F)

**Watertown**  
26581 NYS Route 283  
Watertown, NY 13601  
315/786-7887 (T)  
315/786-2022 (F)

Project No.		Client Name			QA/QC Code		Parameters					Report Distribution	
AT5596 Page 2 of 2		McFarland Johnson C. Dashner			<input type="checkbox"/> NYSDEC <input type="checkbox"/> SW-846 <input type="checkbox"/> NYSDOH <input type="checkbox"/> CLP <input type="checkbox"/> Other _____		EPA 900A EPA 8200-EM-02 EPA 8270 (S/D) TAL Metals EPA 8001 Pesticides EPA 8087 PCB					Dates Required: Standard Send Report To: Coker New York Lab CTE E-mail Results: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
Project Contact:		Project Location			Sample Type		No. of Containers					Laboratory Sample ID No.	
Project Name:		Bascon Island			Glenmont NY							Notes	
Date	Time	Field Sample No.	Sample Location		Sample Type	No. of Containers							
9/2/20	-	-	DUP 01		C, SD	4							
9/2/20	-	-	MS/MCO		C, SD	4							
Samplers Name:		Date:		Received for Name:		Date:		Shipment Rec'd Intact?					
Samplers Signature:		Time:		Laboratory Signature:		Time:		<input type="checkbox"/> YES <input type="checkbox"/> NO					
Samples Relinquished By:				Samples Received By:				Sample Type Code Key:			Laboratory Remarks		
Name:		Date:		Name:		Date:		Description			Matrix		
Signature:		Time:		Signature:		Time:		C Composite G Grab Q QA/QC O Other			DW Drinking Water GW Groundwater O Oil S Soil SL Sludge WW Wastewater		
Name:		Date:		Name:		Date:							
Signature:		Time:		Signature:		Time:							

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**APPENDIX D**

**LABORATORY REPORTS AND SAMPLE CUSTODY DOCUMENTATION (JUNE 2019 SAMPLES)**



## ANALYTICAL REPORT

Lab Number:	L1925812
Client:	Atlantic Testing Laboratories, Limited 6431 US Highway 11 PO Box 29 Canton, NY 13617
ATTN:	Tim S. Parker
Phone:	(315) 386-4578
Project Name:	BEACON ISLAND PROJECT
Project Number:	CD4644
Report Date:	07/12/19

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).

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



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1925812-01	B-1	SEDIMENT	PORT OF ALBANY	06/13/19 15:10	06/14/19
L1925812-02	B-2	SEDIMENT	PORT OF ALBANY	06/13/19 15:40	06/14/19
L1925812-03	B-3	SEDIMENT	PORT OF ALBANY	06/13/19 16:15	06/14/19
L1925812-04	B-4	SEDIMENT	PORT OF ALBANY	06/13/19 16:45	06/14/19
L1925812-05	B-5	SEDIMENT	PORT OF ALBANY	06/13/19 17:10	06/14/19



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

### 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.

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**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

### Case Narrative (continued)

#### Report Submission

July 12, 2019: This final report includes the results of all requested analyses.

July 08, 2019: This is a preliminary report.

July 02, 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

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

#### Pesticides

L1925812-01 through -05: The samples were frozen upon receipt in order to arrest the holding time.

#### Total Metals

L1925812-01 through -05: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the high concentrations of target and non-target elements.

#### Cyanide, Total

The WG1249185-2 LCS recovery (74%), associated with L1925812-02 through -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1249186-2 LCS recovery (74%), associated with L1925812-01 and -05, 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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 07/12/19

# ORGANICS

# VOLATILES

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 06/26/19 14:11  
 Analyst: JC  
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/kg	0.73	0.24	1
Toluene	ND		ug/kg	1.5	0.80	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
p/m-Xylene	ND		ug/kg	2.9	0.82	1
o-Xylene	ND		ug/kg	1.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	101		70-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-02  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 06/26/19 11:33  
 Analyst: JC  
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
p/m-Xylene	ND		ug/kg	2.1	0.58	1
o-Xylene	ND		ug/kg	1.0	0.30	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	100		70-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-03  
 Client ID: B-3  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:15  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 06/26/19 12:13  
 Analyst: JC  
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
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
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 06/26/19 12:52  
 Analyst: JC  
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by GC/MS - Westborough Lab</b>						
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
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	103		70-130



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-05  
 Client ID: B-5  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 17:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8260C  
 Analytical Date: 06/26/19 13:31  
 Analyst: JC  
 Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 06/26/19 09:35  
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-05 Batch: WG1253412-5					
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1925812

Report Date: 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-05 Batch: WG1253412-3 WG1253412-4								
Benzene	100		103		70-130	3		30
Toluene	97		98		70-130	1		30
Ethylbenzene	101		104		70-130	3		30
p/m-Xylene	100		103		70-130	3		30
o-Xylene	101		104		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	97		99		70-130

# SEMIVOLATILES

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 06/26/19 15:02  
 Analyst: PS  
 Percent Solids: 78%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 10:37  
 Cleanup Method: EPA 3630  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Mansfield Lab</b>						
Naphthalene	ND		ug/kg	4.97	1.95	1
1,4-Dichlorobenzene	ND		ug/kg	4.97	2.54	1
Acenaphthylene	ND		ug/kg	4.97	1.95	1
Acenaphthene	ND		ug/kg	4.97	1.93	1
Fluorene	ND		ug/kg	4.97	2.94	1
Phenanthrene	ND		ug/kg	4.97	3.20	1
Anthracene	ND		ug/kg	4.97	3.40	1
Fluoranthene	2.83	J	ug/kg	4.97	2.29	1
Pyrene	ND		ug/kg	4.97	2.74	1
Benz(a)anthracene	ND		ug/kg	4.97	2.44	1
Chrysene	ND		ug/kg	4.97	1.80	1
Benzo(b)fluoranthene	ND		ug/kg	4.97	2.38	1
Benzo(k)fluoranthene	ND		ug/kg	4.97	1.42	1
Benzo(e)Pyrene	ND		ug/kg	4.97	2.73	1
Benzo(a)pyrene	ND		ug/kg	4.97	1.44	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	4.97	1.42	1
Dibenz(a,h)anthracene	ND		ug/kg	4.97	2.94	1
Benzo(ghi)perylene	ND		ug/kg	4.97	3.20	1
2-Methylnaphthalene	ND		ug/kg	4.97	2.16	1
1-Methylnaphthalene	ND		ug/kg	4.97	2.24	1
Dibenzothiophene	ND		ug/kg	4.97	1.56	1
2-Chloronaphthalene	ND		ug/kg	4.97	1.81	1
Biphenyl	ND		ug/kg	4.97	1.74	1
2,6-Dimethylnaphthalene	ND		ug/kg	4.97	1.86	1
2,3,5-Trimethylnaphthalene	ND		ug/kg	4.97	1.77	1
1-Methylphenanthrene	ND		ug/kg	4.97	2.05	1
Perylene	25.9		ug/kg	4.97	1.68	1

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs by GC/MS-SIM - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	51		30-130
Pyrene-d10	57		30-130
Benzo(b)fluoranthene-d12	52		30-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-02  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 06/26/19 15:37  
 Analyst: PS  
 Percent Solids: 73%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 10:37  
 Cleanup Method: EPA 3630  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Mansfield Lab</b>						
Naphthalene	8.93		ug/kg	5.13	2.01	1
1,4-Dichlorobenzene	ND		ug/kg	5.13	2.63	1
Acenaphthylene	5.70		ug/kg	5.13	2.01	1
Acenaphthene	6.92		ug/kg	5.13	2.00	1
Fluorene	9.52		ug/kg	5.13	3.03	1
Phenanthrene	55.9		ug/kg	5.13	3.31	1
Anthracene	13.9		ug/kg	5.13	3.51	1
Fluoranthene	126		ug/kg	5.13	2.37	1
Pyrene	102		ug/kg	5.13	2.83	1
Benz(a)anthracene	52.5		ug/kg	5.13	2.53	1
Chrysene	73.1		ug/kg	5.13	1.86	1
Benzo(b)fluoranthene	61.1		ug/kg	5.13	2.46	1
Benzo(k)fluoranthene	51.2		ug/kg	5.13	1.47	1
Benzo(e)Pyrene	50.8		ug/kg	5.13	2.82	1
Benzo(a)pyrene	55.9		ug/kg	5.13	1.49	1
Indeno(1,2,3-cd)Pyrene	50.0		ug/kg	5.13	1.46	1
Dibenz(a,h)anthracene	11.5		ug/kg	5.13	3.04	1
Benzo(ghi)perylene	49.9		ug/kg	5.13	3.31	1
2-Methylnaphthalene	7.10		ug/kg	5.13	2.23	1
1-Methylnaphthalene	4.23	J	ug/kg	5.13	2.32	1
Dibenzothiophene	4.97	J	ug/kg	5.13	1.61	1
2-Chloronaphthalene	ND		ug/kg	5.13	1.87	1
Biphenyl	3.93	J	ug/kg	5.13	1.80	1
2,6-Dimethylnaphthalene	6.67		ug/kg	5.13	1.92	1
2,3,5-Trimethylnaphthalene	3.78	J	ug/kg	5.13	1.83	1
1-Methylphenanthrene	5.44		ug/kg	5.13	2.12	1
Perylene	203		ug/kg	5.13	1.74	1

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-02  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs by GC/MS-SIM - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	43		30-130
Pyrene-d10	50		30-130
Benzo(b)fluoranthene-d12	49		30-130



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-03  
 Client ID: B-3  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:15  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 06/26/19 16:13  
 Analyst: PS  
 Percent Solids: 80%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 10:37  
 Cleanup Method: EPA 3630  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Mansfield Lab</b>						
Naphthalene	ND		ug/kg	4.67	1.83	1
1,4-Dichlorobenzene	ND		ug/kg	4.67	2.39	1
Acenaphthylene	ND		ug/kg	4.67	1.83	1
Acenaphthene	ND		ug/kg	4.67	1.82	1
Fluorene	ND		ug/kg	4.67	2.76	1
Phenanthrene	ND		ug/kg	4.67	3.00	1
Anthracene	ND		ug/kg	4.67	3.19	1
Fluoranthene	ND		ug/kg	4.67	2.15	1
Pyrene	ND		ug/kg	4.67	2.58	1
Benz(a)anthracene	ND		ug/kg	4.67	2.30	1
Chrysene	ND		ug/kg	4.67	1.69	1
Benzo(b)fluoranthene	ND		ug/kg	4.67	2.24	1
Benzo(k)fluoranthene	ND		ug/kg	4.67	1.34	1
Benzo(e)Pyrene	ND		ug/kg	4.67	2.56	1
Benzo(a)pyrene	ND		ug/kg	4.67	1.35	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	4.67	1.33	1
Dibenz(a,h)anthracene	ND		ug/kg	4.67	2.77	1
Benzo(ghi)perylene	ND		ug/kg	4.67	3.00	1
2-Methylnaphthalene	ND		ug/kg	4.67	2.03	1
1-Methylnaphthalene	ND		ug/kg	4.67	2.11	1
Dibenzothiophene	ND		ug/kg	4.67	1.46	1
2-Chloronaphthalene	ND		ug/kg	4.67	1.70	1
Biphenyl	ND		ug/kg	4.67	1.63	1
2,6-Dimethylnaphthalene	ND		ug/kg	4.67	1.74	1
2,3,5-Trimethylnaphthalene	ND		ug/kg	4.67	1.67	1
1-Methylphenanthrene	ND		ug/kg	4.67	1.93	1
Perylene	49.7		ug/kg	4.67	1.58	1

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-03  
 Client ID: B-3  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:15  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs by GC/MS-SIM - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	33		30-130
Pyrene-d10	54		30-130
Benzo(b)fluoranthene-d12	54		30-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 06/26/19 16:49  
 Analyst: PS  
 Percent Solids: 83%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 10:37  
 Cleanup Method: EPA 3630  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Mansfield Lab</b>						
Naphthalene	4.00	J	ug/kg	4.63	1.82	1
1,4-Dichlorobenzene	ND		ug/kg	4.63	2.37	1
Acenaphthylene	ND		ug/kg	4.63	1.82	1
Acenaphthene	2.16	J	ug/kg	4.63	1.80	1
Fluorene	3.49	J	ug/kg	4.63	2.74	1
Phenanthrene	5.20		ug/kg	4.63	2.98	1
Anthracene	3.63	J	ug/kg	4.63	3.17	1
Fluoranthene	8.38		ug/kg	4.63	2.14	1
Pyrene	8.32		ug/kg	4.63	2.56	1
Benz(a)anthracene	4.17	J	ug/kg	4.63	2.28	1
Chrysene	3.31	J	ug/kg	4.63	1.68	1
Benzo(b)fluoranthene	2.75	J	ug/kg	4.63	2.22	1
Benzo(k)fluoranthene	2.15	J	ug/kg	4.63	1.33	1
Benzo(e)Pyrene	ND		ug/kg	4.63	2.54	1
Benzo(a)pyrene	3.03	J	ug/kg	4.63	1.34	1
Indeno(1,2,3-cd)Pyrene	2.25	J	ug/kg	4.63	1.32	1
Dibenz(a,h)anthracene	ND		ug/kg	4.63	2.75	1
Benzo(ghi)perylene	ND		ug/kg	4.63	2.98	1
2-Methylnaphthalene	ND		ug/kg	4.63	2.02	1
1-Methylnaphthalene	ND		ug/kg	4.63	2.09	1
Dibenzothiophene	ND		ug/kg	4.63	1.45	1
2-Chloronaphthalene	ND		ug/kg	4.63	1.69	1
Biphenyl	ND		ug/kg	4.63	1.62	1
2,6-Dimethylnaphthalene	ND		ug/kg	4.63	1.73	1
2,3,5-Trimethylnaphthalene	ND		ug/kg	4.63	1.65	1
1-Methylphenanthrene	ND		ug/kg	4.63	1.91	1
Perylene	11.3		ug/kg	4.63	1.57	1

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs by GC/MS-SIM - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	38		30-130
Pyrene-d10	54		30-130
Benzo(b)fluoranthene-d12	49		30-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-05  
 Client ID: B-5  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 17:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8270D-SIM  
 Analytical Date: 06/26/19 17:24  
 Analyst: PS  
 Percent Solids: 61%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 10:37  
 Cleanup Method: EPA 3630  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>PAHs by GC/MS-SIM - Mansfield Lab</b>						
Naphthalene	35.0		ug/kg	6.13	2.40	1
1,4-Dichlorobenzene	ND		ug/kg	6.13	3.14	1
Acenaphthylene	ND		ug/kg	6.13	2.40	1
Acenaphthene	17.8		ug/kg	6.13	2.38	1
Fluorene	28.2		ug/kg	6.13	3.62	1
Phenanthrene	51.9		ug/kg	6.13	3.95	1
Anthracene	16.6		ug/kg	6.13	4.19	1
Fluoranthene	17.7		ug/kg	6.13	2.83	1
Pyrene	19.6		ug/kg	6.13	3.38	1
Benz(a)anthracene	9.70		ug/kg	6.13	3.02	1
Chrysene	14.3		ug/kg	6.13	2.22	1
Benzo(b)fluoranthene	5.75	J	ug/kg	6.13	2.94	1
Benzo(k)fluoranthene	3.73	J	ug/kg	6.13	1.76	1
Benzo(e)Pyrene	5.56	J	ug/kg	6.13	3.36	1
Benzo(a)pyrene	5.92	J	ug/kg	6.13	1.78	1
Indeno(1,2,3-cd)Pyrene	4.00	J	ug/kg	6.13	1.75	1
Dibenz(a,h)anthracene	ND		ug/kg	6.13	3.64	1
Benzo(ghi)perylene	4.36	J	ug/kg	6.13	3.95	1
2-Methylnaphthalene	26.5		ug/kg	6.13	2.67	1
1-Methylnaphthalene	12.6		ug/kg	6.13	2.77	1
Dibenzothiophene	9.61		ug/kg	6.13	1.92	1
2-Chloronaphthalene	ND		ug/kg	6.13	2.24	1
Biphenyl	7.95		ug/kg	6.13	2.14	1
2,6-Dimethylnaphthalene	20.5		ug/kg	6.13	2.29	1
2,3,5-Trimethylnaphthalene	7.91		ug/kg	6.13	2.19	1
1-Methylphenanthrene	9.69		ug/kg	6.13	2.53	1
Perylene	134		ug/kg	6.13	2.08	1

**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-05

Date Collected: 06/13/19 17:10

Client ID: B-5

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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PAHs by GC/MS-SIM - Mansfield Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	52		30-130
Pyrene-d10	56		30-130
Benzo(b)fluoranthene-d12	51		30-130

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 06/26/19 12:44  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 06/24/19 10:37  
Cleanup Method: EPA 3630  
Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL
PAHs by GC/MS-SIM - Mansfield Lab for sample(s): 01-05 Batch: WG1252199-1					
Naphthalene	ND		ug/kg	4.00	1.57
1,4-Dichlorobenzene	ND		ug/kg	4.00	2.05
Acenaphthylene	ND		ug/kg	4.00	1.57
Acenaphthene	ND		ug/kg	4.00	1.56
Fluorene	ND		ug/kg	4.00	2.36
Phenanthrene	ND		ug/kg	4.00	2.58
Anthracene	ND		ug/kg	4.00	2.74
Fluoranthene	ND		ug/kg	4.00	1.84
Pyrene	ND		ug/kg	4.00	2.21
Benzo(a)anthracene	ND		ug/kg	4.00	1.97
Chrysene	ND		ug/kg	4.00	1.45
Benzo(b)fluoranthene	ND		ug/kg	4.00	1.92
Benzo(k)fluoranthene	ND		ug/kg	4.00	1.15
Benzo(e)Pyrene	ND		ug/kg	4.00	2.20
Benzo(a)pyrene	ND		ug/kg	4.00	1.16
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	4.00	1.14
Dibenz(a,h)anthracene	ND		ug/kg	4.00	2.37
Benzo(ghi)perylene	ND		ug/kg	4.00	2.58
2-Methylnaphthalene	ND		ug/kg	4.00	1.74
1-Methylnaphthalene	ND		ug/kg	4.00	1.81
Dibenzothiophene	ND		ug/kg	4.00	1.26
2-Chloronaphthalene	ND		ug/kg	4.00	1.46
Biphenyl	ND		ug/kg	4.00	1.40
2,6-Dimethylnaphthalene	ND		ug/kg	4.00	1.50
2,3,5-Trimethylnaphthalene	ND		ug/kg	4.00	1.43
1-Methylphenanthrene	ND		ug/kg	4.00	1.65
Perylene	ND		ug/kg	4.00	1.36

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270D-SIM  
Analytical Date: 06/26/19 12:44  
Analyst: PS

Extraction Method: EPA 3570  
Extraction Date: 06/24/19 10:37  
Cleanup Method: EPA 3630  
Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL
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PAHs by GC/MS-SIM - Mansfield Lab for sample(s): 01-05 Batch: WG1252199-1

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Methylnaphthalene-d10	46		30-130
Pyrene-d10	57		30-130
Benzo(b)fluoranthene-d12	54		30-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT

**Project Number:** CD4644

**Lab Number:** L1925812

**Report Date:** 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-05 Batch: WG1252199-2 WG1252199-3								
Naphthalene	41		46		40-140	11		30
1,4-Dichlorobenzene	41		48		40-140	16		30
Acenaphthylene	47		51		40-140	8		30
Acenaphthene	48		52		40-140	8		30
Fluorene	52		56		40-140	7		30
Phenanthrene	54		56		40-140	4		30
Anthracene	53		56		40-140	6		30
Fluoranthene	61		63		40-140	3		30
Pyrene	51		52		40-140	2		30
Benz(a)anthracene	58		57		40-140	2		30
Chrysene	56		58		40-140	4		30
Benzo(b)fluoranthene	62		58		40-140	7		30
Benzo(k)fluoranthene	44		48		40-140	9		30
Benzo(e)Pyrene	58		57		40-140	2		30
Benzo(a)pyrene	55		57		40-140	4		30
Indeno(1,2,3-cd)Pyrene	70		68		40-140	3		30
Dibenz(a,h)anthracene	66		66		40-140	0		30
Benzo(ghi)perylene	67		67		40-140	0		30
2-Methylnaphthalene	44		50		40-140	13		30
1-Methylnaphthalene	44		49		40-140	11		30
Dibenzothiophene	51		55		40-140	8		30
2-Chloronaphthalene	42		46		40-140	9		30
Biphenyl	44		48		40-140	9		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-05 Batch: WG1252199-2 WG1252199-3								
2,6-Dimethylnaphthalene	45		49		40-140	9		30
1-Methylphenanthrene	57		58		40-140	2		30
Perylene	53		53		40-140	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Methylnaphthalene-d10	47		50		30-130
Pyrene-d10	56		55		30-130
Benzo(b)fluoranthene-d12	54		52		30-130

# PCBS

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8082A  
 Analytical Date: 07/08/19 10:58  
 Analyst: DP  
 Percent Solids: 78%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 11:27  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Mansfield Lab</b>							
Aroclor 1016	ND		ug/kg	3.13	1.15	1	A
Aroclor 1221	ND		ug/kg	3.13	1.54	1	A
Aroclor 1232	ND		ug/kg	3.13	1.48	1	A
Aroclor 1242	ND		ug/kg	3.13	1.06	1	A
Aroclor 1248	ND		ug/kg	3.13	1.33	1	A
Aroclor 1254	ND		ug/kg	3.13	1.32	1	A
Aroclor 1260	ND		ug/kg	3.13	1.33	1	A
Aroclor 1262	ND		ug/kg	3.13	1.21	1	A
Aroclor 1268	ND		ug/kg	3.13	1.04	1	A
PCBs, Total	ND		ug/kg	3.13	1.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	51		30-150	B
Decachlorobiphenyl	97		30-150	B
Tetrachloro-meta-Xylene	57		30-150	A
Decachlorobiphenyl	47		30-150	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-02 D  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8082A  
 Analytical Date: 07/08/19 16:34  
 Analyst: DP  
 Percent Solids: 73%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 11:27  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Mansfield Lab</b>							
Aroclor 1016	ND		ug/kg	6.72	2.47	2	A
Aroclor 1221	ND		ug/kg	6.72	3.32	2	A
Aroclor 1232	ND		ug/kg	6.72	3.17	2	A
Aroclor 1242	151.	P	ug/kg	6.72	2.28	2	B
Aroclor 1248	ND		ug/kg	6.72	2.85	2	A
Aroclor 1254	ND		ug/kg	6.72	2.83	2	A
Aroclor 1260	27.1	P	ug/kg	6.72	2.85	2	B
Aroclor 1262	ND		ug/kg	6.72	2.60	2	A
Aroclor 1268	ND		ug/kg	6.72	2.24	2	A
PCBs, Total	178.		ug/kg	6.72	2.24	2	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	39		30-150	B
Decachlorobiphenyl	78		30-150	B
Tetrachloro-meta-Xylene	44		30-150	A
Decachlorobiphenyl	29	Q	30-150	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-03  
 Client ID: B-3  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:15  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8082A  
 Analytical Date: 07/08/19 11:21  
 Analyst: DP  
 Percent Solids: 80%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 11:27  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Mansfield Lab</b>							
Aroclor 1016	ND		ug/kg	3.02	1.11	1	A
Aroclor 1221	ND		ug/kg	3.02	1.49	1	A
Aroclor 1232	ND		ug/kg	3.02	1.42	1	A
Aroclor 1242	3.10		ug/kg	3.02	1.02	1	B
Aroclor 1248	ND		ug/kg	3.02	1.28	1	A
Aroclor 1254	ND		ug/kg	3.02	1.27	1	A
Aroclor 1260	1.44	JP	ug/kg	3.02	1.28	1	B
Aroclor 1262	ND		ug/kg	3.02	1.17	1	A
Aroclor 1268	ND		ug/kg	3.02	1.00	1	A
PCBs, Total	4.54	J	ug/kg	3.02	1.00	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	41		30-150	B
Decachlorobiphenyl	81		30-150	B
Tetrachloro-meta-Xylene	38		30-150	A
Decachlorobiphenyl	31		30-150	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8082A  
 Analytical Date: 07/08/19 11:33  
 Analyst: DP  
 Percent Solids: 83%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 11:27  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Mansfield Lab</b>							
Aroclor 1016	ND		ug/kg	2.94	1.08	1	A
Aroclor 1221	ND		ug/kg	2.94	1.45	1	A
Aroclor 1232	ND		ug/kg	2.94	1.39	1	A
Aroclor 1242	19.3	P	ug/kg	2.94	0.995	1	B
Aroclor 1248	ND		ug/kg	2.94	1.24	1	A
Aroclor 1254	ND		ug/kg	2.94	1.24	1	A
Aroclor 1260	3.49	P	ug/kg	2.94	1.24	1	B
Aroclor 1262	ND		ug/kg	2.94	1.14	1	A
Aroclor 1268	ND		ug/kg	2.94	0.979	1	A
PCBs, Total	22.8		ug/kg	2.94	0.979	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	48		30-150	B
Decachlorobiphenyl	94		30-150	B
Tetrachloro-meta-Xylene	50		30-150	A
Decachlorobiphenyl	39		30-150	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-05  
 Client ID: B-5  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 17:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8082A  
 Analytical Date: 07/08/19 11:45  
 Analyst: DP  
 Percent Solids: 61%

Extraction Method: EPA 3570  
 Extraction Date: 06/24/19 11:27  
 Cleanup Method: EPA 3640A  
 Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Mansfield Lab</b>							
Aroclor 1016	ND		ug/kg	4.02	1.48	1	A
Aroclor 1221	ND		ug/kg	4.02	1.98	1	A
Aroclor 1232	ND		ug/kg	4.02	1.90	1	A
Aroclor 1242	8.04		ug/kg	4.02	1.36	1	B
Aroclor 1248	ND		ug/kg	4.02	1.70	1	A
Aroclor 1254	ND		ug/kg	4.02	1.69	1	A
Aroclor 1260	1.99	JP	ug/kg	4.02	1.70	1	B
Aroclor 1262	ND		ug/kg	4.02	1.55	1	A
Aroclor 1268	ND		ug/kg	4.02	1.34	1	A
PCBs, Total	10.3	J	ug/kg	4.02	1.34	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	60		30-150	B
Decachlorobiphenyl	119		30-150	B
Tetrachloro-meta-Xylene	67		30-150	A
Decachlorobiphenyl	44		30-150	A



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 07/08/19 10:22  
Analyst: DP

Extraction Method: EPA 3570  
Extraction Date: 06/24/19 11:27  
Cleanup Method: EPA 3640A  
Cleanup Date: 06/25/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Mansfield Lab for sample(s): 01-05 Batch: WG1252253-1						
Aroclor 1016	ND		ug/kg	2.50	0.920	A
Aroclor 1221	ND		ug/kg	2.50	1.23	A
Aroclor 1232	ND		ug/kg	2.50	1.18	A
Aroclor 1242	ND		ug/kg	2.50	0.847	A
Aroclor 1248	ND		ug/kg	2.50	1.06	A
Aroclor 1254	ND		ug/kg	2.50	1.05	A
Aroclor 1260	ND		ug/kg	2.50	1.06	A
Aroclor 1262	ND		ug/kg	2.50	0.967	A
Aroclor 1268	ND		ug/kg	2.50	0.833	A
PCBs, Total	ND		ug/kg	2.50	0.833	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	50		30-150	B
Decachlorobiphenyl	92		30-150	B
Tetrachloro-meta-Xylene	47		30-150	A
Decachlorobiphenyl	52		30-150	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG1252253-2 WG1252253-3									
Aroclor 1016	50		60		40-140	18		50	A
Aroclor 1260	57		68		40-140	18		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	44		51		30-150	B
Decachlorobiphenyl	81		97		30-150	B
Tetrachloro-meta-Xylene	54		62		30-150	A
Decachlorobiphenyl	47		55		30-150	A

# PESTICIDES

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8081B  
 Analytical Date: 07/12/19 11:05  
 Analyst: GP  
 Percent Solids: 78%

Extraction Method: EPA 3570  
 Extraction Date: 07/10/19 14:49  
 Cleanup Method: EPA 3630  
 Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Alpha-BHC	ND		ug/kg	0.042	0.042	1	A
Hexachlorobenzene	ND		ug/kg	0.085	0.085	1	A
Beta-BHC	ND		ug/kg	0.042	0.042	1	A
gamma-BHC	ND		ug/kg	0.042	0.042	1	A
Delta-BHC	ND		ug/kg	0.042	0.042	1	A
Heptachlor	ND		ug/kg	0.042	0.042	1	A
Aldrin	ND		ug/kg	0.042	0.042	1	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.042	0.042	1	A
Heptachlor epoxide	ND		ug/kg	0.085	0.085	1	B
Oxychlorane	ND		ug/kg	0.085	0.085	1	B
trans-Chlordane	ND		ug/kg	0.042	0.042	1	A
2,4'-DDE	ND		ug/kg	0.042	0.042	1	A
Endosulfan I	ND		ug/kg	0.042	0.042	1	A
cis-Chlordane	ND		ug/kg	0.042	0.042	1	A
trans-Nonachlor	ND		ug/kg	0.042	0.042	1	A
4,4'-DDE	ND		ug/kg	0.042	0.042	1	A
Dieldrin	ND		ug/kg	0.042	0.042	1	A
2,4'-DDD	ND		ug/kg	0.042	0.042	1	A
Endrin	ND		ug/kg	0.042	0.042	1	A
Endosulfan II	ND		ug/kg	0.042	0.042	1	A
4,4'-DDD	ND		ug/kg	0.042	0.042	1	B
2,4'-DDT	ND		ug/kg	0.042	0.042	1	A
cis-Nonachlor	ND		ug/kg	0.042	0.042	1	A
Endrin aldehyde	ND		ug/kg	0.128	0.128	1	A
Endosulfan sulfate	ND		ug/kg	0.042	0.042	1	B
4,4'-DDT	ND		ug/kg	0.042	0.042	1	B
Endrin ketone	ND		ug/kg	0.042	0.042	1	A
Methoxychlor	ND		ug/kg	0.426	0.426	1	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-01  
 Client ID: B-1  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Mirex	ND		ug/kg	0.042	0.042	1	A
Toxaphene	ND		ug/kg	2.14	2.14	1	A
Chlordane	ND		ug/kg	2.14	2.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	91		30-150	A
Decachlorobiphenyl	89		30-150	A
Tetrachloro-meta-Xylene	83		30-150	B
Decachlorobiphenyl	87		30-150	B

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-02  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8081B  
 Analytical Date: 07/12/19 11:39  
 Analyst: GP  
 Percent Solids: 73%

Extraction Method: EPA 3570  
 Extraction Date: 07/10/19 14:49  
 Cleanup Method: EPA 3630  
 Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Alpha-BHC	ND		ug/kg	0.045	0.045	1	A
Hexachlorobenzene	ND		ug/kg	0.090	0.090	1	A
Beta-BHC	ND		ug/kg	0.045	0.045	1	A
gamma-BHC	ND		ug/kg	0.045	0.045	1	A
Delta-BHC	ND		ug/kg	0.045	0.045	1	A
Heptachlor	ND		ug/kg	0.045	0.045	1	A
Aldrin	ND		ug/kg	0.045	0.045	1	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.045	0.045	1	A
Heptachlor epoxide	ND		ug/kg	0.090	0.090	1	B
Oxychlorane	2.60		ug/kg	0.090	0.090	1	B
trans-Chlordane	2.51		ug/kg	0.045	0.045	1	A
2,4'-DDE	ND		ug/kg	0.045	0.045	1	A
Endosulfan I	ND		ug/kg	0.045	0.045	1	A
cis-Chlordane	0.220		ug/kg	0.045	0.045	1	B
trans-Nonachlor	ND		ug/kg	0.045	0.045	1	A
4,4'-DDE	1.72		ug/kg	0.045	0.045	1	A
Dieldrin	ND		ug/kg	0.045	0.045	1	A
2,4'-DDD	0.671		ug/kg	0.045	0.045	1	A
Endrin	ND		ug/kg	0.045	0.045	1	A
Endosulfan II	ND		ug/kg	0.045	0.045	1	A
4,4'-DDD	1.24		ug/kg	0.045	0.045	1	A
2,4'-DDT	ND		ug/kg	0.045	0.045	1	A
cis-Nonachlor	ND		ug/kg	0.045	0.045	1	A
Endrin aldehyde	ND		ug/kg	0.135	0.135	1	A
Endosulfan sulfate	ND		ug/kg	0.045	0.045	1	B
4,4'-DDT	ND		ug/kg	0.045	0.045	1	B
Endrin ketone	ND		ug/kg	0.045	0.045	1	A
Methoxychlor	ND		ug/kg	0.451	0.451	1	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-02  
**Client ID:** B-2  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 15:40  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Mirex	ND		ug/kg	0.045	0.045	1	A
Toxaphene	ND		ug/kg	2.26	2.26	1	A
Chlordane	ND		ug/kg	2.26	2.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	89		30-150	A
Decachlorobiphenyl	97		30-150	A
Tetrachloro-meta-Xylene	67		30-150	B
Decachlorobiphenyl	95		30-150	B

**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-03  
 Client ID: B-3  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:15  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8081B  
 Analytical Date: 07/12/19 12:13  
 Analyst: GP  
 Percent Solids: 80%

Extraction Method: EPA 3570  
 Extraction Date: 07/10/19 14:49  
 Cleanup Method: EPA 3630  
 Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Alpha-BHC	ND		ug/kg	0.041	0.041	1	A
Hexachlorobenzene	ND		ug/kg	0.082	0.082	1	A
Beta-BHC	ND		ug/kg	0.041	0.041	1	A
gamma-BHC	ND		ug/kg	0.041	0.041	1	A
Delta-BHC	ND		ug/kg	0.041	0.041	1	A
Heptachlor	ND		ug/kg	0.041	0.041	1	A
Aldrin	ND		ug/kg	0.041	0.041	1	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.041	0.041	1	A
Heptachlor epoxide	ND		ug/kg	0.082	0.082	1	B
Oxychlorane	0.108		ug/kg	0.082	0.082	1	B
trans-Chlordane	0.074		ug/kg	0.041	0.041	1	A
2,4'-DDE	ND		ug/kg	0.041	0.041	1	A
Endosulfan I	ND		ug/kg	0.041	0.041	1	A
cis-Chlordane	ND		ug/kg	0.041	0.041	1	B
trans-Nonachlor	ND		ug/kg	0.041	0.041	1	A
4,4'-DDE	0.081		ug/kg	0.041	0.041	1	A
Dieldrin	ND		ug/kg	0.041	0.041	1	A
2,4'-DDD	ND		ug/kg	0.041	0.041	1	A
Endrin	ND		ug/kg	0.041	0.041	1	A
Endosulfan II	ND		ug/kg	0.041	0.041	1	A
4,4'-DDD	0.086		ug/kg	0.041	0.041	1	A
2,4'-DDT	ND		ug/kg	0.041	0.041	1	A
cis-Nonachlor	ND		ug/kg	0.041	0.041	1	A
Endrin aldehyde	ND		ug/kg	0.123	0.123	1	A
Endosulfan sulfate	ND		ug/kg	0.041	0.041	1	B
4,4'-DDT	ND		ug/kg	0.041	0.041	1	B
Endrin ketone	ND		ug/kg	0.041	0.041	1	A
Methoxychlor	ND		ug/kg	0.411	0.411	1	A



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-03  
**Client ID:** B-3  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 16:15  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Mirex	ND		ug/kg	0.041	0.041	1	A
Toxaphene	ND		ug/kg	2.06	2.06	1	A
Chlordane	ND		ug/kg	2.06	2.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	96		30-150	A
Decachlorobiphenyl	96		30-150	A
Tetrachloro-meta-Xylene	92		30-150	B
Decachlorobiphenyl	97		30-150	B

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8081B  
 Analytical Date: 07/12/19 12:47  
 Analyst: GP  
 Percent Solids: 83%

Extraction Method: EPA 3570  
 Extraction Date: 07/10/19 14:49  
 Cleanup Method: EPA 3630  
 Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Alpha-BHC	ND		ug/kg	0.039	0.039	1	A
Hexachlorobenzene	ND		ug/kg	0.079	0.079	1	A
Beta-BHC	ND		ug/kg	0.039	0.039	1	A
gamma-BHC	ND		ug/kg	0.039	0.039	1	A
Delta-BHC	ND		ug/kg	0.039	0.039	1	A
Heptachlor	ND		ug/kg	0.039	0.039	1	A
Aldrin	ND		ug/kg	0.039	0.039	1	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.039	0.039	1	A
Heptachlor epoxide	ND		ug/kg	0.079	0.079	1	B
Oxychlorane	ND		ug/kg	0.079	0.079	1	A
trans-Chlordane	ND		ug/kg	0.039	0.039	1	A
2,4'-DDE	ND		ug/kg	0.039	0.039	1	A
Endosulfan I	ND		ug/kg	0.039	0.039	1	A
cis-Chlordane	ND		ug/kg	0.039	0.039	1	A
trans-Nonachlor	ND		ug/kg	0.039	0.039	1	A
4,4'-DDE	0.128		ug/kg	0.039	0.039	1	A
Dieldrin	ND		ug/kg	0.039	0.039	1	A
2,4'-DDD	ND		ug/kg	0.039	0.039	1	A
Endrin	ND		ug/kg	0.039	0.039	1	A
Endosulfan II	ND		ug/kg	0.039	0.039	1	A
4,4'-DDD	0.149		ug/kg	0.039	0.039	1	A
2,4'-DDT	ND		ug/kg	0.039	0.039	1	A
cis-Nonachlor	ND		ug/kg	0.039	0.039	1	A
Endrin aldehyde	ND		ug/kg	0.119	0.119	1	A
Endosulfan sulfate	ND		ug/kg	0.039	0.039	1	B
4,4'-DDT	ND		ug/kg	0.039	0.039	1	B
Endrin ketone	ND		ug/kg	0.039	0.039	1	A
Methoxychlor	ND		ug/kg	0.396	0.396	1	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-04  
 Client ID: B-4  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 16:45  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Mirex	ND		ug/kg	0.039	0.039	1	A
Toxaphene	ND		ug/kg	1.99	1.99	1	A
Chlordane	ND		ug/kg	1.99	1.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	92		30-150	A
Decachlorobiphenyl	96		30-150	A
Tetrachloro-meta-Xylene	82		30-150	B
Decachlorobiphenyl	93		30-150	B

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-05  
 Client ID: B-5  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 17:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 1,8081B  
 Analytical Date: 07/12/19 13:21  
 Analyst: GP  
 Percent Solids: 61%

Extraction Method: EPA 3570  
 Extraction Date: 07/10/19 14:49  
 Cleanup Method: EPA 3630  
 Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Alpha-BHC	ND		ug/kg	0.054	0.054	1	A
Hexachlorobenzene	ND		ug/kg	0.108	0.108	1	A
Beta-BHC	ND		ug/kg	0.054	0.054	1	A
gamma-BHC	ND		ug/kg	0.054	0.054	1	A
Delta-BHC	ND		ug/kg	0.054	0.054	1	A
Heptachlor	ND		ug/kg	0.054	0.054	1	A
Aldrin	ND		ug/kg	0.054	0.054	1	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.054	0.054	1	A
Heptachlor epoxide	ND		ug/kg	0.108	0.108	1	B
Oxychlordane	ND		ug/kg	0.108	0.108	1	A
trans-Chlordane	ND		ug/kg	0.054	0.054	1	A
2,4'-DDE	ND		ug/kg	0.054	0.054	1	A
Endosulfan I	ND		ug/kg	0.054	0.054	1	A
cis-Chlordane	ND		ug/kg	0.054	0.054	1	A
trans-Nonachlor	ND		ug/kg	0.054	0.054	1	A
4,4'-DDE	0.086		ug/kg	0.054	0.054	1	A
Dieldrin	ND		ug/kg	0.054	0.054	1	A
2,4'-DDD	0.658		ug/kg	0.054	0.054	1	A
Endrin	ND		ug/kg	0.054	0.054	1	A
Endosulfan II	ND		ug/kg	0.054	0.054	1	A
4,4'-DDD	0.131		ug/kg	0.054	0.054	1	B
2,4'-DDT	ND		ug/kg	0.054	0.054	1	A
cis-Nonachlor	ND		ug/kg	0.054	0.054	1	A
Endrin aldehyde	ND		ug/kg	0.162	0.162	1	A
Endosulfan sulfate	ND		ug/kg	0.054	0.054	1	B
4,4'-DDT	ND		ug/kg	0.054	0.054	1	B
Endrin ketone	ND		ug/kg	0.054	0.054	1	A
Methoxychlor	ND		ug/kg	0.541	0.541	1	A

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

Lab ID: L1925812-05  
 Client ID: B-5  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 17:10  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Mansfield Lab</b>							
Mirex	ND		ug/kg	0.054	0.054	1	A
Toxaphene	ND		ug/kg	2.72	2.72	1	A
Chlordane	ND		ug/kg	2.72	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	101		30-150	A
Decachlorobiphenyl	98		30-150	A
Tetrachloro-meta-Xylene	88		30-150	B
Decachlorobiphenyl	91		30-150	B

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 07/12/19 09:22  
Analyst: GP

Extraction Method: EPA 3570  
Extraction Date: 07/10/19 14:49  
Cleanup Method: EPA 3630  
Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Mansfield Lab for sample(s): 01-05 Batch: WG1258153-1						
Alpha-BHC	ND		ug/kg	0.033	0.033	A
Hexachlorobenzene	ND		ug/kg	0.066	0.066	A
Beta-BHC	ND		ug/kg	0.033	0.033	A
gamma-BHC	ND		ug/kg	0.033	0.033	A
Delta-BHC	ND		ug/kg	0.033	0.033	A
Heptachlor	ND		ug/kg	0.033	0.033	A
Aldrin	ND		ug/kg	0.033	0.033	A
Chloropyrifos <sup>1</sup>	ND		ug/kg	0.033	0.033	A
trans-Chlordane	ND		ug/kg	0.033	0.033	A
2,4'-DDE	ND		ug/kg	0.033	0.033	A
Endosulfan I	ND		ug/kg	0.033	0.033	A
cis-Chlordane	ND		ug/kg	0.033	0.033	A
trans-Nonachlor	ND		ug/kg	0.033	0.033	A
4,4'-DDE	ND		ug/kg	0.033	0.033	A
Dieldrin	ND		ug/kg	0.033	0.033	A
2,4'-DDD	ND		ug/kg	0.033	0.033	A
Endrin	ND		ug/kg	0.033	0.033	A
Endosulfan II	ND		ug/kg	0.033	0.033	A
4,4'-DDD	ND		ug/kg	0.033	0.033	A
2,4'-DDT	ND		ug/kg	0.033	0.033	A
cis-Nonachlor	ND		ug/kg	0.033	0.033	A
Endrin aldehyde	ND		ug/kg	0.100	0.100	A
Endrin ketone	ND		ug/kg	0.033	0.033	A
Methoxychlor	ND		ug/kg	0.333	0.333	A
Mirex	ND		ug/kg	0.033	0.033	A
Toxaphene	ND		ug/kg	1.67	1.67	A
Chlordane	ND		ug/kg	1.67	1.67	A
Heptachlor epoxide	ND		ug/kg	0.066	0.066	B
Oxychlordane	ND		ug/kg	0.066	0.066	B

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 07/12/19 09:22  
Analyst: GP

Extraction Method: EPA 3570  
Extraction Date: 07/10/19 14:49  
Cleanup Method: EPA 3630  
Cleanup Date: 07/11/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Mansfield Lab for sample(s): 01-05 Batch: WG1258153-1						
Endosulfan sulfate	ND		ug/kg	0.033	0.033	B
4,4'-DDT	ND		ug/kg	0.033	0.033	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	86		30-150	A
Decachlorobiphenyl	85		30-150	A
Tetrachloro-meta-Xylene	79		30-150	B
Decachlorobiphenyl	83		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1925812

Report Date: 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG1258153-2 WG1258153-3									
Alpha-BHC	93		100		40-140	7		50	A
Hexachlorobenzene	78		87		40-140	11		50	A
Beta-BHC	85		94		40-140	10		50	A
gamma-BHC	90		97		40-140	7		50	A
Delta-BHC	96		103		40-140	7		50	A
Heptachlor	82		89		40-140	8		50	A
Aldrin	83		91		40-140	9		50	A
trans-Chlordane	89		96		40-140	8		50	A
2,4'-DDE	76		81		40-140	6		50	A
Endosulfan I	88		94		40-140	7		50	A
cis-Chlordane	82		88		40-140	7		50	A
trans-Nonachlor	84		91		40-140	8		50	A
4,4'-DDE	91		98		40-140	7		50	A
Dieldrin	90		97		40-140	7		50	A
2,4'-DDD	91		98		40-140	7		50	A
Endrin	87		93		40-140	7		50	A
Endosulfan II	85		93		40-140	9		50	A
4,4'-DDD	95		103		40-140	8		50	A
2,4'-DDT	91		99		40-140	8		50	A
cis-Nonachlor	87		94		40-140	8		50	A
Endrin aldehyde	74		82		40-140	10		50	A
Endosulfan sulfate	98		109		40-140	11		50	A
4,4'-DDT	99		109		40-140	10		50	A



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1925812

Report Date: 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG1258153-2 WG1258153-3								
Endrin ketone	96		109		40-140	13		50 A
Methoxychlor	52		63		40-140	19		50 A
Mirex	68		74		40-140	8		50 A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	82		94		30-150	A
Decachlorobiphenyl	81		94		30-150	A
Tetrachloro-meta-Xylene	75		84		30-150	B
Decachlorobiphenyl	81		93		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Mansfield Lab Associated sample(s): 01-05 Batch: WG1258153-2 WG1258153-3									
Heptachlor epoxide	85		92		40-140	8		50	B
Oxychlorane	91		99		40-140	8		50	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
Tetrachloro-meta-Xylene	82		94		30-150	A
Decachlorobiphenyl	81		94		30-150	A
Tetrachloro-meta-Xylene	75		84		30-150	B
Decachlorobiphenyl	81		93		30-150	B

## METALS

**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-01

Date Collected: 06/13/19 15:10

Client ID: B-1

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Arsenic, Total	2.19		mg/kg	0.619	0.082	10	06/26/19 17:10	06/28/19 16:52	EPA 3050B	1,6020B	AM
Cadmium, Total	0.042	J	mg/kg	0.248	0.033	10	06/26/19 17:10	06/28/19 16:52	EPA 3050B	1,6020B	AM
Copper, Total	3.70		mg/kg	2.48	0.240	10	06/26/19 17:10	06/28/19 16:52	EPA 3050B	1,6020B	AM
Lead, Total	4.08		mg/kg	0.743	0.181	10	06/26/19 17:10	06/28/19 16:52	EPA 3050B	1,6020B	AM
Mercury, Total	0.004	J	mg/kg	0.016	0.002	5	06/26/19 13:39	06/27/19 11:31	EPA 7474	1,7474	CD



**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-02

Date Collected: 06/13/19 15:40

Client ID: B-2

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Arsenic, Total	3.96		mg/kg	0.647	0.085	10	06/26/19 17:10	06/28/19 16:56	EPA 3050B	1,6020B	AM
Cadmium, Total	0.306		mg/kg	0.259	0.034	10	06/26/19 17:10	06/28/19 16:56	EPA 3050B	1,6020B	AM
Copper, Total	17.6		mg/kg	2.59	0.251	10	06/26/19 17:10	06/28/19 16:56	EPA 3050B	1,6020B	AM
Lead, Total	18.9		mg/kg	0.776	0.189	10	06/26/19 17:10	06/28/19 16:56	EPA 3050B	1,6020B	AM
Mercury, Total	0.041		mg/kg	0.018	0.002	5	06/26/19 13:39	06/27/19 11:33	EPA 7474	1,7474	CD



**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-03

Date Collected: 06/13/19 16:15

Client ID: B-3

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Arsenic, Total	4.47		mg/kg	0.587	0.078	10	06/26/19 17:10	06/28/19 17:00	EPA 3050B	1,6020B	AM
Cadmium, Total	0.045	J	mg/kg	0.235	0.031	10	06/26/19 17:10	06/28/19 17:00	EPA 3050B	1,6020B	AM
Copper, Total	4.03		mg/kg	2.35	0.228	10	06/26/19 17:10	06/28/19 17:00	EPA 3050B	1,6020B	AM
Lead, Total	3.48		mg/kg	0.704	0.171	10	06/26/19 17:10	06/28/19 17:00	EPA 3050B	1,6020B	AM
Mercury, Total	0.007	J	mg/kg	0.018	0.002	5	06/26/19 13:39	06/27/19 11:36	EPA 7474	1,7474	CD



**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-04

Date Collected: 06/13/19 16:45

Client ID: B-4

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Arsenic, Total	4.13		mg/kg	0.580	0.077	10	06/26/19 17:10	06/28/19 17:05	EPA 3050B	1,6020B	AM
Cadmium, Total	0.047	J	mg/kg	0.232	0.031	10	06/26/19 17:10	06/28/19 17:05	EPA 3050B	1,6020B	AM
Copper, Total	5.00		mg/kg	2.32	0.225	10	06/26/19 17:10	06/28/19 17:05	EPA 3050B	1,6020B	AM
Lead, Total	5.29		mg/kg	0.696	0.169	10	06/26/19 17:10	06/28/19 17:05	EPA 3050B	1,6020B	AM
Mercury, Total	0.011	J	mg/kg	0.015	0.002	5	06/26/19 13:39	06/27/19 11:38	EPA 7474	1,7474	CD



**Project Name:** BEACON ISLAND PROJECT**Lab Number:** L1925812**Project Number:** CD4644**Report Date:** 07/12/19**SAMPLE RESULTS**

Lab ID: L1925812-05

Date Collected: 06/13/19 17:10

Client ID: B-5

Date Received: 06/14/19

Sample Location: PORT OF ALBANY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Arsenic, Total	4.75		mg/kg	0.784	0.104	10	06/26/19 17:10	06/28/19 17:09	EPA 3050B	1,6020B	AM
Cadmium, Total	0.091	J	mg/kg	0.314	0.041	10	06/26/19 17:10	06/28/19 17:09	EPA 3050B	1,6020B	AM
Copper, Total	6.52		mg/kg	3.14	0.304	10	06/26/19 17:10	06/28/19 17:09	EPA 3050B	1,6020B	AM
Lead, Total	5.56		mg/kg	0.941	0.229	10	06/26/19 17:10	06/28/19 17:09	EPA 3050B	1,6020B	AM
Mercury, Total	0.008	J	mg/kg	0.019	0.002	5	06/26/19 13:39	06/27/19 11:41	EPA 7474	1,7474	CD





**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

## 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): 01-05 Batch: WG1253364-1									
Arsenic, Total	ND	mg/kg	0.500	0.066	10	06/26/19 17:10	06/28/19 15:50	1,6020B	AM
Cadmium, Total	ND	mg/kg	0.200	0.026	10	06/26/19 17:10	06/28/19 15:50	1,6020B	AM
Copper, Total	ND	mg/kg	2.00	0.194	10	06/26/19 17:10	06/28/19 15:50	1,6020B	AM
Lead, Total	ND	mg/kg	0.600	0.146	10	06/26/19 17:10	06/28/19 15:50	1,6020B	AM

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1253366-1									
Mercury, Total	ND	mg/kg	0.013	0.002	5	06/26/19 13:39	06/27/19 10:07	1,7474	CD

### Prep Information

Digestion Method: EPA 7474

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT

**Project Number:** CD4644

**Lab Number:** L1925812

**Report Date:** 07/12/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1253364-2 SRM Lot Number: D105-540								
Arsenic, Total	110		-		70-130	-		20
Cadmium, Total	109		-		75-125	-		20
Copper, Total	100		-		75-125	-		20
Lead, Total	98		-		71-128	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1253366-2 SRM Lot Number: D105-540								
Mercury, Total	84		-		60-141	-		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

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): 01-05    QC Batch ID: WG1253364-3    QC Sample: L1925766-05    Client ID: MS Sample												
Arsenic, Total	244	22.4	267	102		-	-		75-125	-		20
Cadmium, Total	15.0	9.53	25.0	105		-	-		75-125	-		20
Copper, Total	724	46.7	770	98		-	-		75-125	-		20
Lead, Total	757	95.3	874	123		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-05    QC Batch ID: WG1253366-3    QC Sample: L1925766-05    Client ID: MS Sample												
Mercury, Total	5.44	1.37	7.37	141	Q	-	-		80-120	-		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1925812

Report Date: 07/12/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1253364-4 QC Sample: L1925766-05 Client ID: DUP Sample						
Arsenic, Total	244	220	mg/kg	10		20
Cadmium, Total	15.0	13.8	mg/kg	8		20
Copper, Total	724	646	mg/kg	11		20
Lead, Total	757	703	mg/kg	7		20
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1253366-4 QC Sample: L1925766-05 Client ID: DUP Sample						
Mercury, Total	5.44	5.58	mg/kg	3		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-01  
**Client ID:** B-1  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 15:10  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		mg/kg	1.2	0.26	1	06/16/19 13:35	06/17/19 13:30	1,9010C/9012B	LH
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	78.1		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-02  
**Client ID:** B-2  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 15:40  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		mg/kg	1.3	0.27	1	06/16/19 13:35	06/17/19 13:33	1,9010C/9012B	LH
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	73.4		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-03  
**Client ID:** B-3  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 16:15  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		mg/kg	1.2	0.26	1	06/16/19 13:35	06/17/19 13:57	1,9010C/9012B	LH
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	80.3		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC





**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-04  
**Client ID:** B-4  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 16:45  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		mg/kg	1.2	0.24	1	06/16/19 13:35	06/17/19 13:35	1,9010C/9012B	LH
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	82.9		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

**SAMPLE RESULTS**

**Lab ID:** L1925812-05  
**Client ID:** B-5  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 17:10  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Cyanide, Total	ND		mg/kg	1.6	0.34	1	06/16/19 13:35	06/17/19 13:39	1,9010C/9012B	LH
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	61.3		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC



Project Name: BEACON ISLAND PROJECT

Lab Number: L1925812

Project Number: CD4644

Report Date: 07/12/19

**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): 02-04 Batch: WG1249185-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	06/16/19 13:35	06/17/19 13:15	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01,05 Batch: WG1249186-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	06/16/19 13:35	06/17/19 13:16	1,9010C/9012B	LH

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT

**Project Number:** CD4644

**Lab Number:** L1925812

**Report Date:** 07/12/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1249185-2 WG1249185-3								
Cyanide, Total	74	Q	85		80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 01,05 Batch: WG1249186-2 WG1249186-3								
Cyanide, Total	74	Q	84		80-120	4		35

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1249185-4 WG1249185-5 QC Sample: L1925787-01 Client ID: MS Sample												
Cyanide, Total	ND	10	8.9	88		9.9	98		75-125	11		35
General Chemistry - Westborough Lab Associated sample(s): 01,05 QC Batch ID: WG1249186-4 WG1249186-5 QC Sample: L1925812-01 Client ID: B-1												
Cyanide, Total	ND	12	11	92		11	90		75-125	0		35

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND PROJECT

**Project Number:** CD4644

**Lab Number:** L1925812

**Report Date:** 07/12/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1250161-1 QC Sample: L1925766-03 Client ID: DUP Sample						
Solids, Total	50.1	48.6	%	3		10

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Serial\_No:**07121915:16  
**Lab Number:** L1925812  
**Report Date:** 07/12/19

**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(*)
L1925812-01A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-01B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14)
L1925812-01C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-01D	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-01E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-01F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-01X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-01Y	Vial Water preserved split	A	NA		3.5	Y	Absent	24-JUN-19 12:30	NYTCL-8260-BTEX(14)
L1925812-01Z	Vial Water preserved split	A	NA		3.5	Y	Absent	24-JUN-19 12:30	NYTCL-8260-BTEX(14)
L1925812-02A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-02B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14)

\*Values in parentheses indicate holding time in days



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Serial\_No:**07121915:16  
**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925812-02C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-02D	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-02E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-02F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-02X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-02Y	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-02Z	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-03A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-03B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14)
L1925812-03C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-03D	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)

\*Values in parentheses indicate holding time in days





**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Serial\_No:**07121915:16  
**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925812-03E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-03F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-03X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-03Y	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-03Z	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-04A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-04B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14)
L1925812-04C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-04D	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-04E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-04F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)

\*Values in parentheses indicate holding time in days



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Serial\_No:**07121915:16  
**Lab Number:** L1925812  
**Report Date:** 07/12/19

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1925812-04X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-04Y	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-04Z	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-05A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-05B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14)
L1925812-05C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-05D	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-05E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-05F	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		A2-PB-6020T(180),A2-HG-7474T(28),HOLD-1613(365),A2-TS(7),A2-AS-6020T(180),A2-PEST-8081-LOW(14),A2-CD-6020T(180),A2-HGPREP-AF(28),A2-PCB-8082-LOW(14),A2-PREP-3050:2T(180),A2-CU-6020T(180),A2-PAH-8270SIM-FULL(14),A2-PREP-3050:1T(180)
L1925812-05X	Vial MeOH preserved split	A	NA		3.5	Y	Absent		NYTCL-8260-BTEX(14)
L1925812-05Y	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)
L1925812-05Z	Vial Water preserved split	A	NA		3.5	Y	Absent	<b>24-JUN-19 12:30</b>	NYTCL-8260-BTEX(14)

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

## 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. 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:** BEACON ISLAND PROJECT  
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- 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:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1925812  
**Report Date:** 07/12/19

## 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.



## Certification Information

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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

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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**

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



# ATLANTIC TESTING LABORATORIES

## Environmental Chain-Of-Custody Record

NO: 12602  
L1925812

**Albany**  
22 Corporate Drive  
Clifton Park, NY 12065  
518/383-9144 (T)  
518/383-9166 (F)  
labsAT@atlantictesting.com

**Binghamton**  
126 Park Avenue  
Binghamton, NY 13903  
607/773-1812 (T)  
607/773-1835 (F)  
labsBT@atlantictesting.com

**Canton**  
6431 U.S. Highway 11  
Canton, NY 13617  
315/386-4578 (T)  
315/386-1012 (F)  
labsCT@atlantictesting.com

**Elmira**  
2330 Route 352  
Elmira, NY 14903  
607/737-0700 (T)  
607/737-0714 (F)  
labsET@atlantictesting.com

**Plattsburgh**  
130 Arizona Ave  
Plattsburgh, NY 12903  
518/563-5878 (T)  
518/562-1321 (F)  
labsPL@atlantictesting.com

**Poughkeepsie**  
251 Upper North Road  
Highland, NY 12528  
845/691-6098 (T)  
845/691-6099 (F)  
labsPT@atlantictesting.com

**Rochester**  
3495 Winton Place  
Rochester, NY 14623  
585/427-9020 (T)  
585/427-9021 (F)  
labsRT@atlantictesting.com

**Syracuse**  
6085 Court Street Road  
Syracuse, NY 13206  
315/699-5281 (T)  
315/699-3374 (F)  
labsST@atlantictesting.com

**Utica**  
301 St. Anthony Street  
Utica, NY 13501  
315/735-3309 (T)  
315/735-0742 (F)  
labsUT@atlantictesting.com

**Watertown**  
26581 NYS Route 283  
Watertown, NY 13601  
315/786-7887 (T)  
315/786-2022 (F)  
labsWT@atlantictesting.com

Project No.		Client Name		QA/QC Code		Parameters						Report Distribution			
CD4644		McFarland Johnson		<input type="checkbox"/> NYSDEC <input type="checkbox"/> SW-846 <input type="checkbox"/> NYSDOH <input type="checkbox"/> CLP <input type="checkbox"/> Other		EPA 8082-PCB Dioxin EPA 8081 - Pesticides Benzene PATEX's EPA 8270 Total PAH Ar. Cd, Cu, Pb, Hg Cyanide						Dates Required: 5-DAY JAT Send Report To: tparker@labsCT.com E-mail Results: @atlantictesting.com			
Page 1 of 1		Project Contact: Timothy Parker		Project Location: Port of Albany								Laboratory Sample ID No.			
Project Name: Beacon Island Project												Notes			
Date	Time	Field Sample No.	Sample Location	Sample Type	No. of Containers	EPA 8082-PCB	Dioxin	EPA 8081 - Pesticides	Benzene	PATEX's	EPA 8270	Total PAH	Ar. Cd, Cu, Pb, Hg	Cyanide	Notes
6/13/19	1510	---	B-1	C, Sed	6	X	X	X	X	X	X	X	X	X	HOLD ANALYSIS M. DUBOIS
6/13/19	1540	---	B-2	C, Sed	6	X	X	X	X	X	X	X	X		
6/13/19	1625	---	B-3	C, Sed	6	X	X	X	X	X	X	X	X		
6/13/19	1645	---	B-4	C, Sed	6	X	X	X	X	X	X	X	X		
6/13/19	1710	---	B-5	C, Sed	6	X	X	X	X	X	X	X	X		

Samplers Name: Timothy Parker	Date: 6/13/19	Received for Name: H. Hicks	Date: 6/14	Shipment Rec'd Intact?
Samplers Signature: [Signature]	Time: 1800	Laboratory Signature: H. Hicks	Time: 12:30	<input type="checkbox"/> YES <input type="checkbox"/> NO

Samples Relinquished By:		Samples Received By:		Sample Type Code Key:		Laboratory Remarks	
Name: Timothy Parker	Date: 6/14/19	Name: [Signature]	Date: 6/14/19	Composite	Q	QA/QC	
Signature: [Signature]	Time: [Time]	Signature: [Signature]	Time: 11:20	Grab	O	Other	
Name: H. Hicks	Date: 6/14/19	Name: H. Hicks	Date: 6/14	DW	S	Soil	
Signature: [Signature]	Time: 11:55	Signature: H. Hicks	Time: 10:35	GW	SL	Sludge	
				WW	WS	Solid Waste	
				SM	B	Bulk	
				O	WP	Wipe	
				L	A	Air	

Think Quality

Distribution: White with Samples  
Yellow to Laboratory  
Pink to ATL Files



## ANALYTICAL REPORT

Lab Number:	L1931057
Client:	Atlantic Testing Laboratories, Limited 6431 US Highway 11 PO Box 29 Canton, NY 13617
ATTN:	Tim S. Parker
Phone:	(315) 386-4578
Project Name:	BEACON ISLAND PROJECT
Project Number:	CD4644
Report Date:	07/29/19

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).

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





**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1931057-01	B-2	SEDIMENT	PORT OF ALBANY	06/13/19 15:40	06/14/19

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

### 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.

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**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

### 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.

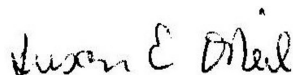
#### Dioxins & Furans by Isotope Dilution HRMS

The WG1264033-4/-5 MS/MSD recoveries, performed on L1931057-01, are outside the acceptance criteria for ocdd (194%/167%); however, the associated LCS recoveries are within overall method allowances. No further action was required.

The WG1264033-5 MSD recovery, performed on L1931057-01, is outside the acceptance criteria for 1,2,3,7,8-pecdf (70%); however, the associated LCS 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:



Susan O'Neil

Title: Technical Director/Representative

Date: 07/29/19

# ORGANICS

# **SEMIVOLATILES**

**High Resolution Mass Spectrometry**

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

**SAMPLE RESULTS**

Lab ID: L1931057-01  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Sediment  
 Analytical Method: 132,1613B  
 Analytical Date: 07/28/19 15:55  
 Analyst: PB  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 07/24/19 16:47  
 Cleanup Method: EPA 1613B  
 Cleanup Date: 07/26/19

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
<b>Dioxins &amp; Furans by Isotope Dilution HRMS - Mansfield Lab</b>							
2,3,7,8-TCDD	ND			pg/g	0.681	0.210	1
1,2,3,7,8-PeCDD	ND			pg/g	3.40	0.500	1
1,2,3,4,7,8-HxCDD	ND			pg/g	3.40	0.752	1
1,2,3,6,7,8-HxCDD	ND			pg/g	3.40	0.584	1
1,2,3,7,8,9-HxCDD	ND			pg/g	3.40	0.522	1
1,2,3,4,6,7,8-HpCDD	3.96			pg/g	3.40	0.369	1
OCDD	29.6			pg/g	6.81	0.722	1
2,3,7,8-TCDF	ND			pg/g	0.681	0.188	1
1,2,3,7,8-PeCDF	ND			pg/g	3.40	0.409	1
2,3,4,7,8-PeCDF	ND			pg/g	3.40	0.342	1
1,2,3,4,7,8-HxCDF	ND			pg/g	3.40	0.436	1
1,2,3,6,7,8-HxCDF	ND			pg/g	3.40	0.477	1
1,2,3,7,8,9-HxCDF	ND			pg/g	3.40	0.387	1
2,3,4,6,7,8-HxCDF	ND			pg/g	3.40	0.414	1
1,2,3,4,6,7,8-HpCDF	ND			pg/g	3.40	0.540	1
1,2,3,4,7,8,9-HpCDF	ND			pg/g	3.40	0.373	1
OCDF	ND			pg/g	6.81	1.15	1
Total TCDD	ND			pg/g	0.681	0.210	1
Total PeCDD	ND			pg/g	3.40	0.500	1
Total HxCDD	ND			pg/g	3.40	0.752	1
Total HpCDD	3.96			pg/g	3.40	0.369	1
Total TCDF	ND			pg/g	0.681	0.188	1
Total PeCDF	ND			pg/g	3.40	0.409	1
Total HxCDF	ND			pg/g	3.40	0.436	1
Total HpCDF	ND			pg/g	3.40	0.540	1
Total PCDD	33.6			pg/g	0.681	0.210	1
Total PCDF	ND			pg/g	0.681	0.188	1
Toxic Equivalency (TEQ)	0.049			pg/g	0.002	0.002	1

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

**SAMPLE RESULTS**

Lab ID: L1931057-01  
 Client ID: B-2  
 Sample Location: PORT OF ALBANY

Date Collected: 06/13/19 15:40  
 Date Received: 06/14/19  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins &amp; Furans by Isotope Dilution HRMS - Mansfield Lab

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	81		24-169
13C12-2,3,7,8-TCDD	89		25-164
13C12-1,2,3,7,8-PeCDF	92		24-185
13C12-2,3,4,7,8-PeCDF	91		21-178
13C12-1,2,3,7,8-PeCDD	100		25-181
13C12-1,2,3,4,7,8-HxCDF	84		26-152
13C12-1,2,3,6,7,8-HxCDF	92		26-123
13C12-2,3,4,6,7,8-HxCDF	86		28-136
13C12-1,2,3,7,8,9-HxCDF	86		29-147
13C12-1,2,3,4,7,8-HxCDD	85		32-141
13C12-1,2,3,6,7,8-HxCDD	92		28-130
13C12-1,2,3,4,6,7,8-HpCDF	89		28-143
13C12-1,2,3,4,7,8,9-HpCDF	91		26-138
13C12-1,2,3,4,6,7,8-HpCDD	91		23-140
13C12-OCDD	91		17-157
37CL4-2,3,7,8-TCDD	91		35-197

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 132,1613B  
**Analytical Date:** 07/28/19 10:35  
**Analyst:** PB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/24/19 16:47  
**Cleanup Method:** EPA 1613B  
**Cleanup Date:** 07/26/19

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1264033-1						
2,3,7,8-TCDD	ND			pg/g	0.500	0.154
1,2,3,7,8-PeCDD	ND			pg/g	2.50	0.367
1,2,3,4,7,8-HxCDD	ND			pg/g	2.50	0.552
1,2,3,6,7,8-HxCDD	ND			pg/g	2.50	0.429
1,2,3,7,8,9-HxCDD	ND			pg/g	2.50	0.383
1,2,3,4,6,7,8-HpCDD	ND			pg/g	2.50	0.271
OCDD	ND			pg/g	5.00	0.530
2,3,7,8-TCDF	ND			pg/g	0.500	0.138
1,2,3,7,8-PeCDF	ND			pg/g	2.50	0.300
2,3,4,7,8-PeCDF	ND			pg/g	2.50	0.251
1,2,3,4,7,8-HxCDF	ND			pg/g	2.50	0.320
1,2,3,6,7,8-HxCDF	ND			pg/g	2.50	0.350
1,2,3,7,8,9-HxCDF	ND			pg/g	2.50	0.284
2,3,4,6,7,8-HxCDF	ND			pg/g	2.50	0.304
1,2,3,4,6,7,8-HpCDF	ND			pg/g	2.50	0.396
1,2,3,4,7,8,9-HpCDF	ND			pg/g	2.50	0.274
OCDF	ND			pg/g	5.00	0.845
Total TCDD	ND			pg/g	0.500	0.154
Total PeCDD	ND			pg/g	2.50	0.367
Total HxCDD	ND			pg/g	2.50	0.552
Total HpCDD	ND			pg/g	2.50	0.271
Total TCDF	ND			pg/g	0.500	0.138
Total PeCDF	ND			pg/g	2.50	0.300
Total HxCDF	ND			pg/g	2.50	0.320
Total HpCDF	ND			pg/g	2.50	0.396
Total PCDD	ND			pg/g	0.500	0.154
Total PCDF	ND			pg/g	0.500	0.138
Toxic Equivalency (TEQ)	ND			pg/g	0.002	0.002



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 132,1613B  
**Analytical Date:** 07/28/19 10:35  
**Analyst:** PB

**Extraction Method:** EPA 3546  
**Extraction Date:** 07/24/19 16:47  
**Cleanup Method:** EPA 1613B  
**Cleanup Date:** 07/26/19

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1264033-1						

Surrogate/Cleanup Standard	%Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	76		24-169
13C12-2,3,7,8-TCDD	83		25-164
13C12-1,2,3,7,8-PeCDF	84		24-185
13C12-2,3,4,7,8-PeCDF	75		21-178
13C12-1,2,3,7,8-PeCDD	87		25-181
13C12-1,2,3,4,7,8-HxCDF	90		26-152
13C12-1,2,3,6,7,8-HxCDF	92		26-123
13C12-2,3,4,6,7,8-HxCDF	80		28-136
13C12-1,2,3,7,8,9-HxCDF	88		29-147
13C12-1,2,3,4,7,8-HxCDD	80		32-141
13C12-1,2,3,6,7,8-HxCDD	90		28-130
13C12-1,2,3,4,6,7,8-HpCDF	95		28-143
13C12-1,2,3,4,7,8,9-HpCDF	97		26-138
13C12-1,2,3,4,6,7,8-HpCDD	92		23-140
13C12-OCDD	88		17-157
37CL4-2,3,7,8-TCDD	86		35-197

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1931057

Report Date: 07/29/19

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1264033-2								
2,3,7,8-TCDD	92		-		67-158	-		25
1,2,3,7,8-PeCDD	88		-		70-142	-		25
1,2,3,4,7,8-HxCDD	100		-		70-164	-		25
1,2,3,6,7,8-HxCDD	105		-		76-134	-		25
1,2,3,7,8,9-HxCDD	95		-		64-162	-		25
1,2,3,4,6,7,8-HpCDD	99		-		70-140	-		25
OCDD	98		-		78-144	-		25
2,3,7,8-TCDF	111		-		75-158	-		25
1,2,3,7,8-PeCDF	88		-		80-134	-		25
2,3,4,7,8-PeCDF	102		-		68-160	-		25
1,2,3,4,7,8-HxCDF	107		-		72-134	-		25
1,2,3,6,7,8-HxCDF	105		-		84-130	-		25
1,2,3,7,8,9-HxCDF	98		-		78-130	-		25
2,3,4,6,7,8-HxCDF	109		-		70-156	-		25
1,2,3,4,6,7,8-HpCDF	105		-		82-122	-		25
1,2,3,4,7,8,9-HpCDF	106		-		78-138	-		25
OCDF	95		-		63-170	-		25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

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

Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1264033-2

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDF	73				24-169
13C12-2,3,7,8-TCDD	81				25-164
13C12-1,2,3,7,8-PeCDF	83				24-185
13C12-2,3,4,7,8-PeCDF	83				21-178
13C12-1,2,3,7,8-PeCDD	95				25-181
13C12-1,2,3,4,7,8-HxCDF	84				26-152
13C12-1,2,3,6,7,8-HxCDF	88				26-123
13C12-2,3,4,6,7,8-HxCDF	79				28-136
13C12-1,2,3,7,8,9-HxCDF	83				29-147
13C12-1,2,3,4,7,8-HxCDD	83				32-141
13C12-1,2,3,6,7,8-HxCDD	86				28-130
13C12-1,2,3,4,6,7,8-HpCDF	86				28-143
13C12-1,2,3,4,7,8,9-HpCDF	88				26-138
13C12-1,2,3,4,6,7,8-HpCDD	89				23-140
13C12-OCDD	88				17-157
37CL4-2,3,7,8-TCDD	85				35-197

### Matrix Spike Analysis Batch Quality Control

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1264033-4 WG1264033-5 QC Sample: L1931057-01 Client ID: B-2												
2,3,7,8-TCDD	ND	13.6	11.1	82		9.83	73		67-158	12		25
1,2,3,7,8-PeCDD	ND	68.1	56.4	83		47.0	70		70-142	18		25
1,2,3,4,7,8-HxCDD	ND	68.1	62.0	91		53.5	80		70-164	15		25
1,2,3,6,7,8-HxCDD	ND	68.1	67.8	100		58.2	87		76-134	15		25
1,2,3,7,8,9-HxCDD	ND	68.1	58.4	86		52.5	78		64-162	11		25
1,2,3,4,6,7,8-HpCDD	3.96	68.1	80.6	113		69.7	98		70-140	15		25
OCDD	29.6	136	294	194	Q	254	167	Q	78-144	15		25
2,3,7,8-TCDF	ND	13.6	15.1	111		12.0	90		75-158	23		25
1,2,3,7,8-PeCDF	ND	68.1	55.4	81		46.7	70	Q	80-134	17		25
2,3,4,7,8-PeCDF	ND	68.1	63.9	94		57.4	86		68-160	11		25
1,2,3,4,7,8-HxCDF	ND	68.1	69.3	102		57.8	86		72-134	18		25
1,2,3,6,7,8-HxCDF	ND	68.1	66.1	97		56.5	84		84-130	16		25
1,2,3,7,8,9-HxCDF	ND	68.1	62.0	91		52.4	78		78-130	17		25
2,3,4,6,7,8-HxCDF	ND	68.1	69.3	102		61.2	91		70-156	12		25
1,2,3,4,6,7,8-HpCDF	ND	68.1	67.2	99		58.0	87		82-122	15		25
1,2,3,4,7,8,9-HpCDF	ND	68.1	68.8	101		57.6	86		78-138	18		25
OCDF	ND	136	128	94		108	81		63-170	17		25

Surrogate/Cleanup Standard	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
13C12-1,2,3,4,6,7,8-HpCDD	84		82		23-140
13C12-1,2,3,4,6,7,8-HpCDF	83		82		28-143
13C12-1,2,3,4,7,8,9-HpCDF	83		83		26-138



## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** BEACON ISLAND PROJECT

**Lab Number:** L1931057

**Project Number:** CD4644

**Report Date:** 07/29/19

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1264033-4 WG1264033-5 QC Sample: L1931057-01  
Client ID: B-2

<b>Surrogate/Cleanup Standard</b>	<b>MS</b>		<b>MSD</b>		<b>Acceptance Criteria</b>
	<b>% Recovery</b>	<b>Qualifier</b>	<b>% Recovery</b>	<b>Qualifier</b>	
13C12-1,2,3,4,7,8-HxCDD	78		79		32-141
13C12-1,2,3,4,7,8-HxCDF	77		78		26-152
13C12-1,2,3,6,7,8-HxCDD	82		81		28-130
13C12-1,2,3,6,7,8-HxCDF	81		82		26-123
13C12-1,2,3,7,8,9-HxCDF	78		80		29-147
13C12-1,2,3,7,8-PeCDD	92		96		25-181
13C12-1,2,3,7,8-PeCDF	82		85		24-185
13C12-2,3,4,6,7,8-HxCDF	67		74		28-136
13C12-2,3,4,7,8-PeCDF	77		81		21-178
13C12-2,3,7,8-TCDD	80		81		25-164
13C12-2,3,7,8-TCDF	67		75		24-169
13C12-OCDD	82		82		17-157
37CL4-2,3,7,8-TCDD	93		95		35-197

# **INORGANICS & MISCELLANEOUS**

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

**SAMPLE RESULTS**

**Lab ID:** L1931057-01  
**Client ID:** B-2  
**Sample Location:** PORT OF ALBANY

**Date Collected:** 06/13/19 15:40  
**Date Received:** 06/14/19  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Mansfield Lab</b>										
Solids, Total	73.4		%	0.100	0.100	1	-	06/19/19 00:41	121,2540G	CC



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: BEACON ISLAND PROJECT

Project Number: CD4644

Lab Number: L1931057

Report Date: 07/29/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1250161-1 QC Sample: L1925766-03 Client ID: DUP Sample						
Solids, Total	50.1	48.6	%	3		10



**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

Serial\_No:07291919:15  
**Lab Number:** L1931057  
**Report Date:** 07/29/19

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

**Cooler**                      **Custody Seal**  
A                                      Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L1931057-01A	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		A2-DIOXIN-1613(365)

**Project Name:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

## 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.
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. 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:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

- 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.

**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:** BEACON ISLAND PROJECT  
**Project Number:** CD4644

**Lab Number:** L1931057  
**Report Date:** 07/29/19

## REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 132 Method 1613 Revision B: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS. USEPA Office of Water, October 1994.

## 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.



## Certification Information

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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

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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**

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



# ATLANTIC TESTING LABORATORIES

## Environmental Chain-Of-Custody Record

L1931057  
 NO: 12602  
~~L1925812~~ KB 7/15/19

**Albany** 22 Corporate Drive Clifton Park, NY 12065 518/383-9144 (T) 518/383-9166 (F) [infoAT@atlantictesting.com](mailto:infoAT@atlantictesting.com)

**Binghamton** 126 Park Avenue Binghamton, NY 13903 607/773-1812 (T) 607/773-1835 (F) [infoBT@atlantictesting.com](mailto:infoBT@atlantictesting.com)

**Canton** 6431 U.S. Highway 11 Canton, NY 13617 315/366-4578 (T) 315/366-1012 (F) [infoCT@atlantictesting.com](mailto:infoCT@atlantictesting.com)

**Elmira** 2330 Route 352 Elmira, NY 14803 607/737-0700 (T) 607/737-0714 (F) [infoET@atlantictesting.com](mailto:infoET@atlantictesting.com)

**Plattsburgh** 130 Arizona Ave Plattsburgh, NY 12903 518/563-5878 (T) 518/562-1321 (F) [infoPL@atlantictesting.com](mailto:infoPL@atlantictesting.com)

**Poughkeepsie** 251 Upper North Road Highland, NY 12528 845/691-6098 (T) 845/691-6099 (F) [infoPT@atlantictesting.com](mailto:infoPT@atlantictesting.com)

**Rochester** 3495 Winton Place Rochester, NY 14623 585/427-9020 (T) 585/427-9021 (F) [infoRT@atlantictesting.com](mailto:infoRT@atlantictesting.com)

**Syracuse** 6085 Court Street Road Syracuse, NY 13208 315/699-5281 (T) 315/699-3374 (F) [infoST@atlantictesting.com](mailto:infoST@atlantictesting.com)

**Utica** 301 St. Anthony Street Utica, NY 13501 315/735-3309 (T) 315/735-0742 (F) [infoUT@atlantictesting.com](mailto:infoUT@atlantictesting.com)

**Watertown** 26581 NYS Route 283 Watertown, NY 13601 315/786-7887 (T) 315/786-2022 (F) [infoWT@atlantictesting.com](mailto:infoWT@atlantictesting.com)

Project No.		Client Name		QA/QC Code		Parameters								Report Distribution			
CD4644		McFarland Johnson		<input type="checkbox"/> NYSDEC	<input type="checkbox"/> SW-846	EPA 8082-PCB Dioxin EPA 8081 Pesticides Benzene PCBs EPA 8270 Total PAH Ar. Cd. Cu Pb, Hg Cyanide								Dates Required: 5-DAY VAT			
Page 6 of 6				<input type="checkbox"/> NYSDOH	<input type="checkbox"/> CLP									Send Report To: tparker@atlantictesting.com			
Project Contact: Timothy Parker		Project Name: Beacon Island Project		Project Location: Port of Albany		E-mail Results: @atlantictesting.com		Laboratory Sample ID No.		Notes: <del>Hold for Lab</del> H. Hicks							
Date	Time	Field Sample No.	Sample Location	Sample Type	No. of Containers												
6/13/19	15:10	---	B-1	C, Sol	6												
6/13/19	15:40	---	B-2	C, Sol	6												
6/13/19	16:15	---	B-3	C, Sol	6												
6/13/19	16:45	---	B-4	C, Sol	6												
6/13/19	17:10	---	B-5	C, Sol	6												

31057 .01

Samplers Name: Timothy Parker Date: 6/13/19 Received for Name: H. Hicks Date: 6/14  
 Samplers Signature: [Signature] Time: 19:00 Laboratory Signature: [Signature] Time: 19:30 Shipment Rec'd Intact?  YES  NO

Samples Relinquished By:				Samples Received By:				Sample Type Code Key:				Laboratory Remarks
Name: Timothy Parker	Date: 6/14/19	Signature: [Signature]	Time:	Name: [Signature]	Date: 6/14/19	Signature: [Signature]	Time:	Description		QA/QC		
								Matrix		Other		
Name: [Signature]	Date: 6/14/19	Signature: [Signature]	Time: 11:55	Name: H. Hicks	Date: 6/14	Signature: [Signature]	Time: 10:35	DW	Drinking Water	S	Soil	
								GW	Groundwater	SL	Sludge	
								WW	Wastewater	WS	Solid Waste	
								SM	Stormwater	B	Bulk	
								O	Oil	WP	Wipe	
								L	Liquid	A	Air	

H. Hicks 6-14-19 10:35

Think Quality

Distribution: White with Samples  
 Yellow to Laboratory  
 Pink to ATL Files



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

**Client:** McFarland Johnson

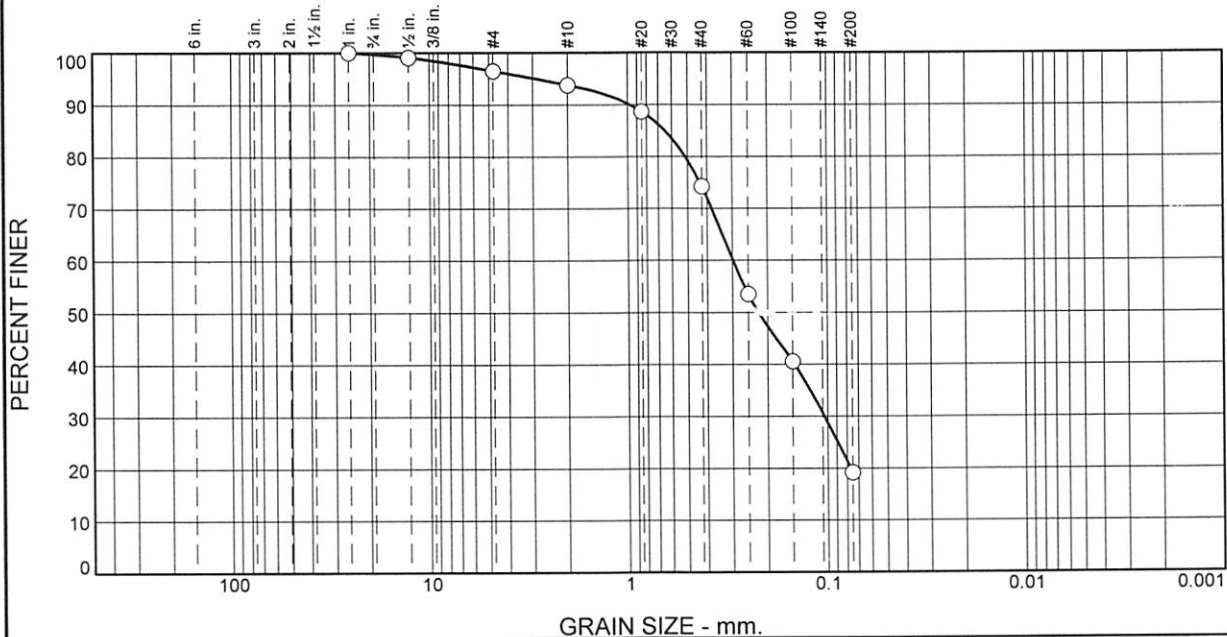
**Date:** 09/18/20

**Sample No:** S-6

**Source of Sample:** Sediment

**Location:** In-place

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	3	3	20	55	19	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
1"	100		
1/2"	99		
#4	97		
#10	94		
#20	89		
#40	74		
#60	54		
#100	41		
#200	19		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>= 0.6500      D<sub>60</sub>= 0.2975      D<sub>50</sub>= 0.2225  
D<sub>30</sub>= 0.1038      D<sub>15</sub>=              D<sub>10</sub>=  
C<sub>u</sub>=              C<sub>c</sub>=

**Classification**  
USCS= SM              AASHTO=

**Remarks**

\* (no specification provided)

Figure

ATLANTIC TESTING LABORATORIES, LIMITED

Reviewed by: Judith Ames

Date: 9/18/20



# ATLANTIC TESTING LABORATORIES

## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

**Client:** McFarland Johnson

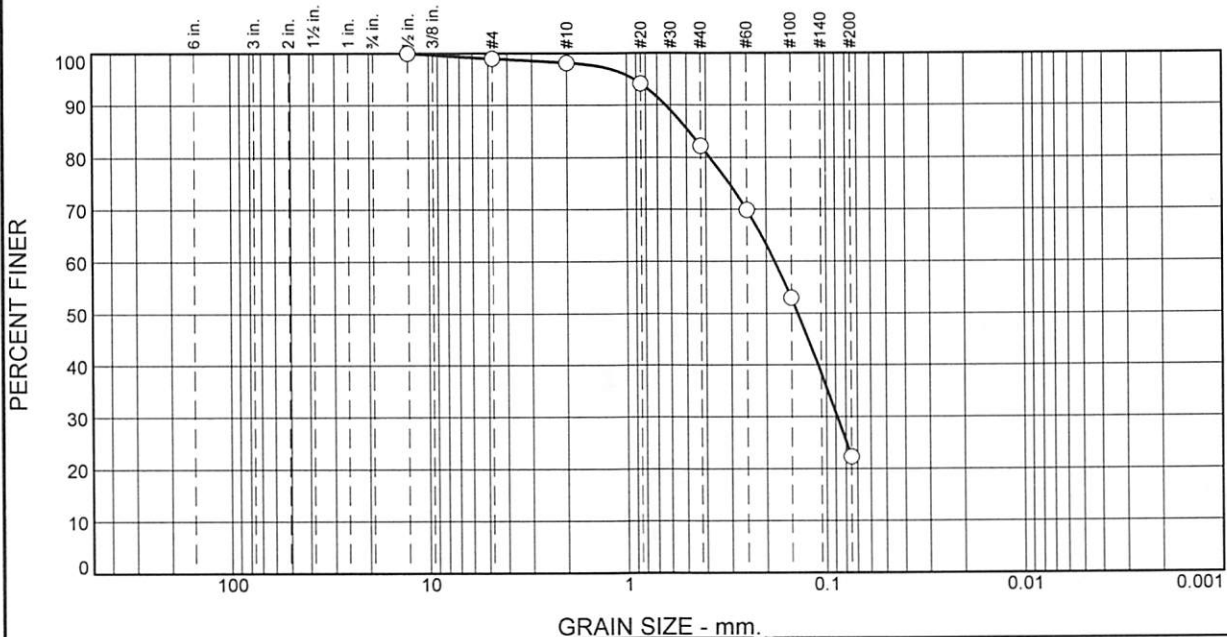
**Date:** 09/18/20

**Sample No:** S-7

**Source of Sample:** Sediment

**Location:** In-place

**Elev./Depth:**



GRAIN SIZE - mm.

% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	1	16	60	22	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
1/2"	100		
#4	99		
#10	98		
#20	94		
#40	82		
#60	70		
#100	53		
#200	22		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= -- LL= -- PI= --

**Coefficients**  
D<sub>85</sub>= 0.4875 D<sub>60</sub>= 0.1816 D<sub>50</sub>= 0.1391  
D<sub>30</sub>= 0.0883 D<sub>15</sub>= D<sub>10</sub>=  
C<sub>u</sub>= C<sub>c</sub>=

**Classification**  
USCS= SM AASHTO=

**Remarks**

\* (no specification provided)

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

Reviewed by: Judith Ames

Date: 9/18/20





## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

**Client:** McFarland Johnson

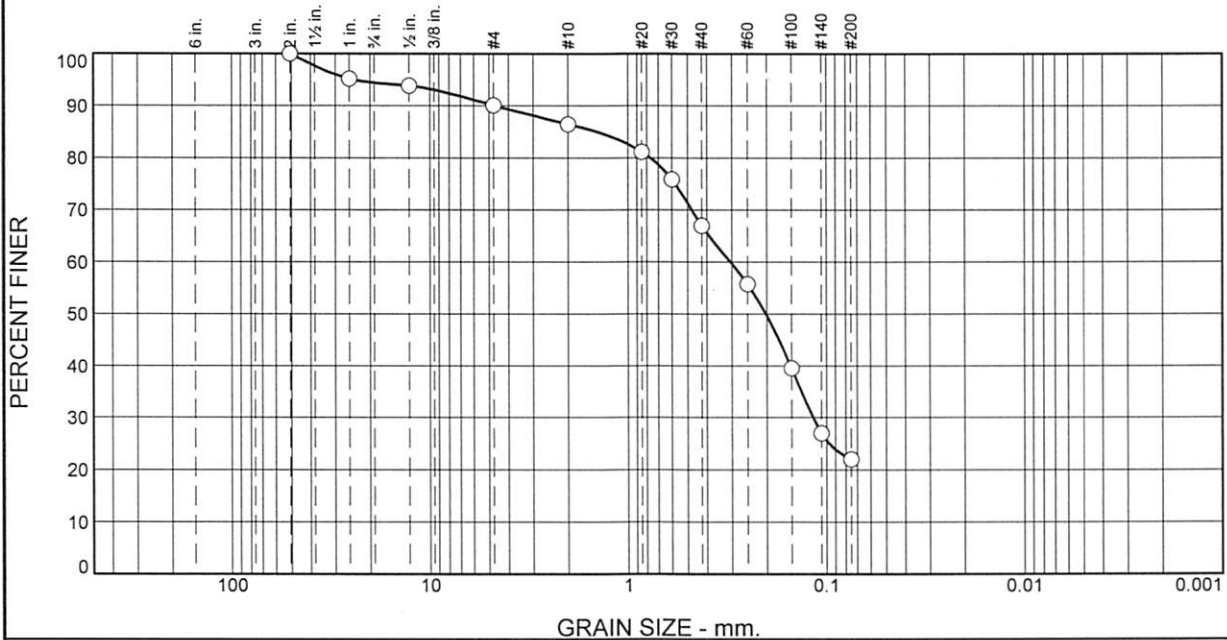
**Date:** 09/18/20

**Sample No:** S-8

**Source of Sample:** Sediment

**Location:** In-place

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	6	4	4	19	45	22	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2"	100		
1"	95		
1/2"	94		
#4	90		
#10	86		
#20	81		
#30	76		
#40	67		
#60	56		
#100	40		
#140	27		
#200	22		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= -- LL= -- PI= --

**Coefficients**  
D<sub>85</sub>= 1.4361 D<sub>60</sub>= 0.3049 D<sub>50</sub>= 0.2023  
D<sub>30</sub>= 0.1169 D<sub>15</sub>= D<sub>10</sub>=  
C<sub>u</sub>= C<sub>c</sub>=

**Classification**  
USCS= AASHTO=

**Remarks**

\* (no specification provided)

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

Reviewed by: Judith Comas

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

**Client:** McFarland Johnson

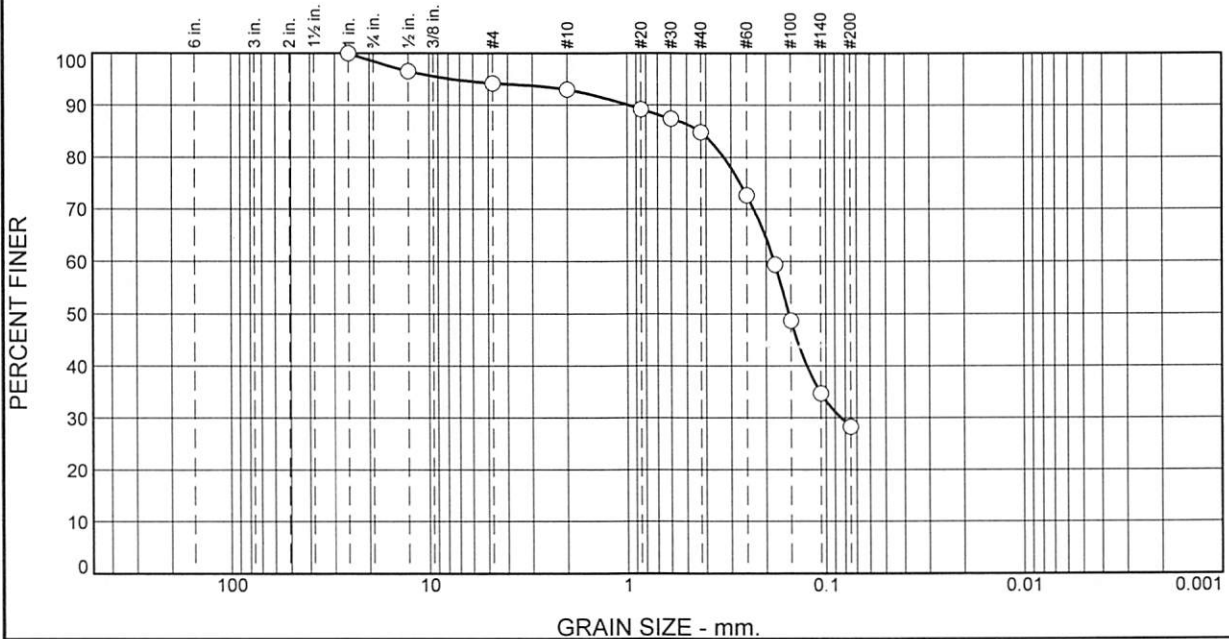
**Date:** 09/18/20

**Sample No:** S-9

**Source of Sample:** Sediment

**Location:** In-place

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	2	4	1	8	57	28	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
1"	100		
1/2"	97		
#4	94		
#10	93		
#20	89		
#30	87		
#40	85		
#60	73		
#80	59		
#100	49		
#140	35		
#200	28		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>= 0.4308      D<sub>60</sub>= 0.1820      D<sub>50</sub>= 0.1534  
D<sub>30</sub>= 0.0842      D<sub>15</sub>=              D<sub>10</sub>=  
C<sub>u</sub>=              C<sub>c</sub>=

**Classification**  
USCS=              AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Comas

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

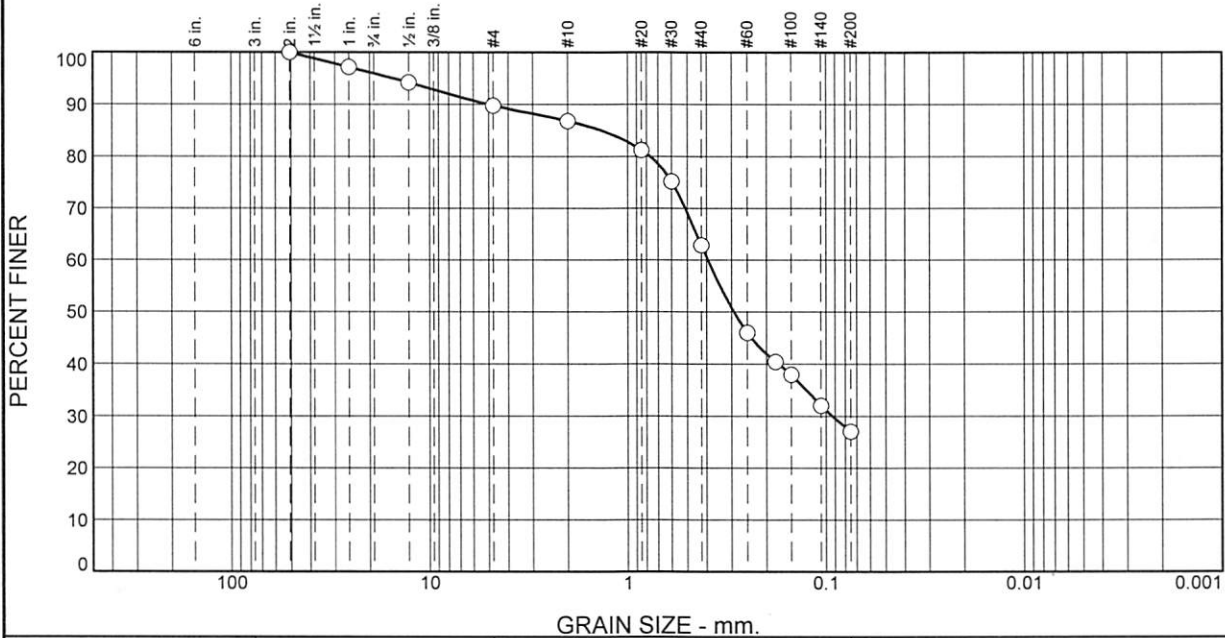
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-10  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	4	6	3	24	36	27	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2"	100		
1"	97		
1/2"	94		
#4	90		
#10	87		
#20	81		
#30	75		
#40	63		
#60	46		
#80	40		
#100	38		
#140	32		
#200	27		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>= 1.3561      D<sub>60</sub>= 0.3942      D<sub>50</sub>= 0.2921  
D<sub>30</sub>= 0.0927      D<sub>15</sub>=              D<sub>10</sub>=  
C<sub>u</sub>=              C<sub>c</sub>=

**Classification**  
USCS=              AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Comas

Date: 9/28/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

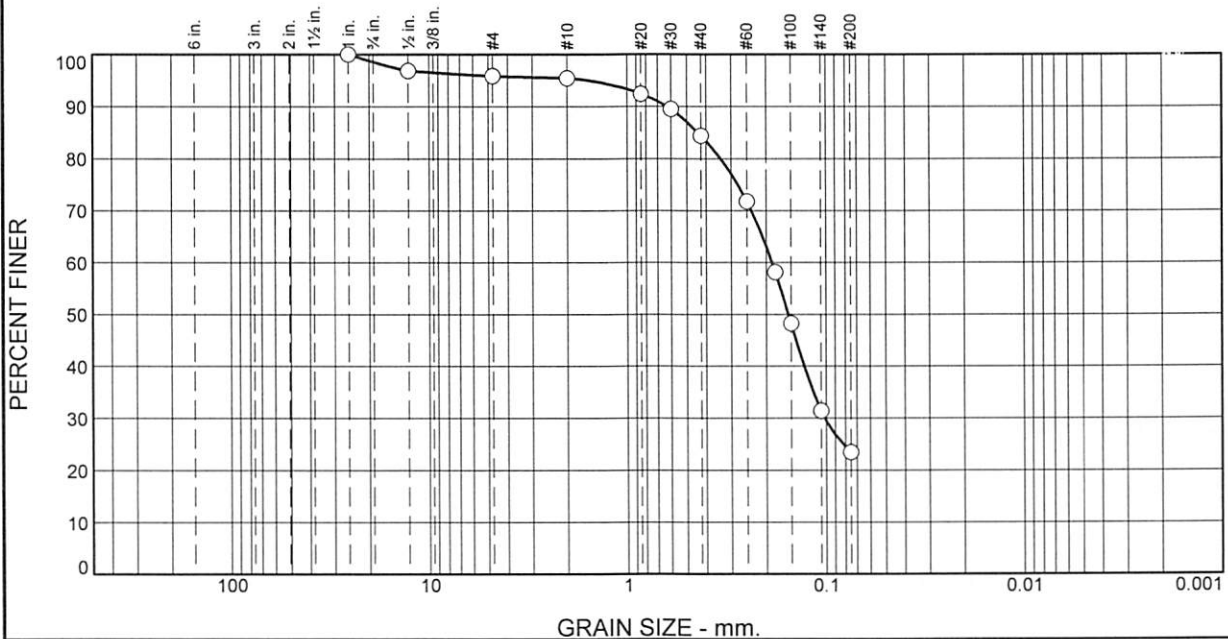
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-11  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	1	3	1	11	61	23	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
1"	100		
1/2"	97		
#4	96		
#10	95		
#20	92		
#30	90		
#40	84		
#60	72		
#80	58		
#100	48		
#140	31		
#200	23		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>= 0.4391      D<sub>60</sub>= 0.1868      D<sub>50</sub>= 0.1548  
D<sub>30</sub>= 0.1015      D<sub>15</sub>=              D<sub>10</sub>=  
C<sub>u</sub>=              C<sub>c</sub>=

**Classification**  
USCS=              AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Comas

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

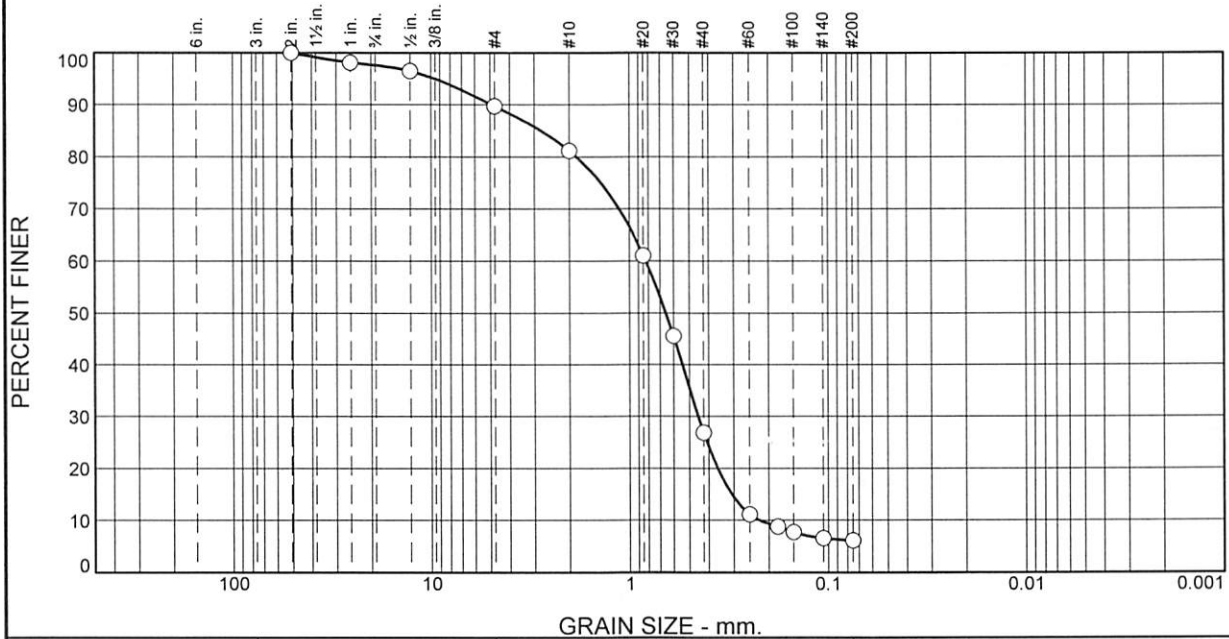
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-12  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	2	8	9	54	21	6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2"	100		
1"	98		
1/2"	96		
#4	90		
#10	81		
#20	61		
#30	46		
#40	27		
#60	11		
#80	9		
#100	8		
#140	7		
#200	6.1		

**Soil Description**

Sediment Sample

**Atterberg Limits**  
 PL= --      LL= --      PI= --

**Coefficients**  
 D<sub>85</sub>= 2.7783      D<sub>60</sub>= 0.8260      D<sub>50</sub>= 0.6556  
 D<sub>30</sub>= 0.4520      D<sub>15</sub>= 0.3071      D<sub>10</sub>= 0.2237  
 C<sub>u</sub>= 3.69      C<sub>c</sub>= 1.11

**Classification**  
 USCS=      AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Ames

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

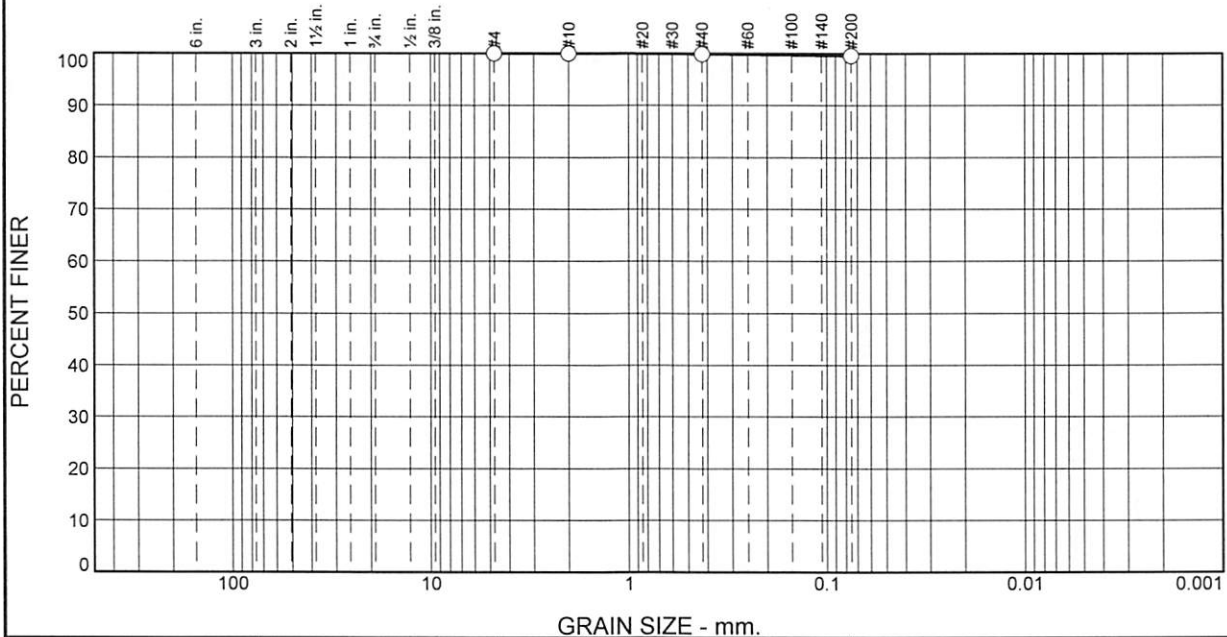
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-13  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



GRAIN SIZE - mm.

% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	0	0	0	0	100	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
#4	100		
#10	100		
#40	100		
#200	100		

\* (no specification provided)

**Soil Description**

Sediment Sample

**Atterberg Limits**  
 PL= --      LL= --      PI= --

**Coefficients**  
 D<sub>85</sub>=      D<sub>60</sub>=      D<sub>50</sub>=  
 D<sub>30</sub>=      D<sub>15</sub>=      D<sub>10</sub>=  
 C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
 USCS=      AASHTO=

**Remarks**

ATLANTIC TESTING LABORATORIES, LIMITED

Figure

Reviewed by: Judith Ames

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

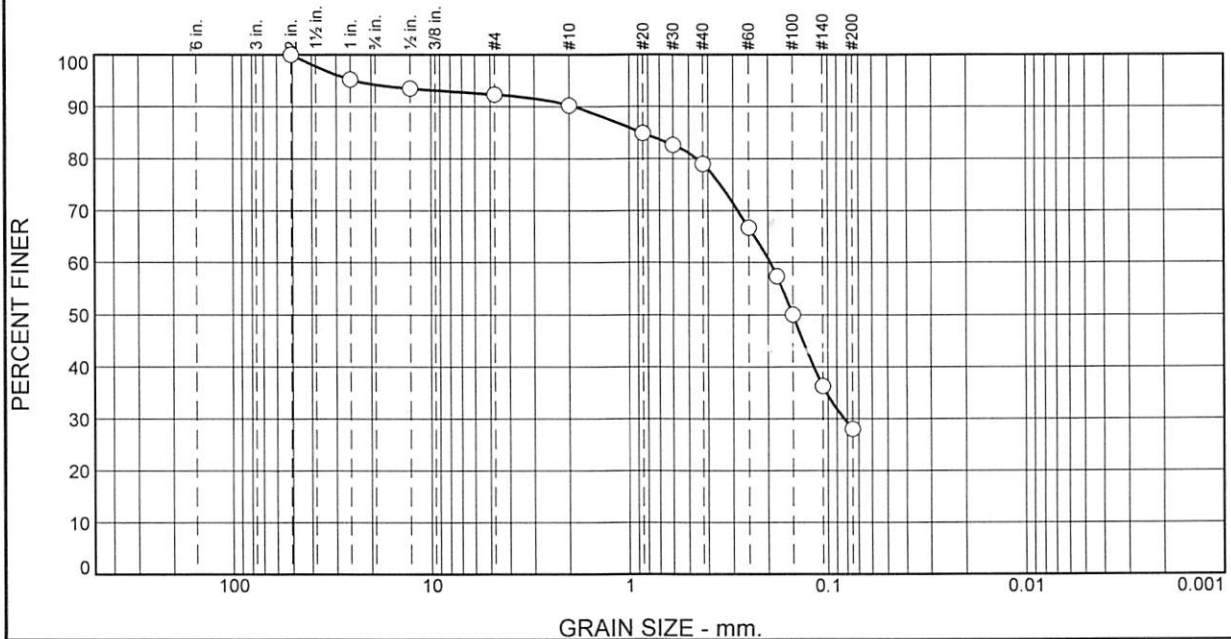
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-14  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	6	2	2	11	51	28	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2"	100		
1"	95		
1/2"	94		
#4	92		
#10	90		
#20	85		
#30	83		
#40	79		
#60	67		
#80	57		
#100	50		
#140	36		
#200	28		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>= 0.8635      D<sub>60</sub>= 0.1949      D<sub>50</sub>= 0.1499  
D<sub>30</sub>= 0.0825      D<sub>15</sub>=              D<sub>10</sub>=  
C<sub>u</sub>=              C<sub>c</sub>=

**Classification**  
USCS=              AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Ames

Date: 9/18/20



## Particle Size Distribution Report

**Project:** Port of Albany - Beacon Island, Bethlehem, NY

**Report No.:** AT5596SL-01-09-20

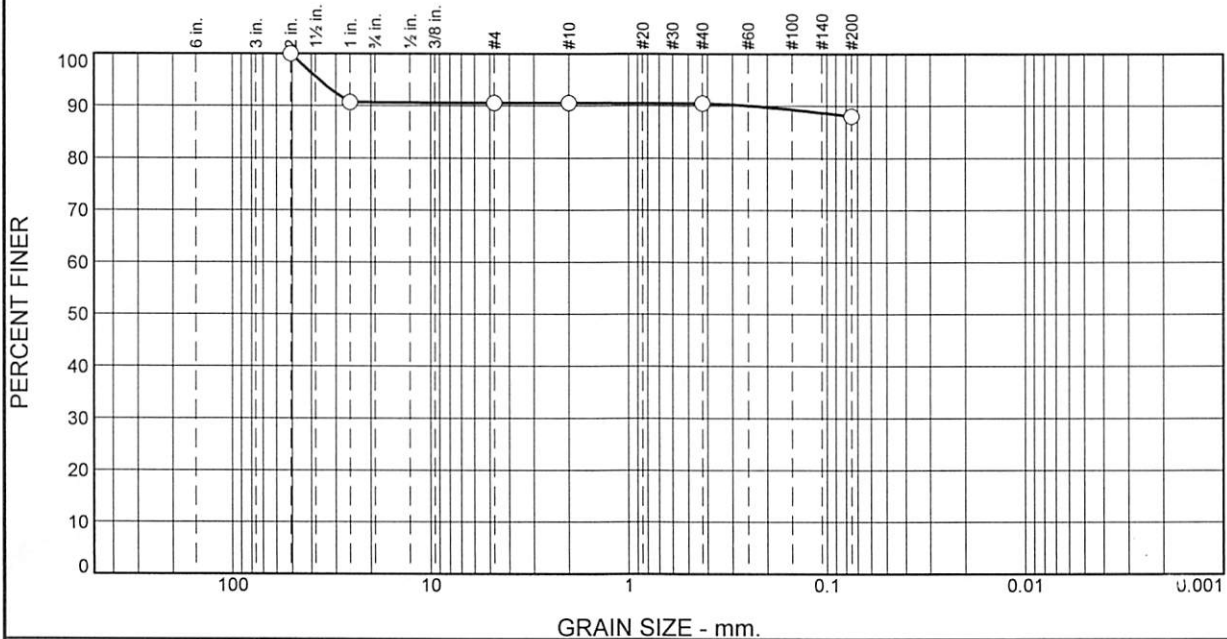
**Client:** McFarland Johnson

**Date:** 09/18/20

**Sample No:** S-15  
**Location:** In-place

**Source of Sample:** Sediment

**Elev./Depth:**



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	9	0	0	0	3	88	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	OUT OF SPEC. (X)
2"	100		
1"	91		
#4	91		
#10	91		
#40	91		
#200	88		

**Soil Description**  
Sediment Sample

**Atterberg Limits**  
PL= --      LL= --      PI= --

**Coefficients**  
D<sub>85</sub>=      D<sub>60</sub>=      D<sub>50</sub>=  
D<sub>30</sub>=      D<sub>15</sub>=      D<sub>10</sub>=  
C<sub>u</sub>=      C<sub>c</sub>=

**Classification**  
USCS=      AASHTO=

**Remarks**

\* (no specification provided)

Reviewed by: Judith Comas

Date: 9/18/20



**APPENDIX E**  
**SUMMARY OF LABORATORY ANALYSIS RESULTS**

**Table E-1  
Summary of Laboratory Analysis Results – Beacon Island  
Sediment Samples Collected September 2, 2020**

Sample Identification	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	NYSDEC Sediment Quality Threshold Values			6 NYCRR Part 360 Fill Material Pre-Determined Beneficial Use Criteria		
	Sample Depth*	0' – 15'	0' – 15'	0' – 10'	0' – 10'	0' – 10'	0' – 15'	0' – 10'	0' – 15'	0' – 15'	0' – 15'	Class A	Class B	Class C	General Fill	Restricted-Use Fill
<b>VOC (mg/kg)</b>																
Acetone	0.044	<b>0.089</b>	0.035	0.046	<b>0.061</b>	<b>0.068</b>	0.03	ND	<b>0.052</b>	0.0091	---	---	---	0.05	0.05	0.05
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.59	0.59 – 2.16	>2.16	0.06	0.06	0.06
2-Butanone (MEK)	0.0057	0.016	0.0049	0.0072	0.012	0.012	0.0038	ND	0.01	ND	---	---	---	0.12	0.12	0.12
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.00033	ND	---	---	---	1.1	1.1	1.1
Total Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	0.0046	ND	0.0015	---	---	---	---	---	---
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	0.7	0.7	0.7
p-isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	0.00042	ND	---	---	---	10	10	10
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.00083	ND	---	---	---	12	12	12
1,2,4-trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.00097	ND	---	---	---	3.4	3.4	3.4
Ethylbenzene	0.00018	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	1	1	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	1.6	1.6	1.6
Total BTEX	0.00018	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.96	0.96 – 5.9	>5.9	---	---	---
<b>Semi-VOC (mg/kg)</b>																
Benzo(a)anthracene	0.049	ND	ND	ND	ND	0.056	ND	ND	0.058	ND	---	---	---	1	See BAPE	See BAPE
Benzo(b)fluoranthene	0.045	ND	ND	ND	ND	0.063	ND	ND	0.051	ND	---	---	---	1	See BAPE	See BAPE
Fluoranthene	0.054	ND	ND	ND	0.027	0.074	ND	ND	0.072	ND	---	---	---	100	100	100
Pyrene	0.051	ND	ND	ND	0.027	0.074	ND	ND	0.066	ND	---	---	---	100	100	100
Chrysene	0.039	ND	ND	ND	ND	0.045	ND	ND	0.043	ND	---	---	---	1	See BAPE	See BAPE
Phenanthrene	ND	ND	ND	ND	ND	0.045	ND	ND	ND	ND	---	---	---	100	100	100
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	---	---	---	100	100	100
Total PAH	0.238	ND	ND	ND	0.056	0.385	ND	ND	0.290	ND	<4	4 – 35	>35	---	---	---
All Other Target Compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---
BAPE**	0.0098	ND	ND	ND	ND	0.0124	ND	ND	0.0113	ND	---	---	---	---	3	3
<b>Total PCB (mg/kg)</b>																
Total PCB	0.11	0.0175	ND	ND	0.455	<b>1.48</b>	0.00999	ND	<b>8.36</b>	ND	<0.1	0.1 – 1	>1	1	1	1
<b>NOTES:</b>																
Samples collected by representatives of Atlantic Testing Laboratories, Limited, and analyzed by Alpha Analytical (NYSDOH ELAP No. 11148).																
All laboratory results are given in units stated.																
*Depth in feet below top of sediment																
ND = Not detected above respective laboratory method detection limit																
Bold values exceed all the 6 NYCRR Part 360 Fill Material Pre-Determined Beneficial Use Criteria																
Italicized values were determined to be in the Class B category according to NYSDEC TOGS 5.1.9 Sediment Quality Threshold Values.																
Italicized and Underlined values were determined to be in the Class C category according to NYSDEC TOGS 5.1.9 Sediment Quality Threshold Values.																
**Benzo(a)pyrene equivalent (BAPE) is calculated using the following formula (all compounds listed representative of concentrations in mg/kg or ppm, dry weight):																
BAPE = [1 x Benzo(a)pyrene] + [0.1 x (Benzo(a)anthracene+Benzo(b)fluoranthene+benzo(k)fluoranthene+dibenzo(a,h)anthracene+Indeno(1,2,3-cd)pyrene)] + [0.01 x Chrysene]																

Table E-1 (Continued)

Sample Identification	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	S-15	NYSDEC Sediment Quality Threshold Values			6 NYCRR Part 360 Fill Material Pre-Determined Beneficial Use Criteria		
	Sample Depth*	0' - 15'	0' - 15'	0' - 10'	0' - 10'	0' - 10'	0' - 15'	0' - 10'	0' - 15'	0' - 15'	0' - 15'	Class A	Class B	Class C	General Fill	Restricted-Use Fill
<b>TAL Metals (mg/kg)</b>																
Aluminum	4,200	6,050	6,460	5,490	6,060	4,840	5,060	11,400	6,240	11,100	---	---	---	NA	NA	NA
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	NA	NA	NA
Arsenic	3.26	2.13	3.2	3.1	2.89	3.27	4.05	7.58	4.26	<b>20</b>	<14	14 - 53	>53	16	16	16
Barium	26.8	25.6	41.5	29.7	48.1	33.8	18.3	70.7	81.4	73.9	---	---	---	350	350	400
Beryllium	0.258	0.258	0.322	0.23	0.294	0.258	0.244	0.538	0.31	0.465	---	---	---	14	14	590
Cadmium	0.155	0.2	0.252	0.199	0.83	1.10	0.138	0.381	<b>3.01</b>	0.356	<1.2	1.2 - 9.5	>9.5	2.5	2.5	9.3
Calcium	3,240	3,480	12,700	7,930	5,070	3,800	1,450	26,200	5,270	21,300	---	---	---	NA	NA	NA
Chromium	9.19	10.7	10.1	8.67	31.5	31.4	7.42	18	86	17.2	---	---	---	36-Cr(III) 19-Cr(VI)	36-Cr(III) 19-Cr(VI)	1,500-Cr(III) 400-Cr(VI)
Cobalt	5.37	6.32	7.28	6.69	6.35	5.84	5.62	13.5	6.3	12.9	---	---	---	30	30	NA
Copper	6.62	6.14	10.4	7.58	22.5	17.8	4.35	29.2	55	25	<33	33 - 207	>207	270	270	270
Iron	<b>10,800</b>	<b>15,300</b>	<b>18,300</b>	<b>14,600</b>	<b>15,300</b>	<b>16,100</b>	<b>13,600</b>	<b>27,800</b>	<b>15,300</b>	<b>29,000</b>	--	--	--	2,000	2,000	NA
Lead	6.85	8.19	6.99	5.58	<b>38.8</b>	<b>33.1</b>	4.7	15.9	<b>117</b>	12.3	<33	33 - 166	>166	400	400	1,000
Magnesium	2,540	3,450	4,480	4,670	3,520	3,160	3,370	9,780	3,660	9,220	---	---	---	NA	NA	NA
Manganese	160	200	386	206	290	177	159	581	212	696	---	---	---	2,000	2,000	10,000
Mercury	ND	ND	ND	ND	0.167	0.14	ND	ND	<b>0.776</b>	ND	<0.17	0.17 - 1.6	>1.6	0.73	0.73	2.8
Nickel	10.6	13.7	15.2	12.8	13.4	13.7	11.3	29.5	15.5	26.6	---	---	---	130	130	310
Potassium	324	476	510	533	408	391	380	1,140	466	1,180	---	---	---	NA	NA	NA
Selenium	ND	ND	0.352	0.576	ND	ND	0.392	0.342	ND	0.722	---	---	---	4	4	1,500
Silver	ND	ND	ND	ND	ND	ND	ND	ND	1.12	ND	---	---	---	8.3	8.3	1,500
Sodium	39.0	43.2	54.4	48.4	49	84.2	67.1	156	107	167	---	---	---	NA	NA	NA
Thallium	ND	ND	ND	ND	ND	ND	ND	0.665	ND	0.802	---	---	---	NA	NA	NA
Vanadium	9.68	10.4	15.1	13.2	14.5	11	10.7	21.3	14.6	21.7	---	---	---	100	100	NA
Zinc	34.2	47.1	41.5	37.3	80.1	83.7	32.6	67.1	218	63.2	---	---	---	2,200	2,200	10,000
<b>Pesticides (mg/kg)</b>																
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.11	0.11 - 0.48	>0.48	---	---	---
4,4'-DDD	ND	0.000928	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	2.6	2.6	2.6
Sum of 4,4'-DDE+4,4'-DDD+4,4'-DDT	ND	0.000928	ND	ND	ND	ND	ND	ND	ND	ND	<0.003	0.003 - 0.03	>0.03	---	---	---
Mirex	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.0014	0.0014 - 0.014	>0.014	---	---	---
Chlordane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.003	0.003 - 0.036	>0.036	---	---	---
<b>Total Organic Carbon (TOC) (%)</b>																
TOC	0.78	0.894	0.68	0.972	0.928	0.64	0.156	1.04	1.98	0.43	---	---	---	---	---	---
<b>NOTES:</b>																
Samples collected by representatives of Atlantic Testing Laboratories, Limited, and analyzed by Alpha Analytical (NYSDOH ELAP No. 11148).																
All laboratory results are given in units stated.																
*Depth in feet below top of sediment																
ND = Not detected above respective method detection limit																
Bold values exceed all the 6 NYCRR Part 360 Fill Material Pre-Determined Beneficial Use Criteria																
Italicized values were determined to be in the Class B category according to NYSDEC TOGS 5.1.9 Sediment Quality Threshold Values.																
Italicized and Underlined values were determined to be in the Class C category according to NYSDEC TOGS 5.1.9 Sediment Quality Threshold Values.																

**Table E-2**  
**Summary of Laboratory Analysis Results – Beacon Island**  
**Sediment Samples Collected September 2, 2020**

<b>Sample Identification</b>	<b>DUP01</b>	<b>MS/MSD</b>
<b>Sample Type</b>	<b>Field Duplicate of S-8</b>	<b>Matrix Spike of S-9</b>
<b>VOC (mg/kg)</b>		
Acetone	0.048	*
2-Butanone (MEK)	0.0072	*
Benzene	ND	*
Toluene	ND	*
Ethylbenzene	ND	*
Total Xylenes	ND	*
Total BTEX	ND	*
<b>Semi-VOC (mg/kg)</b>		
All Target Compounds	ND	*
<b>TAL Metals (mg/kg)</b>		
Aluminum	4,330	*
Antimony	ND	*
Arsenic	1.68	*
Barium	21.7	*
Beryllium	0.208	*
Cadmium	0.161	*
Calcium	9,290	*
Chromium	6.77	*
Cobalt	5.33	*
Copper	5.98	*
Iron	11,600	*
Lead	4.78	*
Magnesium	4,690	*
Manganese	164	*
Mercury	ND	*
Nickel	10.9	*
Potassium	335	*
Selenium	ND	*
Silver	ND	*
Sodium	57.2	*
Thallium	ND	*
Vanadium	9.97	*
Zinc	32.5	*
<b>Total PCB (mg/kg)</b>		
Total PCB	ND	*
<b>Pesticides (mg/kg)</b>		
All Target Compounds	ND	*
<p><i>NOTES:</i>  Samples collected by representatives of Atlantic Testing Laboratories, Limited, and analyzed by Pace Analytical, or Greenburg, Pennsylvania (NYSDOH ELAP No. 10888).  All laboratory results are given in units stated.  ND = Not detected above respective method detection limit  NA = Sample not analyzed for parameter  * See Laboratory Analysis Report for results of Matrix Spike and Matrix Spike Duplicate</p>		

**Table E-3**  
**Summary of Data from Sediment Sampling on June 13, 2019**

Sample Number	B-1	B-2	B-3	B-4	B-5	NYSDEC TOGS 5.1.9 Sediment Quality Threshold Values		
Core Number	C-1	C-2	C-3	C-4	C-5			
Depth of Sample	0-10'	0-10'	0-10'	0-10'	0-10'			
Date Collected	06/13/19	06/13/19	06/13/19	06/13/19	06/13/19	Class A	Class B	Class C
<b>Metals (mg/kg)</b>								
Arsenic	2.19	3.96	4.47	4.13	4.75	<14	14 - 53	>53
Cadmium	0.042	0.306	0.045	0.047	0.091	<1.2	1.2 - 9.5	>9.5
Copper	3.70	17.6	4.03	5.00	6.52	<33	33 - 207	>207
Lead	4.08	18.9	3.48	5.29	5.56	<33	33 - 166	>166
Mercury	0.004	0.041	0.007	0.011	0.008	<0.17	0.17 - 1.6	>1.6
<b>PAH and Petroleum-Related Compounds (mg/kg)</b>								
Benzene	<0.00024	<0.00017	<0.00018	<0.00020	<0.00022	<0.59	0.59 - 2.16	>2.16
Total BTX	ND	ND	ND	ND	ND	<0.96	0.96 - 5.9	>5.9
Total PAH	0.0287	1.024	0.0497	0.0641	0.469	<4	4 - 35	>35
<b>Pesticides (mg/kg)</b>								
Sum of DDT+DDE+DDD	<0.000042	0.00363	0.000167	0.000277	0.000875	<0.003	0.003 - 0.03	>0.03
Dieldrin	<0.000042	<0.000045	<0.000041	<0.000039	<0.000054	<0.11	0.11 - 0.48	>0.48
Mirex	<0.000042	<0.000045	<0.000041	<0.000039	<0.000054	<0.0014	0.0014 - 0.014	>0.014
Chlordane	<0.00214	<0.00226	<0.00206	<0.00199	<0.00272	<0.003	0.003 - 0.036	>0.036
Sum of Chlordane Isomers	ND	0.00533	0.000182	ND	ND			
<b>PCB (mg/kg)</b>								
PCB (sum of aroclors)	<0.00104	0.178	0.00454	0.028	0.0103	<0.1	0.1 - 1	>1
<b>Cyanide (mg/kg)</b>								
Cyanide	<0.00026	<0.00027	<0.00026	<0.00024	<0.00034	--	--	--
<b>Dioxins/Furans (pg/g)</b>								
TEQ	NA	0.049	NA	NA	NA	<4.5	4.5 - 50	>50
<p><i>Notes:</i> Samples collected by representatives of ATL and analyzed by Alpha Analytical (NYSDOH No. 11148). Laboratory reports and sample custody documentation are contained in Appendix C.  All laboratory results are expressed in units indicated.  ND = Not detected above the laboratory method detection limit  NA = Not Analyzed  NYSDEC = New York State Department of Environmental Conservation  TOGS 5.1.9 = Technical and Operation Guidance Series 5.1.9, "In-Water and Riparian Management of Sediment and Dredged Material"</p>								

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