APPENDIX I Hazardous Lead Delineation Sampling and Laboratory Analysis Documentation

Table 1 Hazardous Lead Confirmation Endpoint Sample Results for SB-114

802-825 Atlantic Avenue Brooklyn, New York NYSDEC BCP Site No.: C224228 Langan Project No.: 170384501

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Restricted Use Restricted- Residential SCOs	RCRA Characteristics for Hazardous Waste	SB-114_FLOOR SB-114_FLOOR_8 L1960511-05 12/17/2019 8-8	SB-114_SWE SB-114_SWE_6-7 L1960511-02 12/17/2019 6-7	SB-114_SWN SB-114_SWN_6-7 L1960511-01 12/17/2019 6-7	SB-114_SWN DUP01_121719 L1960511-10 12/17/2019 6-7	SB-114_SWS SB-114_SWS_6-7 L1960511-03 12/17/2019 6-7	SB-114_SWW SB-114_SWW_6-7 L1960511-04 12/17/2019 6-7
Inorganics (mg/kg)	Inorganics (mg/kg)							
Lead	400	~	98.6	110	806	309	21.3	137
TCLP - Inorganics (mg/L)								
Lead	~	5	0.096 J	0.227 J	0.686	0.679	0.105 J	0.087 J

Notes:

1. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO) and to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

- 2. Only detected analytes are shown in the table.
- 3. Detected analytical results above Restricted Use Restricted-Residential SCOs are bolded.
- 4. Detected analytical results above RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic are shaded.
- 5. Analytical results with reporting limits (RL) above the lowest applicable criteria are italicized.
- 6. Sample DUP01_121719 is a duplicate sample of SB-114_SWN_6-7.
- 7. ~ = Regulatory limit for this analyte does not exist
- 8. bgs = below grade
- 9. mg/kg = milligrams per kilogram
- 10. ma/L = milligrams per liter
- 11. TCLP = Toxicity Characteristic Leaching Procedure

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.

Table 1 Hazardous Lead Delineation Analytical Results Summary

805-825 Atlantic Avenue Brooklyn New York Regulatory Site No.: C224228 Langan Project No.: 170384501

Sample ID Laboratory ID	Residential SCΩs	RCRA Characteristics for	SB-107_EA SB-107_EA_1-2 L2007070-07 2/17/2020 1-2	SB-107_EA SB-107_EA_8-9 L2007070-08 2/17/2020 8-9	SB-107_EB SB-107_EB_1-2 L2007070-09 2/17/2020 1-2	SB-107_EB SB-107_EB_3-4 L2007070-10 2/17/2020 3-4	SB-107_FLOOR SB-107_FLOOR_12 L2007070-11 2/17/2020 12-12	SB-107_WA SB-107_WA_1-2 L2007070-01 2/17/2020 1-2	SB-107_WA SB-107_WA_8-9 L2007070-02 2/17/2020 8-9	SB-107_WB SB-107_WB_1-2 L2007070-03 2/17/2020 1-2	SB-107_WB SB-107_WB_8-9 L2007070-04 2/17/2020 8-9	SB-107_WC SB-107_WC_1-2 L2007070-05 2/17/2020 1-2
Lead	400	~	9.26	15.1	21.6	4.86	7.66	42.5	206	159	926	110
TCLP - Inorganics (mg/L))											
Lead	~	5	0.5 U	0.034 J	0.066 J	0.5 U	0.5 U	0.078 J	0.272 J	0.115 J	0.378 J	0.157 J

Table 1 Hazardous Lead Delineation Analytical Results Summary

805-825 Atlantic Avenue Brooklyn New York Regulatory Site No.: C224228 Langan Project No.: 170384501

Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	Residential SCΩs	RCRA Characteristics for	SB-107_WC SB-107_WC_8-9 L2007070-06 2/17/2020 8-9	WP-SB-01_C2 WP-SB-01_C2_10 L2007070-19 2/17/2020 10-10	WP-SB-01_D2 WP-SB-01_D2_10 L2007070-12 2/17/2020 10-10	WP-SB-01_E1 WP-SB-01_E1_1-2 L2007070-13 2/17/2020 1-2	WP-SB-01_E1 DUP01_021720 L2007070-21 2/17/2020 1-2	WP-SB-01_E1 WP-SB-01_E1_3-4 L2007070-14 2/17/2020 3-4	WP-SB-01_F1 WP-SB-01_F1_1-2 L2007070-15 2/17/2020 1-2	WP-SB-01_FLOOR WP-SB-01_FLOOR_10 L2007070-18 2/17/2020 10-10	WP-SB-01_SWN WP-SB-01_SWN_1-2 L2007070-16 2/17/2020 1-2	WP-SB-01_SWN WP-SB-01_SWN_10 L2007070-17 2/17/2020 10-10
Inorganics (mg/kg)	_	_										
Lead	400	~	124	71	3.7	98.7	79.1	4.45	379	15.2	470	6.6
TCLP - Inorganics (mg/L))											
Lead	~	5	0.118 J	0.5 U	0.5 U	0.345 J	0.206 J	0.5 U	0.337 J	0.5 U	0.895	0.5 U

Table 1 Hazardous Lead Delineation Analytical Results Summary

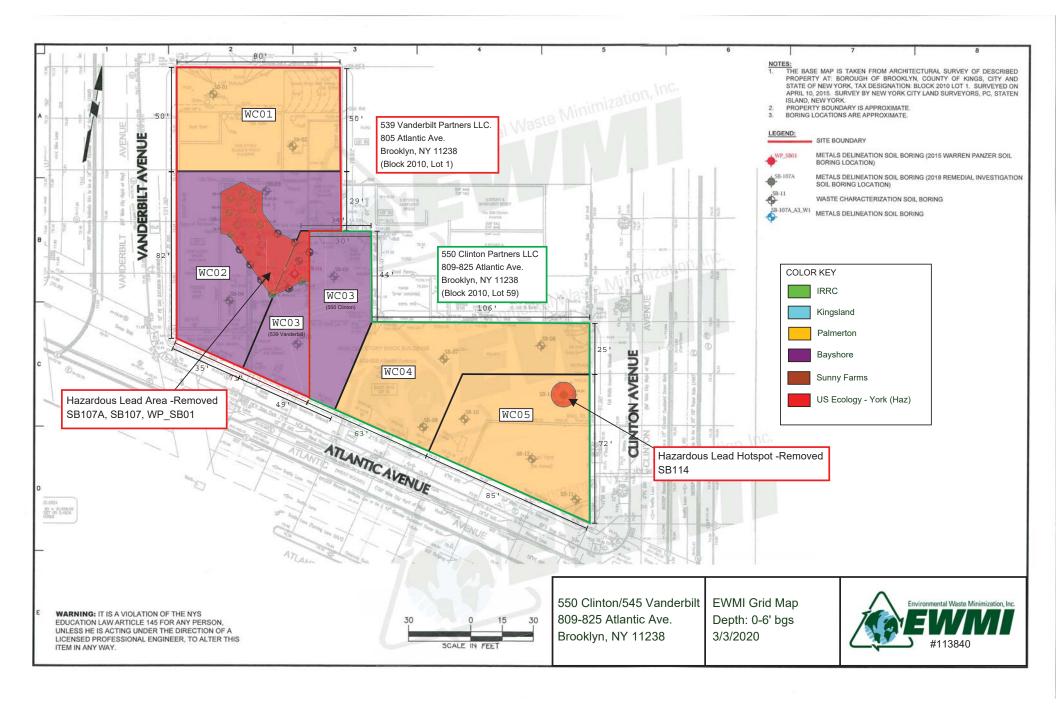
805-825 Atlantic Avenue Brooklyn New York Regulatory Site No.: C224228 Langan Project No.: 170384501

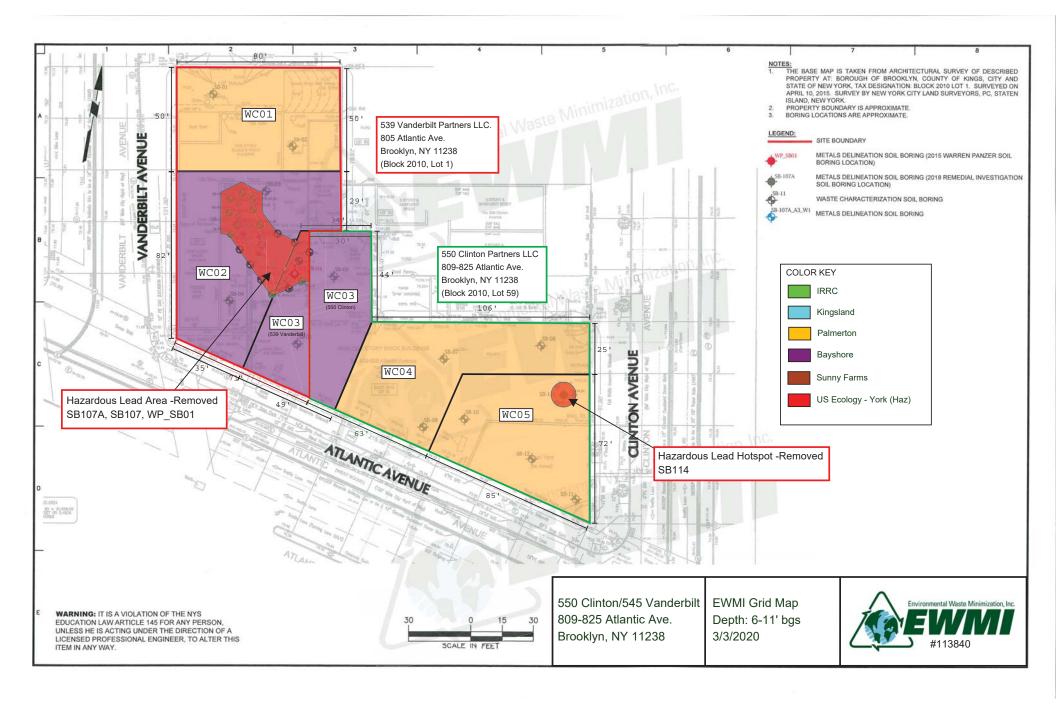
Notes:

- 1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Residential Soil Cleanup Objectives (SCO) and 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.
- 2. Detected analytical results above the NYSDEC Part 375 Restricted Use Residential SCOs are bolded.
- 3. Detected analytical results above the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic are shaded.
- 4. Analytical results with reporting limits (RL) above the regulatory comparison criteria are italicized.
- 5. Sample DUP01_021720 is a duplicate sample of WP-SB-01_E1_1-2.
- 6. ~ = Criterion does not exist
- 7. mg/kg = milligrams per kilogram
- 8. mg/L = milligrams per liter
- 9. NA = Not analyzed
- 10. bgs = below grade surface
- 11. TCLP = Toxicity Characteristic Leaching Procedure

Qualifiers:

- J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
- U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.







ANALYTICAL REPORT

Lab Number: L1946730

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

Kimberly Del Col

ATTN: Phone: (212) 479-5486

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 10/10/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1946730 **Report Date:** 10/10/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1946730-01	SB-114_0-4	SOIL	BROOKLYN, NY	10/07/19 07:07	10/07/19
L1946730-02	SB-114_4-8	SOIL	BROOKLYN, NY	10/07/19 07:09	10/07/19
L1946730-03	SB-114_8	SOIL	BROOKLYN, NY	10/07/19 07:10	10/07/19
L1946730-04	SB-114_9	SOIL	BROOKLYN, NY	10/07/19 07:05	10/07/19
L1946730-05	SB-114_10	SOIL	BROOKLYN, NY	10/07/19 07:06	10/07/19
L1946730-06	SB-114_A3_0-4	SOIL	BROOKLYN, NY	10/07/19 10:00	10/07/19
L1946730-07	SB-114_A3_4-8	SOIL	BROOKLYN, NY	10/07/19 10:10	10/07/19
L1946730-08	SB-114_A38	SOIL	BROOKLYN, NY	10/07/19 10:06	10/07/19
L1946730-09	SB-114_A3_9	SOIL	BROOKLYN, NY	10/07/19 10:07	10/07/19
L1946730-10	SB-114_A3_10	SOIL	BROOKLYN, NY	10/07/19 10:08	10/07/19
L1946730-11	SB-114_A1_0-4	SOIL	BROOKLYN, NY	10/07/19 07:02	10/07/19
L1946730-12	SB-114_A1_4-8	SOIL	BROOKLYN, NY	10/07/19 07:01	10/07/19
L1946730-13	SB-114_A1_8	SOIL	BROOKLYN, NY	10/07/19 07:03	10/07/19
L1946730-14	SB-114_A1_9	SOIL	BROOKLYN, NY	10/07/19 07:04	10/07/19
L1946730-15	SB-114_A1_10	SOIL	BROOKLYN, NY	10/07/19 07:00	10/07/19
L1946730-16	SB-114_A2_0-4	SOIL	BROOKLYN, NY	10/07/19 09:00	10/07/19
L1946730-17	SB-114_A2_4-8	SOIL	BROOKLYN, NY	10/07/19 09:01	10/07/19
L1946730-18	SB-114_A2_8	SOIL	BROOKLYN, NY	10/07/19 09:02	10/07/19
L1946730-19	SB-114_A2_9	SOIL	BROOKLYN, NY	10/07/19 09:03	10/07/19
L1946730-20	SB-114_A2_10	SOIL	BROOKLYN, NY	10/07/19 09:05	10/07/19
L1946730-21	SB-114_B1_0-4	SOIL	BROOKLYN, NY	10/07/19 07:08	10/07/19
L1946730-22	SB-114_B1_4-8	SOIL	BROOKLYN, NY	10/07/19 08:10	10/07/19
L1946730-23	SB-114_B1_8	SOIL	BROOKLYN, NY	10/07/19 08:11	10/07/19
299 46796824	SB-114_B1_9	SOIL	BROOKLYN, NY	10/07/19 08:12	10/07/19



Alpha			Sample	Serial_No	o:10101916:02
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date
L1946730-25	SB-114_B1_10	SOIL	BROOKLYN, NY	10/07/19 08:13	10/07/19
L1946730-26	SB-114_B2_0-4	SOIL	BROOKLYN, NY	10/07/19 08:00	10/07/19
L1946730-27	SB-114_B2_4-8	SOIL	BROOKLYN, NY	10/07/19 08:01	10/07/19
L1946730-28	SB-114_B2_8	SOIL	BROOKLYN, NY	10/07/19 08:02	10/07/19
L1946730-29	SB-114_B2_9	SOIL	BROOKLYN, NY	10/07/19 08:03	10/07/19
L1946730-30	SB-114_B2_10	SOIL	BROOKLYN, NY	10/07/19 08:04	10/07/19
L1946730-31	SB-114_C1_0-4	SOIL	BROOKLYN, NY	10/07/19 10:11	10/07/19
L1946730-32	SB-114_C1_4-8	SOIL	BROOKLYN, NY	10/07/19 10:13	10/07/19
L1946730-33	SB-114_C1_8	SOIL	BROOKLYN, NY	10/07/19 10:16	10/07/19
L1946730-34	SB-114_C1_9	SOIL	BROOKLYN, NY	10/07/19 10:17	10/07/19
L1946730-35	SB-114_C1_10	SOIL	BROOKLYN, NY	10/07/19 10:18	10/07/19
L1946730-36	SB-114_C2_0-4	SOIL	BROOKLYN, NY	10/07/19 11:10	10/07/19
L1946730-37	SB-114_C2_4-8	SOIL	BROOKLYN, NY	10/07/19 11:15	10/07/19
L1946730-38	SB-114_C2_8	SOIL	BROOKLYN, NY	10/07/19 11:14	10/07/19
L1946730-39	SB-114_C2_9	SOIL	BROOKLYN, NY	10/07/19 11:11	10/07/19
L1946730-40	SB-114_C2_10	SOIL	BROOKLYN, NY	10/07/19 11:12	10/07/19
L1946730-41	SB-114_C3_0-4	SOIL	BROOKLYN, NY	10/07/19 11:00	10/07/19
L1946730-42	SB-114_C3_4-8	SOIL	BROOKLYN, NY	10/07/19 11:01	10/07/19
L1946730-43	SB-114_C3_8	SOIL	BROOKLYN, NY	10/07/19 11:02	10/07/19
L1946730-44	SB-114_C3_9	SOIL	BROOKLYN, NY	10/07/19 11:04	10/07/19
L1946730-45	SB-114_C3_10	SOIL	BROOKLYN, NY	10/07/19 11:05	10/07/19
L1946730-46	SB-107A_A1_E1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:51	10/07/19
L1946730-47	SB-107A_A1_W1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:47	10/07/19
L1946730-48	SB-107A_A3_2-7	SOIL	BROOKLYN, NY	10/07/19 12:45	10/07/19
L1946730-49	SB-107A_A3_E1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:46	10/07/19
L1946730-50	SB-107A_A3_W1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:48	10/07/19
L1946730-51	SB-107A_B2_2-7	SOIL	BROOKLYN, NY	10/07/19 12:49	10/07/19
Page 4 of 80 L1946730-52	SB-107A_D1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:15	10/07/19

Alpha			Sample	Serial_No:10101916:0		
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date	
L1946730-53	SB-107A_D1_7-12	SOIL	BROOKLYN, NY	10/07/19 12:16	10/07/19	
L1946730-54	SB-107_4.5	SOIL	BROOKLYN, NY	10/07/19 12:00	10/07/19	
L1946730-55	SB-107_6.5	SOIL	BROOKLYN, NY	10/07/19 12:01	10/07/19	
L1946730-56	SB-107_8	SOIL	BROOKLYN, NY	10/07/19 12:02	10/07/19	
L1946730-57	SB-107_9	SOIL	BROOKLYN, NY	10/07/19 12:03	10/07/19	
L1946730-58	SB-107_10	SOIL	BROOKLYN, NY	10/07/19 12:04	10/07/19	



L1946730

Lab Number:

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 10/10/19

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.	



L1946730

Lab Number:

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 10/10/19

Case Narrative (continued)

Report Submission

October 10, 2019: This is a preliminary report.

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

Total Metals

The WG1293764-3 MS recovery, performed on L1946730-03, is outside the acceptance criteria for lead (68%). A post digestion spike was performed and yielded an unacceptable recovery of 65%. The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.

The WG1293764-4 Laboratory Duplicate RPD for lead (34%), performed on L1946730-03, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

Title: Technical Director/Representative Date: 10/10/19

600, Sew on Kelly Stenstrom

METALS



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 Report Date: 10/10/19

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID:L1946730-03Date Collected:10/07/19 07:10Client ID:SB-114_8Date Received:10/07/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil Percent Solids: 82%

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP ND mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 12:15 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:10 L1946730-03 Client ID: SB-114_8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 82% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 5.10 Lead, Total mg/kg 2.30 0.123 1 10/08/19 19:36 10/09/19 14:10 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:02 L1946730-11 Client ID: SB-114_A1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 87% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.115 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 12:31 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 10/10/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1946730-11 Date Collected: 10/07/19 07:02 Client ID: SB-114_A1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 87% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 233 Lead, Total mg/kg 2.20 0.118 1 10/08/19 19:36 10/09/19 15:08 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:01 L1946730-12 Client ID: SB-114_A1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 86% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.063 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 12:36 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 **Project Number:** 170384501 **Report Date:**

10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:01 L1946730-12 Client ID: SB-114_A1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 86%

Percent Solids: Prep **Analytical** Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 40.8 Lead, Total mg/kg 2.20 0.118 1 10/08/19 19:36 10/09/19 15:13 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:08 L1946730-21 Client ID: SB-114_B1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 86% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.102 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 12:40 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 07:08 L1946730-21 Client ID: SB-114_B1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 86% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Prepared Analyzed Method

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab Lead, Total 150 mg/kg 2.24 0.120 1 10/08/19 19:36 10/09/19 15:17 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 08:10 L1946730-22 Client ID: SB-114_B1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 12:57 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 08:10 L1946730-22 Client ID: SB-114_B1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 83% Percent Solids:

Prep **Analytical** Dilution Date Date Method

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 41.9 mg/kg 2.40 0.128 1 10/08/19 19:36 10/09/19 15:21 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-31 10/07/19 10:11 Client ID: SB-114_C1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 80% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.121 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:01 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

10/10/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 10:11 L1946730-31 Client ID: SB-114_C1_0-4 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 80%

Percent Solids: Prep **Analytical** Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 70.6 Lead, Total mg/kg 2.48 0.133 1 10/08/19 19:36 10/09/19 15:26 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-32 10/07/19 10:13 Client ID: SB-114_C1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 84% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.224 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:05 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 **Project Number: Report Date:**

170384501

10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 10:13 L1946730-32 Client ID: SB-114_C1_4-8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 84% Percent Solids:

Prep **Analytical** Dilution Date Date Method

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 107 Lead, Total mg/kg 2.33 0.125 1 10/08/19 19:36 10/09/19 15:30 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-46 10/07/19 12:51 Client ID: SB-107A_A1_E1_2-7 Date Received: 10/07/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 87% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.360 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:09 EPA 3015 1,6010D LC



Date Collected:

Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

10/07/19 12:51

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-46

Client ID: SB-107A_A1_E1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 87% Percent Solids:

Prep **Analytical** Dilution Date Date Method

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 733 Lead, Total mg/kg 2.22 0.119 1 10/08/19 19:36 10/09/19 15:34 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 **Project Number:** 10/10/19

170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-47 10/07/19 12:47

Client ID: SB-107A_A1_W1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 81% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 2.10 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:13 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:47 L1946730-47

Client ID: SB-107A_A1_W1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 81% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL Prepared Analyzed Method MDL

Parameter Analyst Total Metals - Mansfield Lab 696 Lead, Total mg/kg 2.40 0.129 1 10/08/19 19:36 10/09/19 15:39 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-48 10/07/19 12:45 Client ID: SB-107A_A3_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 88% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.848 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:17 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:45 L1946730-48 Client ID: SB-107A_A3_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor**

Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 807 Lead, Total mg/kg 2.15 0.115 1 10/08/19 19:36 10/09/19 15:43 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 **Project Number:** 10/10/19

170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-49 10/07/19 12:46 Client ID: SB-107A_A3_E1_2-7 Date Received: 10/07/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 82% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 3.48 mg/l 0.500 0.027 1 10/10/19 11:05 10/10/19 13:22 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 **Project Number:** 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-49

Date Collected: 10/07/19 12:46 Client ID: SB-107A_A3_E1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 82% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units Prepared Analyzed Method RLMDL

Parameter Analyst Total Metals - Mansfield Lab 1000 Lead, Total mg/kg 2.41 0.129 1 10/08/19 19:36 10/09/19 15:47 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730 10/10/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-50 10/07/19 12:48 Client ID: SB-107A_A3_W1_2-7 Date Received: 10/07/19

Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 73% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.43 mg/l 0.500 0.027 1 10/10/19 10:31 10/10/19 11:42 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:48 L1946730-50

Client ID: SB-107A_A3_W1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 73% Percent Solids:

Prep **Analytical** Dilution Date Date Method

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 733 Lead, Total mg/kg 2.65 0.142 1 10/08/19 19:36 10/09/19 20:11 EPA 3050B 1,6010D MC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-51 10/07/19 12:49 Client ID: SB-107A_B2_2-7 Date Received: 10/07/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 86% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 10/10/19 10:31 10/10/19 11:59 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Report Date: Project Number: 170384501 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-51 Date Collected: 10/07/19 12:49 Client ID: SB-107A_B2_2-7 Date Received: 10/07/19 Field Prep: Sample Location: BROOKLYN, NY Not Specified

Sample Depth:

Matrix: Soil 86%

Percent Solids: **Analytical** Dilution Date Date Prep

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	148		mg/kg	2.23	0.120	1	10/08/19 19:36	6 10/09/19 20:16	EPA 3050B	1,6010D	МС



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-52 10/07/19 12:15 Client ID: SB-107A_D1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 81% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.488 mg/l 0.500 0.027 1 10/10/19 10:31 10/10/19 12:04 EPA 3015 1,6010D LC



1,6010D

MC

10/08/19 19:36 10/09/19 20:20 EPA 3050B

Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

mg/kg

2.38

Lab ID: Date Collected: 10/07/19 12:15 L1946730-52 Client ID: SB-107A_D1_2-7 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Lead, Total

Matrix: Soil 81%

502

Percent Solids: Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab

1

0.128



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-53 10/07/19 12:16 Client ID: SB-107A_D1_7-12 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34

Matrix: Soil 81% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.56 mg/l 0.500 0.027 1 10/10/19 10:31 10/10/19 12:08 EPA 3015 1,6010D LC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:16 L1946730-53 Client ID: SB-107A_D1_7-12 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 81% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 802 Lead, Total mg/kg 2.35 0.126 1 10/08/19 19:36 10/09/19 20:25 EPA 3050B 1,6010D MC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:**

10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:01 L1946730-55 Client ID: SB-107_6.5 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 85% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Prepared Analyzed Method

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 251 Lead, Total mg/kg 2.31 0.124 1 10/08/19 19:36 10/09/19 20:30 EPA 3050B 1,6010D MC



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: Date Collected: 10/07/19 12:02 L1946730-56 Client ID: SB-107_8 Date Received: 10/07/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 80% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 21.6 Lead, Total mg/kg 2.39 0.128 1 10/08/19 19:36 10/09/19 20:58 EPA 3050B 1,6010D MC



Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1946730

Report Date: 10/10/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Ma	ansfield Lab for sample(s):	03,11-12,	21 - 22,3	1-32,46-	53,55-56	Batch: WG129	3764-1		
Lead, Total	ND	mg/kg	2.00	0.107	1	10/08/19 19:36	10/09/19 14:02	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Q	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Mansf	ield Lab	for sample	e(s): 03,	11-12,21	I-22,31-32,	46-49 Batch:	WG1294554	ŀ-1	
Lead, TCLP	0.027	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 12:07	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 10/09/19 06:34

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method		
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 50-53 Batch: WG1294559-1										
Lead, TCLP	ND	mg/l	0.500	0.027	1	10/10/19 10:31	10/10/19 11:34	1,6010D	LC	

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 10/09/19 06:34



Lab Control Sample Analysis Batch Quality Control

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1946730

Report Date:

10/10/19

Parameter	LCS %Recovery Qı	LCSD ual %Recovery Qua	%Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated s	ample(s): 03,11-12,21-22,3	31-32,46-53,55-56 Batch: WG	1293764-2 SRM Lot N	Number: D105-540	
Lead, Total	98	-	71-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 03	3,11-12,21-22,31-32,46-49 Ba	atch: WG1294554-2		
Lead, TCLP	96	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 50	0-53 Batch: WG1294559-2			
Lead, TCLP	100	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1946730

Report Date: 10/10/19

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 As ID: SB-114_8	ssociated sam	ple(s): 03,11	-12,21-22,0	31-32,46-53,5	5-56	QC Batch II	D: WG1293764	-3 Q	C Sample:	L194673	0-03	Client
Lead, Total	5.10	48.3	37.8	68	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - M Client ID: SB-114_8	ansfield Lab A	ssociated sa	ample(s): 03	3,11-12,21-22,	31-32,	46-49 QC	Batch ID: WG1	29455	4-3 QC S	Sample: I	_1946	730-03
Lead, TCLP	ND	5.1	4.92	96		-	-		75-125	-		20
TCLP Metals by EPA 1311 - M 107A_A3_W1_2-7	ansfield Lab A	ssociated sa	ample(s): 50	0-53 QC Bat	ch ID: \	WG1294559	9-3 QC Samp	ole: L19	946730-50	Client I	D: SE	3-
Lead, TCLP	1.43	5.1	6.62	102		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1946730

Report Date:

10/10/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample SB-114_8	(s): 03,11-12,21-22,31-32,46-53,	55-56 QC Batch ID:	WG1293764-4	QC Sam	nple: L19467	730-03 Client ID:
Lead, Total	5.10	7.18	mg/kg	34	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Asso Client ID: SB-114_8	ociated sample(s): 03,11-12,21-22	2,31-32,46-49 QC Ba	atch ID: WG129	4554-4	QC Sample:	L1946730-03
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Asso 107A_A3_W1_2-7	ociated sample(s): 50-53 QC Ba	atch ID: WG1294559-4	4 QC Sample:	L194673	0-50 Client	ID: SB-
Lead, TCLP	1.43	1.39	mg/l	3		20

INORGANICS & MISCELLANEOUS



Project Name: 805 ATLANTIC AVENUE Lab Number:

L1946730 Report Date: **Project Number:** 10/10/19 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-03 10/07/19 07:10 Client ID: SB-114_8 Date Received: 10/07/19 Not Specified Sample Location: BROOKLYN, NY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	81.9		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-11
 Date Collected:
 10/07/19 07:02

 Client ID:
 SB-114_A1_0-4
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total	87.2		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-12
 Date Collected:
 10/07/19 07:01

 Client ID:
 SB-114_A1_4-8
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	86.2		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-21
 Date Collected:
 10/07/19 07:08

 Client ID:
 SB-114_B1_0-4
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	85.8		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-22
 Date Collected:
 10/07/19 08:10

 Client ID:
 SB-114_B1_4-8
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	Vestborough Lab)								
Solids, Total	83.4		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-31
 Date Collected:
 10/07/19 10:11

 Client ID:
 SB-114_C1_0-4
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	80.0		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-32
 Date Collected:
 10/07/19 10:13

 Client ID:
 SB-114_C1_4-8
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	83.8		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-46 Date Collected: 10/07/19 12:51

Client ID: SB-107A_A1_E1_2-7 Date Received: 10/07/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	87.3		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-47 Date Collected: 10/07/19 12:47

Client ID: SB-107A_A1_W1_2-7 Date Received: 10/07/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	80.7		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number:

L1946730 Report Date: **Project Number:** 10/10/19 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-48 10/07/19 12:45 Client ID: SB-107A_A3_2-7 Date Received: 10/07/19 Not Specified Sample Location: BROOKLYN, NY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	88.1		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-49 Date Collected: 10/07/19 12:46

Client ID: SB-107A_A3_E1_2-7 Date Received: 10/07/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	82.2		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number:

L1946730 **Project Number: Report Date:** 10/10/19 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1946730-50 10/07/19 12:48

Client ID: Date Received: 10/07/19 SB-107A_A3_W1_2-7 Not Specified Sample Location: BROOKLYN, NY Field Prep:

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	73.0		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-51
 Date Collected:
 10/07/19 12:49

 Client ID:
 SB-107A_B2_2-7
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result Q	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	86.2		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-52
 Date Collected:
 10/07/19 12:15

 Client ID:
 SB-107A_D1_2-7
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	81.4		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-53
 Date Collected:
 10/07/19 12:16

 Client ID:
 SB-107A_D1_7-12
 Date Received:
 10/07/19

 Client ID:
 Date Received:
 10/07/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	81.3		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-55
 Date Collected:
 10/07/19 12:01

 Client ID:
 SB-107_6.5
 Date Received:
 10/07/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	84.6		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Project Name: 805 ATLANTIC AVENUE Lab Number: L1946730

Project Number: 170384501 **Report Date:** 10/10/19

SAMPLE RESULTS

 Lab ID:
 L1946730-56
 Date Collected:
 10/07/19 12:02

 Client ID:
 SB-107_8
 Date Received:
 10/07/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	79.7		%	0.100	NA	1	-	10/08/19 08:17	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** 805 ATLANTIC AVENUE L1946730

10/10/19 Project Number: 170384501 Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual R	PD Limits
General Chemistry - Westborough Lab Associated ID: SB-114_8	ociated sample(s): 03,11-12,21-22,31-3	32,46-53,55-56 Q0	C Batch ID: WG1:	293430-1	QC Sample:	L1946730-03
Solids, Total	81.9	81.6	%	0		20



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

CoolerCustody SealAAbsentBAbsentCAbsent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1946730-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-01B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-02A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-02B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		PB-TI(180)
L1946730-03B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		TS(7)
L1946730-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.8	Υ	Absent		PB-CI(180)
L1946730-03X9	Tumble Vessel	Α	NA		3.8	Υ	Absent		-
L1946730-04A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-04B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-05B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-06A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-06B	Glass 120ml/4oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-07A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-07B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-08A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-08B	Glass 120ml/4oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-09A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-09B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-10A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1946730-10B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-11A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		PB-TI(180)
L1946730-11B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		TS(7)
L1946730-11X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.8	Υ	Absent		PB-CI(180)
L1946730-11X9	Tumble Vessel	Α	NA		3.8	Υ	Absent		-
L1946730-12A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		PB-TI(180)
L1946730-12B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		TS(7)
L1946730-12X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.8	Υ	Absent		PB-CI(180)
L1946730-12X9	Tumble Vessel	Α	NA		3.8	Υ	Absent		-
L1946730-13A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-13B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-14A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-14B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-15A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-15B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-16A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-16B	Glass 120ml/4oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-17A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-17B	Glass 120ml/4oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-18A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-18B	Glass 120ml/4oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-19A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-19B	Glass 120ml/4oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-20A	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-20B	Glass 120ml/4oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-21A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		PB-TI(180)
L1946730-21B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		TS(7)
L1946730-21X	Plastic 120ml HNO3 preserved Extracts	С	NA		3.5	Υ	Absent		PB-CI(180)



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	-	Pres	Seal	Date/Time	Analysis(*)
L1946730-21X9	Tumble Vessel	С	NA		3.5	Υ	Absent		-
L1946730-22A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		PB-TI(180)
L1946730-22B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		TS(7)
L1946730-22X	Plastic 120ml HNO3 preserved Extracts	С	NA		3.5	Υ	Absent		PB-CI(180)
L1946730-22X9	Tumble Vessel	С	NA		3.5	Υ	Absent		-
L1946730-23A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-23B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-24A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-24B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-25A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-25B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-26A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-26B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-27A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-27B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-28A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-28B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-29A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-29B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-30A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-30B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-31A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		PB-TI(180)
L1946730-31B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		TS(7)
L1946730-31X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.8	Υ	Absent		PB-CI(180)
L1946730-31X9	Tumble Vessel	Α	NA		3.8	Υ	Absent		-
L1946730-32A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		PB-TI(180)
L1946730-32B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		TS(7)
L1946730-32X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.8	Υ	Absent		PB-CI(180)



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН		Pres	Seal	Date/Time	Analysis(*)
L1946730-32X9	Tumble Vessel	Α	NA		3.8	Υ	Absent		-
L1946730-33A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-33B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-34A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-34B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-35A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-35B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-36A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-36B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-37A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-37B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-38A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-38B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-39A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-39B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-40A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-40B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-41A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-41B	Glass 120ml/4oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-42A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-42B	Glass 120ml/4oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-43A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-43B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-44A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-METAL(180)
L1946730-44B	Glass 250ml/8oz unpreserved	Α	NA		3.8	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-45A	Metals Only-Glass 60mL/2oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1946730-45B	Glass 250ml/8oz unpreserved	С	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-46A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1946730-46B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-46X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-46X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-47A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-47B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-47X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-47X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-48A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-48B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-48X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-48X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-49A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-49B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-49X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-49X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-50A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-50B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-50X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-50X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-51A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-51B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-51X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-51X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-52A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-52B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-52X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-52X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-53A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)



Lab Number: L1946730

Report Date: 10/10/19

Project Name: 805 ATLANTIC AVENUE

Project Number: 170384501

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рH		Pres	Seal	Date/Time	Analysis(*)
L1946730-53B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		TS(7)
L1946730-53X	Plastic 120ml HNO3 preserved Extracts	В	NA		5.0	Υ	Absent		PB-CI(180)
L1946730-53X9	Tumble Vessel	В	NA		5.0	Υ	Absent		-
L1946730-54A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-54B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-55A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-55B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14),TS(7)
L1946730-55H	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Υ	Absent		-
L1946730-55I	Metals Only-Glass 60mL/2oz unpreserved	NA	NA			Υ	Absent		-
L1946730-56A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		PB-TI(180)
L1946730-56B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14),TS(7)
L1946730-57A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-57B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-58A	Glass 60ml unpreserved split	В	NA		5.0	Υ	Absent		HOLD-METAL(180)
L1946730-58B	Glass 250ml/8oz unpreserved	В	NA		5.0	Υ	Absent		HOLD-CONTINGENCY(14)
L1946730-59A	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59B	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59C	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59D	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59E	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59F	Vial HCl preserved	С	NA		3.5	Υ	Absent		-
L1946730-59G	Plastic 250ml unpreserved	С	7	7	3.5	Υ	Absent		-
L1946730-59H	Plastic 500ml HNO3 preserved	С	<2	<2	3.5	Υ	Absent		-
L1946730-59I	Plastic 250ml HNO3 preserved	С	<2	<2	3.5	Υ	Absent		-
L1946730-59J	Amber 250ml unpreserved	С	7	7	3.5	Υ	Absent		-
L1946730-59K	Amber 250ml unpreserved	С	7	7	3.5	Υ	Absent		-



Project Name: Lab Number: 805 ATLANTIC AVENUE L1946730

Report Date: Project Number: 170384501 10/10/19

GLOSSARY

Acronyms

LOD

LOQ

MS

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.

- 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.)

- 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

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

MDI - 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.

> - 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.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD 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.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - 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:805 ATLANTIC AVENUELab Number:L1946730Project Number:170384501Report Date:10/10/19

 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 Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- 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 concentrations of the analyte at less than ten times (10x) the concentrations of the analyte was 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- ${\bf E} \qquad \hbox{-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.}$
- 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:805 ATLANTIC AVENUELab Number:L1946730Project Number:170384501Report Date:10/10/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:10101916:02

ID No.:17873 Revision 15

Published Date: 8/15/2019 9:53:42 AM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

ALPHA	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 White Albany, NY 12205: 14 Walke Tonawanda, NY 14150: 275	r Way	e 105		ge 1 of 8		Date Rec'd in Lab	nlo	8 19	ALPHA Jop# 720
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TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 506-822-3288	Project Name:	805 Atlan	tic Avenue			IV	ASP-A		ASP-B	Same as Client Info
10000000000000000000000000000000000000	MANAGEMENT AND	Project Location:	Brooklyn,	NY			-	EQuIS (1 File)	H	EQuIS (4 File)	
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Client: Langan E	ngineering	(Use Project name as I	Project #)				-	WENT DESCRIPTION OF THE PERSON			
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TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name:	805 Atlantic	Avenue			DAS	SP-A	☐ AS	P-B	Same as Client Info
FAX: 500-696-9193	FAX: 508-822-3288	Project Location:	Brooklyn, NY				E(QuIS (1 File)	☐ EC	oulS (4 File)	PO#
Client Information		Project #	170384501					her			
Client: Langan E	ingineering	(Use Project name as P	roject #)				Regulate	ory Requirem	ent		Disposal Site Information
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-12	SB-114_A1_4-8			JOIL	Soil	TM	X				
-13	SB-114_A1_8			7:03	Soil	TM	X				Hold All
-14	SB-114_A1_9			7:0H	Soil	TM	x				Hold All
-19	SB-114_A1_10			4100	Soil	TM	x				Hold All
-16	58-11×- A	2-0-4		00100							HOW ALL
-17	15B-114-A	24-8		9101		0					HOW AU.
-18	SB-114-A	2-8		2102		1					HOUS ALL
-19	15B-11H-04	2-9		9103							HOLDALL
-20	SB-114-6	42-10	V	91105	1	1	1				HOUSELL
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G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	O = Other E = Encore D = BOD Bottle	TOURS MON		10/7/19	18200	Onle	AYOU	AAR	10/7		resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.
Form No: 01-25 (rev. 30-	Sept-2013)	NAX.						\rightarrow			

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ALPHA	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitner Albany, NY 12205: 14 Walker V Tonawanda, NY 14150: 275 Co	Vay	95	Pag	e H	,	Date Rec		0 0	8/19		ALPHA Job# L1946730	0
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T as well as the second	PAX: 308-022-3288			USW, NI	A				6 (1 File)		EQui	S (4 File)	PO#	
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Client: LANGAN		(Use Project name as Pro		- 1	2		-	THE REAL PROPERTY.	Requireme	ent	NAME OF TAXABLE PARTY.		Disposal Site Information	
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ANALYTICAL REPORT

Lab Number: L1925653

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Colin Anderson Phone: (212) 479-5400

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 06/20/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925653 **Report Date:** 06/20/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1925653-01	SB-107_A_7-8	SOIL	BROOKLYN	06/13/19 12:35	06/13/19
L1925653-02	SB-107_B_7-8	SOIL	BROOKLYN	06/13/19 13:10	06/13/19
L1925653-03	SB-107 C 7-8	SOIL	BROOKLYN	06/13/19 12:55	06/13/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653
Project Number: 170384501 Report Date: 06/20/19

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653
Project Number: 170384501 Report Date: 06/20/19

Case Narrative (continued)

Report Submission

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

Total Metals

The WG1250604-3 MS recovery, performed on L1925653-01, is outside the acceptance criteria for lead (72%). A post digestion spike was performed and was within acceptance criteria.

The WG1250604-4 Laboratory Duplicate RPD for lead (38%), performed on L1925653-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

Title: Technical Director/Representative Date: 06/20/19

Custen Walker Cristin Walker

ALPHA

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925653

Project Number: 170384501 **Report Date:** 06/20/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/13/19 12:35 L1925653-01 Client ID: SB-107_A_7-8 Date Received: 06/13/19 Sample Location: **BROOKLYN** Field Prep: Not Specified

Sample Depth:

Matrix: Soil 84% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Prepared Analyzed Method

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 17.0 Lead, Total mg/kg 2.34 0.125 1 06/20/19 00:22 06/20/19 09:51 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925653

Project Number: 170384501 **Report Date:** 06/20/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925653-02 06/13/19 13:10 Client ID: SB-107_B_7-8 Date Received: 06/13/19 Sample Location: **BROOKLYN** Field Prep: Not Specified

Sample Depth:

Matrix: Soil 94% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 3.37 Lead, Total mg/kg 2.08 0.112 1 06/20/19 00:22 06/20/19 10:08 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925653 **Project Number:** 06/20/19

170384501

Report Date:

SAMPLE RESULTS

L1925653-03

Date Collected:

06/13/19 12:55

Client ID: SB-107_C_7-8 Sample Location: **BROOKLYN**

Date Received: 06/13/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

25%

Percent Solids:	85%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	369		mg/kg	2.20	0.118	1	06/20/19 00:2	2 06/20/19 10:12	2 EPA 3050B	1,6010D	LC



L1925653

Project Name: 805-825 ATLANTIC AVENUE Lab Number:

Project Number: 170384501 **Report Date:** 06/20/19

Method Blank Analysis Batch Quality Control

Dilution Date Date Analytical Method Analyst **Parameter Result Qualifier** Units RLMDL **Factor Prepared** Analyzed Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1250604-1 Lead, Total ND mg/kg 2.00 0.107 1 06/20/19 09:43 1,6010D LC 06/20/19 00:22

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number:

L1925653

Project Number: 170384501

Report Date:

06/20/19

Parameter	LCS %Recovery		LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	e(s): 01-03 Bato	ch: WG1250604	-2 SRM Lo	ot Number:	D105-540			
Lead, Total	88		-		71-128	-		



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925653

Report Date:

06/20/19

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recove Qual Limits	,	RPD al Limits
Total Metals - Mansfield	Lab Associated sam	ple(s): 01-03	QC Bat	tch ID: WG1250	0604-3	QC Sam	nple: L1925653-	01 Client ID:	SB-107_A_7-8	3
Lead, Total	17.0	47.4	51.4	72	Q	-	-	75-125	-	20



L1925653

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE Batch Quality Contr

Project Number: 170384501 **Report Date:** 06/20/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual I	RPD Limits
Total Metals - Mansfield Lab Associated sample(s):	01-03 QC Batch ID:	WG1250604-4 QC Sample:	L1925653-01	Client ID:	SB-107_A_	7-8
Lead, Total	17.0	11.6	mg/kg	38	Q	20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653

Project Number: 170384501 **Report Date:** 06/20/19

SAMPLE RESULTS

 Lab ID:
 L1925653-01
 Date Collected:
 06/13/19 12:35

 Client ID:
 SB-107_A_7-8
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total	83.9		%	0.100	NA	1	-	06/15/19 04:24	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653

Project Number: 170384501 **Report Date:** 06/20/19

SAMPLE RESULTS

 Lab ID:
 L1925653-02
 Date Collected:
 06/13/19 13:10

 Client ID:
 SB-107_B_7-8
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	93.8		%	0.100	NA	1	-	06/15/19 04:24	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653

Project Number: 170384501 **Report Date:** 06/20/19

SAMPLE RESULTS

 Lab ID:
 L1925653-03
 Date Collected:
 06/13/19 12:55

 Client ID:
 SB-107_C_7-8
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	85.4		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925653

Report Date: 06/20/19

Parameter	Native Sampl	le Duplicate Sample	e Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab A	Associated sample(s): 01-02 C	QC Batch ID: WG1248878-1	QC Sample: L	1924404-02	Client ID:	DUP Sample
Solids, Total	92.6	93.0	%	0		20
General Chemistry - Westborough Lab A	Associated sample(s): 03 QC I	Batch ID: WG1248911-1 Q	C Sample: L192	25654-01 Cli	ent ID: DU	P Sample
Solids, Total	91.0	91.1	%	0		20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653

Project Number: 170384501 **Report Date:** 06/20/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	Container Information			Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925653-01A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925653-01B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925653-02A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925653-02B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925653-03A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925653-03B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925653

Project Number: 170384501 Report Date: 06/20/19

GLOSSARY

Acronyms

LOQ

MS

NP

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.)

Estimated Detection Limit. This valve content, where applicable. (Dob 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.)

- 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.

- 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.

- 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:805-825 ATLANTIC AVENUELab Number:L1925653Project Number:170384501Report Date:06/20/19

 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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- The lower value for the two columns has been reported due to obvious interference.
- 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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1925653

 Project Number:
 170384501
 Report Date:
 06/20/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 12

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

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene: 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Client Information Client: Languar Address: 260 W.31 Manhattan Phone: 212-479 Fax: 212-479 Email: Canderoux	15+ 5+ 6+ 9 1 1000 1 1-5400 -5444 8 iongan.com	Project Location: B Project # 17038 (Use Project name as P Project Manager: Col ALPHAQuote #: Turn-Around Time Standar Rush (only if pre approve	way poper Ave, Suite 11	ntic Arme			Deliver Regula A	ASP-A EQUIS (1 F Other story Requ IY TOGS WQ Standa IY Restricte IY Unrestrict IYC Sewer	File) Uireme ards ed Use cted Us		ASP-E EQuIS NY Par	3 6 (4 File) 1 375	ALPHA Job # L1925653 Billing Information Same as Client Info Po # Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: NJ NY Other:
These samples have be							ANAL'	YSIS					Sample Filtration
Other project specific Please specify Metals	,	ents:					total lead						□ Done t □ Lab to do a Preservation □ Lab to do (Please Specify below) t
ALPHA Lab ID (Lab Use Only)	Sa	mple ID	Colle	Time	Sample Matrix	Sampler's Initials	7						Sample Specific Comments
25653-01	SB-10	7_A_7-8	6/13/19	1235	5	āA	X	+	+	\vdash	-	_	oampie opacinic comments
-02	SP-10	7_B-7-8	1	1310	i	1	X		+		\neg		
-03	53-10.	7_0_7-8	1	1255	1		X		1		_	\neg	
	/												
HOUSEN EVEN													
MARKET SERVICES									_				
Preservative Code:	Container Code						\vdash				_		
A = None B = HCI C = HNO ₃ D = H ₂ SO ₄	P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification I Mansfield: Certification I				reservative	202						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
G = NaHSO ₄ H = Na ₂ S ₂ O ₃	C = Cube O = Other E = Encore D = BOD Bottle -Sept-2013)	Relinquished	_	6 13 15 6 13 15 6 13 17	-14:3	DS.1	Receive	d By:	9	13/		Time 136 02'02 00:05	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES



ANALYTICAL REPORT

Lab Number: L1925654

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Colin Anderson Phone: (212) 479-5400

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 07/16/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925654 **Report Date:** 07/16/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1925654-01	SB-107A_A1_2-7	SOIL	BROOKLYN	06/13/19 08:34	06/13/19
L1925654-02	SB-107A_A1_7-12	SOIL	BROOKLYN	06/13/19 08:35	06/13/19
L1925654-03	SB-107A_A2_2-7	SOIL	BROOKLYN	06/13/19 09:12	06/13/19
L1925654-04	SB-107A_A2_7-12	SOIL	BROOKLYN	06/13/19 09:15	06/13/19
L1925654-05	SB-107A_B1_2-7	SOIL	BROOKLYN	06/13/19 10:51	06/13/19
L1925654-06	SB-107A_B1_7-12	SOIL	BROOKLYN	06/13/19 10:53	06/13/19
L1925654-07	SB-107A_B2_2-7	SOIL	BROOKLYN	06/13/19 11:10	06/13/19
L1925654-08	SB-107A_B2_7-12	SOIL	BROOKLYN	06/13/19 11:15	06/13/19
L1925654-09	SB-107A_C1_2-7	SOIL	BROOKLYN	06/13/19 10:00	06/13/19
L1925654-10	SB-107A_C1_7-12	SOIL	BROOKLYN	06/13/19 10:12	06/13/19
L1925654-11	SB-107A_C2_2-7	SOIL	BROOKLYN	06/13/19 10:27	06/13/19
L1925654-12	SB-107A_C2_7-12	SOIL	BROOKLYN	06/13/19 10:33	06/13/19
L1925654-13	SB-107A_12	SOIL	BROOKLYN	06/13/19 09:32	06/13/19
L1925654-14	SB-107A_13	SOIL	BROOKLYN	06/13/19 09:30	06/13/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654
Project Number: 170384501 Report Date: 07/16/19

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.	



Project Name:805-825 ATLANTIC AVENUELab Number:L1925654Project Number:170384501Report Date:07/16/19

Case Narrative (continued)

Report Submission

July 16, 2019: This final report includes the results of all requested analyses.

July 12, 2019: This preliminary report includes the results of the Total Lead analysis performed on L1925654-08.

June 28, 2019: This preliminary report includes the results of the TCLP Lead analysis performed on L1925654-04 and -08.

June 21, 2019: This is a preliminary report.

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

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.

tirhelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 07/16/19



METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-01 06/13/19 08:34 Client ID: SB-107A_A1_2-7 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 91% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.418 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 15:34 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/13/19 08:34 L1925654-01 Client ID: SB-107A_A1_2-7 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth:

Matrix: Soil 91% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Prepared Parameter** Result Qualifier Units RL MDL Analyzed Method

Analyst Total Metals - Mansfield Lab 739 Lead, Total mg/kg 2.19 0.118 1 06/20/19 00:22 06/20/19 10:17 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-02 06/13/19 08:35 Client ID: SB-107A_A1_7-12 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 88% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 5.43 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 15:53 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654 07/16/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1925654-02

SB-107A_A1_7-12

Date Collected: Date Received: 06/13/19 08:35 06/13/19

Sample Location:

BROOKLYN

Field Prep:

Not Specified

Sample Depth:

Matrix:

Client ID:

Soil

Percent Solids:

88%

	Dilution	Date	Date	Prep	Analytical	
MDI	Factor	Prepared	Analyzed	Method	Method Apalys	•

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	855		mg/kg	2.26	0.121	1	06/20/19 00:22	2 06/20/19 10:33	B EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654 Report Date: 07/16/19

Project Number: 170384501

SAMPLE RESULTS

06/13/19 09:15

Client ID:

Lab ID:

L1925654-04

Date Collected: Date Received:

06/13/19

Sample Location:

SB-107A_A2_7-12 **BROOKLYN**

Field Prep:

Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/25/19 05:32

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA	A 1311 - I	Mansfield L	.ab								
Lead, TCLP	11.5		mg/l	0.500	0.027	1	06/28/19 10:4	6 06/28/19 13:59	EPA 3015	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-05 06/13/19 10:51 Client ID: SB-107A_B1_2-7 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 87% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.40 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 15:58 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-05 06/13/19 10:51 Client ID: SB-107A_B1_2-7 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth:

Matrix: Soil 87% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab Lead, Total 1130 mg/kg 2.23 0.120 1 06/20/19 00:22 06/20/19 10:38 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-06 06/13/19 10:53 Client ID: SB-107A_B1_7-12 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 69% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 28.9 mg/l 0.500 0.027 1 06/20/19 13:40 06/20/19 15:48 EPA 3015 1,6010D LC



Not Specified

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654 **Report Date:** 07/16/19

Project Number: 170384501

Field Prep:

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-06 06/13/19 10:53 Client ID: SB-107A_B1_7-12 Date Received: 06/13/19

BROOKLYN

Sample Depth:

Sample Location:

Matrix: Soil 69% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 734 Lead, Total mg/kg 2.85 0.153 1 06/20/19 00:22 06/20/19 10:42 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-08 06/13/19 11:15 Client ID: SB-107A_B2_7-12 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/25/19 05:32

Matrix: Soil 85% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 06/28/19 10:46 06/28/19 14:03 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654 **Project Number: Report Date:**

170384501

07/16/19

SAMPLE RESULTS

Lab ID: L1925654-08

Client ID: SB-107A_B2_7-12 Sample Location: **BROOKLYN**

Date Collected: 06/13/19 11:15 Date Received: 06/13/19

Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

85% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab Lead, Total 11.2 mg/kg 2.31 0.124 1 07/09/19 19:15 07/10/19 23:10 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-09 06/13/19 10:00 Client ID: SB-107A_C1_2-7 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 89% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.411 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 16:03 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654 **Project Number:** 07/16/19

170384501

Report Date:

SAMPLE RESULTS

mg/kg

2.13

L1925654-09

Date Collected:

06/13/19 10:00

1,6010D

LC

Client ID: SB-107A_C1_2-7 Sample Location: **BROOKLYN**

Date Received: 06/13/19 Field Prep: Not Specified

06/20/19 00:22 06/20/19 10:47 EPA 3050B

Sample Depth:

Matrix:

Lead, Total

Lab ID:

Soil

196

89% Percent Solids:

reiterit Solius.	0070					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										

0.114



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-10 06/13/19 10:12 Client ID: SB-107A_C1_7-12 Date Received: 06/13/19 Sample Location: Field Prep: Not Specified **BROOKLYN**

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 86% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.405 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 18:15 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:**

07/16/19

SAMPLE RESULTS

Date Collected:

Lab ID: L1925654-10 Client ID: SB-107A_C1_7-12

Date Received:

06/13/19 10:12 06/13/19

Sample Location: **BROOKLYN** Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

Percent Solids:

86%

. crocm condo.						Dilution	Date	Date	Prep	Analytical	
Darameter	Pocult	Qualifier	Unite	DI	MDI	Factor	Prepared	Analyzed	Method	Method	Analyst

Parameter Result Analyst RLMDL Total Metals - Mansfield Lab Lead, Total 134 1,6010D mg/kg 2.21 0.118 1 06/20/19 00:22 06/20/19 10:51 EPA 3050B LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-13 06/13/19 09:32 Client ID: SB-107A_12 Date Received: 06/13/19 Sample Location: **BROOKLYN** Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 94% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.035 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 18:20 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/13/19 09:32 L1925654-13 Client ID: SB-107A_12 Date Received: 06/13/19 **BROOKLYN** Sample Location: Field Prep: Not Specified

Sample Depth:

Matrix: Soil 94% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab Lead, Total 18.5 mg/kg 2.08 0.111 1 06/20/19 00:22 06/20/19 10:55 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925654-14 06/13/19 09:30 Client ID: SB-107A_13 Date Received: 06/13/19 Sample Location: **BROOKLYN** Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11

Matrix: Soil 81% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.30 mg/l 0.500 0.027 1 06/20/19 13:00 06/20/19 18:25 EPA 3015 1,6010D LC



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 470384504 Penert Date: 07/46/40

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID:L1925654-14Date Collected:06/13/19 09:30Client ID:SB-107A_13Date Received:06/13/19Sample Location:BROOKLYNField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 81%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 73.2 Lead, Total mg/kg 2.33 0.125 1 06/20/19 00:22 06/20/19 11:00 EPA 3050B 1,6010D LC



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Re

Lab Number: L1925654

Report Date: 07/16/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor		Date Analyzed	Analytical Method	
Total Metals -	- Mansfield Lab for sample(s):	01-02,05	5-06,09-1	0,13-14	Batch: \	WG1250604-1			
Lead, Total	ND	mg/kg	2.00	0.107	1	06/20/19 00:22	06/20/19 09:43	3 1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 13	311 - Mansfield Lab	for sample	e(s): 01-	02,05,09	9-10,13-14	Batch: WG12	250987-1		
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/20/19 13:00	06/20/19 15:25	5 1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/15/19 19:11

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	l Analyst
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 06	Batch:	WG12510	05-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/20/19 13:40	06/20/19 15:14	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/15/19 19:11

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	A 1311 - Mansfield Lab	for sample	e(s): 04,	08 Bat	ch: WG125	54345-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/28/19 10:46	06/28/19 13:11	1,6010D	LC



L1925654

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 07/16/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/25/19 05:32

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	08 Batch:	WG12	257698-	1				
Lead, Total	ND	mg/kg	2.00	0.107	1	07/09/19 19:15	07/10/19 20:36	3 1,6010D	AB

Prep Information

Digestion Method: EPA 3050B



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925654

Report Date:

07/16/19

Parameter	LCS %Recovery	LCSD Qual %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab A	Associated sample(s): 01-02,05-06,	09-10,13-14 Batch: WG1:	250604-2	SRM Lot Number: D	105-540		
Lead, Total	88	-		71-128	-		
TCLP Metals by EPA 1311 - M	ansfield Lab Associated sample(s	: 01-02,05,09-10,13-14 E	Batch: WG12	250987-2			
Lead, TCLP	100	-		75-125	-		20
TCLP Metals by EPA 1311 - M	ansfield Lab Associated sample(s	: 06 Batch: WG1251005-	-2				
Lead, TCLP	102	-		75-125	-		20
ΓCLP Metals by EPA 1311 - M	ansfield Lab Associated sample(s	: 04,08 Batch: WG12543	45-2				
Lead, TCLP	105	-		75-125	-		20
Total Metals - Mansfield Lab A	Associated sample(s): 08 Batch: V	VG1257698-2 SRM Lot N	Number: D1	05-540			
Lead, Total	94	-		71-128	-		



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925654

Report Date: 07/16/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	F Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Sample	Associated sar	mple(s): 01-0	02,05-06,09-	10,13-14 QC	Batch	ID: WG1250	0604-3 QC	Sample:	L1925653	-01 (Client ID:	MS
Lead, Total	17.0	47.4	51.4	72	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - ID: SB-107A_A1_2-7	Mansfield Lab	Associated :	sample(s): 0	1-02,05,09-10,	13-14	QC Batch I	D: WG125098	37-3 C	C Sample	: L192	5654-01	Client
Lead, TCLP	0.418J	5.1	5.50	108		-	-		75-125	-		20
TCLP Metals by EPA 1311 - 12	Mansfield Lab	Associated :	sample(s): 0	6 QC Batch	ID: WG	1251005-3	QC Sample:	L19256	54-06 CI	ient ID	: SB-10	7A_B1_7
Lead, TCLP	28.9	5.1	34.3	106		-	-		75-125	-		20
TCLP Metals by EPA 1311 -	Mansfield Lab	Associated :	sample(s): 0	4,08 QC Bat	ch ID: V	VG1254345-	3 QC Samp	ole: L192	25270-01	Clien	t ID: MS	Sample
Lead, TCLP	0.234J	5.1	5.52	108		-	-		75-125	-		20
Total Metals - Mansfield Lab	Associated sai	mple(s): 08	QC Batch I	D: WG125769	8-3 C	QC Sample:	L1929103-06	Client	ID: MS Sa	ample		
Lead, Total	597	49.1	382	0	Q	-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925654

Report Date: 07/16/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual R	PD Limits
Total Metals - Mansfield Lab Associated sample(s): Sample	01-02,05-06,09-10,13-14	QC Batch ID: WG12506	04-4 QC Sam	ple: L19256	653-01 Clier	t ID: DUP
Lead, Total	17.0	11.6	mg/kg	38	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Association: SB-107A_A1_2-7	ted sample(s): 01-02,05,09	9-10,13-14 QC Batch ID:	WG1250987-4	4 QC Sam _l	ole: L19256	54-01 Client
Lead, TCLP	0.418J	0.400J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Association 12	ted sample(s): 06 QC Ba	tch ID: WG1251005-4 (QC Sample: L1	925654-06	Client ID: SI	3-107A_B1_7-
Lead, TCLP	28.9	28.8	mg/l	0		20
TCLP Metals by EPA 1311 - Mansfield Lab Associa	ted sample(s): 04,08 QC	Batch ID: WG1254345-4	QC Sample:	L1925270-0	01 Client ID:	DUP Sample
Lead, TCLP	0.234J	0.210J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s):	08 QC Batch ID: WG12	57698-4 QC Sample: L	1929103-06 Cli	ent ID: DUF	Sample	
Lead, Total	597	925	mg/kg	43	Q	20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-01
 Date Collected:
 06/13/19 08:34

 Client ID:
 SB-107A_A1_2-7
 Date Received:
 06/13/19

 Completed:
 PROOKLYM
 Not Specified

Sample Location: BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	91.0		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-02
 Date Collected:
 06/13/19 08:35

 Client ID:
 SB-107A_A1_7-12
 Date Received:
 06/13/19

Sample Location: BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	87.6		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-05
 Date Collected:
 06/13/19 10:51

 Client ID:
 SB-107A_B1_2-7
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	•								
Solids, Total	87.3		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-06
 Date Collected:
 06/13/19 10:53

 Client ID:
 SB-107A_B1_7-12
 Date Received:
 06/13/19

Sample Location: BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	69.4		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

Lab ID: L1925654-08 Date Collected: 06/13/19 11:15

Client ID: SB-107A_B2_7-12 Date Received: 06/13/19
Sample Location: BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	84.8		%	0.100	NA	1	-	07/08/19 07:05	121,2540G	CG



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-09
 Date Collected:
 06/13/19 10:00

 Client ID:
 SB-107A_C1_2-7
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	88.5		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-10
 Date Collected:
 06/13/19 10:12

 Client ID:
 SB-107A_C1_7-12
 Date Received:
 06/13/19

Sample Location: BROOKLYN Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	85.6		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-13
 Date Collected:
 06/13/19 09:32

 Client ID:
 SB-107A_12
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	94.0		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925654

Project Number: 170384501 **Report Date:** 07/16/19

SAMPLE RESULTS

 Lab ID:
 L1925654-14
 Date Collected:
 06/13/19 09:30

 Client ID:
 SB-107A_13
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	81.3		%	0.100	NA	1	-	06/15/19 06:42	121,2540G	RI



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925654

Report Date:

07/16/19

Parameter	Native Sample	Duplicate Sample	Units	RPD C	Qual RPD Limits
General Chemistry - Westborough Lab Associated sa ID: SB-107A_A1_2-7	mple(s): 01-02,05-06,09-10	0,13-14 QC Batch ID	: WG1248911-1	QC Sample	e: L1925654-01 Client
Solids, Total	91.0	91.1	%	0	20
General Chemistry - Westborough Lab Associated sa	mple(s): 08 QC Batch ID	: WG1256914-1 QC	Sample: L19293	366-02 Client	ID: DUP Sample
Solids, Total	81.5	83.1	%	2	20



Serial_No:07161911:49 *Lab Number:* L1925654

Report Date: 07/16/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Container Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925654-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-01B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-01X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-02B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-02X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-03A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1925654-03B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1925654-04A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1925654-04B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		-
L1925654-04X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-04X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-05B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-05X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-05X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-06A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-06B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-06X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-06X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-07A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-METAL(180)
	Container ID L1925654-01A L1925654-01X L1925654-01X L1925654-02A L1925654-02B L1925654-02X L1925654-02X L1925654-03A L1925654-03B L1925654-04A L1925654-04B L1925654-04X L1925654-05A L1925654-05A L1925654-05A L1925654-05X L1925654-06A L1925654-06A L1925654-06B L1925654-06X L1925654-06X	L1925654-01A Metals Only-Glass 60mL/2oz unpreserved L1925654-01B Glass 250ml/8oz unpreserved L1925654-01X Plastic 120ml HNO3 preserved Extracts L1925654-01X9 Tumble Vessel L1925654-02A Metals Only-Glass 60mL/2oz unpreserved L1925654-02B Glass 250ml/8oz unpreserved L1925654-02B Plastic 120ml HNO3 preserved Extracts L1925654-02X Plastic 120ml HNO3 preserved Extracts L1925654-02X9 Tumble Vessel L1925654-03A Glass 60mL/2oz unpreserved L1925654-03B Glass 250ml/8oz unpreserved L1925654-04A Glass 60mL/2oz unpreserved L1925654-04B Glass 250ml/8oz unpreserved L1925654-04X Plastic 120ml HNO3 preserved Extracts L1925654-04X9 Tumble Vessel L1925654-05A Metals Only-Glass 60mL/2oz unpreserved L1925654-05B Glass 250ml/8oz unpreserved L1925654-05X Plastic 120ml HNO3 preserved Extracts L1925654-05X9 Tumble Vessel L1925654-06A Metals Only-Glass 60mL/2oz unpreserved	Container ID Container Type Cooler L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A L1925654-01B Glass 250ml/8oz unpreserved A L1925654-01X Plastic 120ml HNO3 preserved Extracts A L1925654-01X9 Tumble Vessel A L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A L1925654-02B Glass 250ml/8oz unpreserved A L1925654-02B Plastic 120ml HNO3 preserved Extracts A L1925654-02B Glass 60mL/2oz unpreserved A L1925654-02X Plastic 120ml HNO3 preserved A L1925654-03A Glass 60mL/2oz unpreserved A L1925654-03B Glass 250ml/8oz unpreserved A L1925654-04A Glass 60mL/2oz unpreserved A L1925654-04B Glass 250ml/8oz unpreserved Extracts A L1925654-05A Metals Only-Glass 60mL/2oz unpreserved A L1925654-05B Glass 250ml/8oz unpreserved Extracts A L1925654-06X Plastic 120ml HNO3 preserved Extracts A L1925654-06B Glass 250ml/8o	Container ID Container Type Cooler pH L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA L1925654-01B Glass 250ml/8oz unpreserved A NA L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA L1925654-01X9 Tumble Vessel A NA L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA L1925654-02B Glass 250ml/8oz unpreserved A NA L1925654-02B Glass 250ml/8oz unpreserved Extracts A NA L1925654-02W Plastic 120ml HNO3 preserved Extracts A NA L1925654-02X9 Tumble Vessel A NA L1925654-03A Glass 60mL/2oz unpreserved A NA L1925654-03B Glass 250ml/8oz unpreserved A NA L1925654-04A Glass 60mL/2oz unpreserved A NA L1925654-04B Glass 250ml/8oz unpreserved Extracts A NA L1925654-04X9 Tumble Vessel A NA L1925654-05B Glas	Container ID Container Type Cooler pH PH L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA L1925654-01B Glass 250ml/8oz unpreserved A NA L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA L1925654-01X9 Tumble Vessel A NA L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA L1925654-02B Glass 250ml/8oz unpreserved A NA L1925654-02B Glass 250ml/8oz unpreserved Extracts A NA L1925654-02X Plastic 120ml HNO3 preserved Extracts A NA L1925654-02X9 Tumble Vessel A NA L1925654-03B Glass 250ml/8oz unpreserved A NA L1925654-04B Glass 250ml/8oz unpreserved A NA L1925654-04B Glass 250ml/8oz unpreserved Extracts A NA L1925654-04X9 Tumble Vessel A NA L1925654-05A Metals Only-Glass 60mL/2oz unpreserved A NA <	Container ID Container Type Cooler pH pH deg C L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 L1925654-01B Glass 250ml/8oz unpreserved A NA 3.5 L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA 3.5 L1925654-01X9 Tumble Vessel A NA 3.5 L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 L1925654-02B Glass 250ml/8oz unpreserved Extracts A NA 3.5 L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 L1925654-02X Plastic 120ml HNO3 preserved A NA 3.5 L1925654-03A Glass 250ml/8oz unpreserved A NA 3.5 L1925654-04B Glass 250ml/8oz unpreserved A NA 3.5	Container ID Container Type Cooler pH Hearth deg C Pres L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y L1925654-01B Glass 250ml/8oz unpreserved A NA 3.5 Y L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA 3.5 Y L1925654-01X9 Tumble Vessel A NA 3.5 Y L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 Y L1925654-02X Plastic 120ml HNO3 preserved Extracts A NA 3.5 Y L1925654-02X9 Tumble Vessel A NA 3.5 Y L1925654-03A Glass 60mL/2oz unpreserved A NA 3.5 Y L1925654-04B Glass 250ml/8oz unpreserved A NA 3.5 Y L1925654-04B Glass 250ml/8oz unpreserved A NA	Container ID Container Type Cooler PH PH deg C Pres Seal L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y Absent L1925654-01B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA 3.5 Y Absent L1925654-01X9 Tumble Vessel A NA 3.5 Y Absent L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y Absent L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-02X Plastic 120ml HNO3 preserved Extracts A NA 3.5 Y Absent L1925654-03X9 Tumble Vessel A NA 3.5 Y Absent L1925654-03B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-04B Glass 250ml/8oz unpreserve	Container ID Container Type Cooler pH pH deg C Pres Seal Seal Date/Time L1925654-01A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y Absent L1925654-01B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-01X Plastic 120ml HNO3 preserved Extracts A NA 3.5 Y Absent L1925654-01X9 Tumble Vessel A NA 3.5 Y Absent L1925654-02A Metals Only-Glass 60mL/2oz unpreserved A NA 3.5 Y Absent L1925654-02B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-02X9 Tumble Vessel A NA 3.5 Y Absent L1925654-03A0 Glass 60mL/2oz unpreserved A NA 3.5 Y Absent L1925654-04B Glass 250ml/8oz unpreserved A NA 3.5 Y Absent L1925654-03B Glas



Lab Number: L1925654

Report Date: 07/16/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925654-07B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1925654-08A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-08B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-08X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-08X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-09A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-09B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-09X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-09X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-10A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-10B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-10X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-10X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-11A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1925654-11B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1925654-12A	Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-METAL(180)
L1925654-12B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1925654-13A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-13B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-13X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-13X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1925654-14A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.5	Υ	Absent		PB-TI(180)
L1925654-14B	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		TS(7)
L1925654-14X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1925654-14X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-



Project Name:805-825 ATLANTIC AVENUELab Number:L1925654Project Number:170384501Report Date:07/16/19

GLOSSARY

Acronyms

EDL

LOD

LOQ

MS

NP

SRM

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.)

 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.

 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.)

 - 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.

 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.

- 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.

- 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:805-825 ATLANTIC AVENUELab Number:L1925654Project Number:170384501Report Date:07/16/19

 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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- The lower value for the two columns has been reported due to obvious interference.
- 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.)
- \boldsymbol{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:805-825 ATLANTIC AVENUELab Number:L1925654Project Number:170384501Report Date:07/16/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 12

Page 1 of 1

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

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene: 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Client Information Client: Lagan	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		vay oper Ave, Suite 10 825 AHA OOKLYN 4501		Page of		Delive	Date Rein Lab erables: ASP-A NO EQUIS (1 Other	File)	ASP-	В	ALPHA Job # L1925654 Billing Information Same as Client Info Po # Disposal Site Information
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-10	SB-107A	_C1_7-12	1	1012	1	1	X	×					
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ANALYTICAL REPORT

Lab Number: L1929395

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Colin Anderson Phone: (212) 479-5400

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

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).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1929395 **Report Date:** 07/12/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1929395-01	SB-107_A_7-8	SOIL	BROOKLYN	06/13/19 12:35	06/13/19
L1929395-02	SB-107_B_7-8	SOIL	BROOKLYN	06/13/19 13:10	06/13/19
L1929395-03	SB-107 C 7-8	SOIL	BROOKLYN	06/13/19 12:55	06/13/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1929395

Project Number: 170384501 **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.	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1929395

Project Number: 170384501 **Report Date:** 07/12/19

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.

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:

Title: Technical Director/Representative Date: 07/12/19

Melissa Sturgis Melissa Sturgis

METALS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1929395

Project Number: 470384504

Project Number: 470384504

Project Number: 470384504

Project Number: 170384501 **Report Date:** 07/12/19

SAMPLE RESULTS

 Lab ID:
 L1929395-01
 Date Collected:
 06/13/19 12:35

 Client ID:
 SB-107_A_7-8
 Date Received:
 06/13/19

 Sample Location:
 BROOKLYN
 Field Prep:
 Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/04/19 11:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EP.	A 1311 - I	Mansfield L	.ab								
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/11/19 12:0	1 07/12/19 00:44	EPA 3015	1,6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1929395 **Report Date:**

Project Number: 170384501

SAMPLE RESULTS

07/12/19

Lab ID: L1929395-02

SB-107_B_7-8

Date Collected:

06/13/19 13:10

Client ID: Sample Location: **BROOKLYN**

Date Received: Field Prep:

06/13/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/04/19 11:03

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EP	A 1311 - I	Mansfield L	.ab								
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/11/19 12:0	1 07/12/19 00:49	EPA 3015	1,6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1929395 07/12/19

Project Number: 170384501 Report Date:

SAMPLE RESULTS

Lab ID: L1929395-03 Client ID: SB-107_C_7-8 Date Collected: Date Received: 06/13/19 12:55 06/13/19

Sample Location: **BROOKLYN** Field Prep:

Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/04/19 11:03

Matrix:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA	A 1311 - N	Mansfield L	ab								
Lead, TCLP	4.23		mg/l	0.500	0.027	1	07/11/19 12:0	1 07/12/19 01:26	EPA 3015	1,6010D	AB



L1929395

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 07/12/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
TCLP Metals by EPA	A 1311 - Mansfield Lab	for sample	e(s): 03	Batch:	WG12586	44-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/11/19 12:01	07/12/19 00:20	1,6010D	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/04/19 11:03

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	l Analyst
TCLP Metals by EPA 13	311 - Mansfield Lab	for sample	e(s): 01-	02 Bat	ch: WG125	58647-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/11/19 12:01	07/11/19 23:24	1,6010D	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/03/19 19:50



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE 170384501

Project Number:

Lab Number:

L1929395

Report Date:

07/12/19

Parameter	LCS %Recovery Qual	LCSD %Recovery Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 03 B	eatch: WG1258644-2				
Lead, TCLP	103	-	75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 01-02	Batch: WG1258647-2				
Lead, TCLP	101	-	75-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1929395

Report Date: 07/12/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Reco Qual Lim	•	RPD Qual Limits
TCLP Metals by EPA 1311 -	Mansfield Lab	Associated	sample(s): 03	3 QC Batch	ID: WG	1258644-3	QC Sample:	L1929190-0	1 Client ID	: MS Sample
Lead, TCLP	0.094J	5.1	5.18	102		-	-	75-1	25 -	20
TCLP Metals by EPA 1311 -	- Mansfield Lab	Associated	sample(s): 01	1-02 QC Ba	tch ID: V	VG1258647	-3 QC Sam	ple: L192938	1-01 Clien	t ID: MS Sample
Lead, TCLP	ND	5.1	5.22	102		-	-	75-1	25 -	20

L1929395

Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 07/12/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual F	RPD Limits
TCLP Metals by EPA 1311 - Mansfield L	ab Associated sample(s): 03 QC	Batch ID: WG1258644-4	QC Sample:	L1929190-01	Client ID: [OUP Sample
Lead, TCLP	0.094J	0.095J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield L	ab Associated sample(s): 01-02	QC Batch ID: WG1258647-4	4 QC Sampl	e: L1929381-	01 Client ID): DUP Sample
Lead, TCLP	ND	ND	mg/l	NC		20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1929395

Project Number: 170384501 **Report Date:** 07/12/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	Container Information				Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1929395-01A	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		-
L1929395-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1929395-01X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1929395-02A	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		-
L1929395-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1929395-02X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-
L1929395-03A	Glass 250ml/8oz unpreserved	Α	NA		3.5	Υ	Absent		-
L1929395-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.5	Υ	Absent		PB-CI(180)
L1929395-03X9	Tumble Vessel	Α	NA		3.5	Υ	Absent		-



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1929395 **Report Date: Project Number:** 170384501 07/12/19

GLOSSARY

Acronyms

EDL

LOD

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.)

- 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.

- 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

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

MDI - 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.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- 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.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - 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

RPD

Report Format: DU Report with 'J' Qualifiers



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1929395

 Project Number:
 170384501
 Report Date:
 07/12/19

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

Terms

1

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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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.)
- \boldsymbol{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: 805-825 ATLANTIC AVENUE Lab Number: L1929395
Project Number: 170384501 Report Date: 07/12/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 12

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

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene: 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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ANALYTICAL REPORT

Lab Number: L1932112

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Del Col Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 08/08/19

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L1932112

 Report Date:
 08/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932112-01	SB-107A_A3_3	SOIL	BROOKLYN, NY	07/19/19 10:00	07/19/19
L1932112-02	SB-107A_A3_5	SOIL	BROOKLYN, NY	07/19/19 10:01	07/19/19
L1932112-03	SB-107A_A3_7-12	SOIL	BROOKLYN, NY	07/19/19 10:02	07/19/19
L1932112-04	SB-107A_A3_12	SOIL	BROOKLYN, NY	07/19/19 10:04	07/19/19
L1932112-05	SB-107A_A3_13	SOIL	BROOKLYN, NY	07/19/19 10:05	07/19/19
L1932112-06	SB-107A_A3-E1_3	SOIL	BROOKLYN, NY	07/19/19 12:10	07/19/19
L1932112-07	SB-107A_A3_E1_5	SOIL	BROOKLYN, NY	07/19/19 12:11	07/19/19
L1932112-08	SB-107A_A3_E1_7-12	SOIL	BROOKLYN, NY	07/19/19 12:12	07/19/19
L1932112-09	SB-107A_A3_E1_12	SOIL	BROOKLYN, NY	07/19/19 12:13	07/19/19
L1932112-10	SB-107A_A3_E1_13	SOIL	BROOKLYN, NY	07/19/19 12:14	07/19/19
L1932112-11	SB-107A_A3-W1_3	SOIL	BROOKLYN, NY	07/19/19 12:45	07/19/19
L1932112-12	SB-107A_A3_W1_5	SOIL	BROOKLYN, NY	07/19/19 12:46	07/19/19
L1932112-13	SB-107A_A3_W1_7-12	SOIL	BROOKLYN, NY	07/19/19 12:47	07/19/19
L1932112-14	SB-107A_A3_W1_12	SOIL	BROOKLYN, NY	07/19/19 12:48	07/19/19
L1932112-15	SB-107A_A3_W1_13	SOIL	BROOKLYN, NY	07/19/19 12:49	07/19/19
L1932112-16	SB-107A_A1_3	SOIL	BROOKLYN, NY	07/19/19 08:48	07/19/19
L1932112-17	SB-107A_A1_5	SOIL	BROOKLYN, NY	07/19/19 08:49	07/19/19
L1932112-18	SB-107A_A1_12	SOIL	BROOKLYN, NY	07/19/19 08:50	07/19/19
L1932112-19	SB-107A_A1_13	SOIL	BROOKLYN, NY	07/19/19 08:51	07/19/19
L1932112-20	SB-107A_A1_E1_3	SOIL	BROOKLYN, NY	07/19/19 11:35	07/19/19
L1932112-21	SB-107A_A1_E1_5	SOIL	BROOKLYN, NY	07/19/19 11:36	07/19/19
L1932112-22	SB-107A_A1_E1_7-12	SOIL	BROOKLYN, NY	07/19/19 11:37	07/19/19
L1932112-23	SB-107A_A1_E1_12	SOIL	BROOKLYN, NY	07/19/19 11:38	07/19/19
Pagg2195774	SB-107A_A1_E1_13	SOIL	BROOKLYN, NY	07/19/19 11:39	07/19/19



Alpha			Cample	Serial_No Collection	o:08081914:10
Sample ID	Client ID	Matrix	Sample Location	Date/Time	Receive Date
L1932112-25	SB-107A_A1-W1_3	SOIL	BROOKLYN, NY	07/19/19 13:16	07/19/19
L1932112-26	SB-107A_A1-W1_5	SOIL	BROOKLYN, NY	07/19/19 13:17	07/19/19
L1932112-27	SB-107A_A2_3	SOIL	BROOKLYN, NY	07/19/19 09:28	07/19/19
L1932112-28	SB-107A_A2_5	SOIL	BROOKLYN, NY	07/19/19 09:29	07/19/19
L1932112-29	SB-107A_A2_12	SOIL	BROOKLYN, NY	07/19/19 09:30	07/19/19
L1932112-30	SB-107A_A2_13	SOIL	BROOKLYN, NY	07/19/19 09:31	07/19/19
L1932112-31	SB-107A_B1_3	SOIL	BROOKLYN, NY	07/19/19 10:42	07/19/19
L1932112-32	SB-107A_B1_5	SOIL	BROOKLYN, NY	07/19/19 10:43	07/19/19
L1932112-33	SB-107A_B1_12	SOIL	BROOKLYN, NY	07/19/19 10:44	07/19/19
L1932112-34	SB-107A_B1_13	SOIL	BROOKLYN, NY	07/19/19 10:45	07/19/19
L1932112-35	SB-107A_3	SOIL	BROOKLYN, NY	07/19/19 08:00	07/19/19
L1932112-36	SB-107A_5	SOIL	BROOKLYN, NY	07/19/19 08:01	07/19/19
L1932112-37	DUP02_20190719	SOIL	BROOKLYN, NY	07/19/19 00:00	07/19/19
L1932112-38	DUP01_07192019	SOIL	BROOKLYN, NY	07/19/19 00:00	07/19/19
L1932112-39	FB01_20190719	WATER	BROOKLYN, NY	07/19/19 13:12	07/19/19
L1932112-40	FB02_20190719	WATER	BROOKLYN, NY	07/19/19 09:37	07/19/19



Serial No:08081914:10

Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112
Project Number: 170384501 Report Date: 08/08/19

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.	



Serial_No:08081914:10

Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112
Project Number: 170384501 Report Date: 08/08/19

Case Narrative (continued)

Report Submission

August 08, 2019: This final report includes the results of all requested analyses.

August 02, 2019: This preliminary report includes the results of the Total Lead and TCLP Lead analysis performed on L1932112-16, -19, -27 and -35.

July 26, 2019: This is a preliminary report.

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

Sample Receipt

The analyses performed were specified by the client.

Total Metals

The WG1264087-3 MS recovery for lead (0%), performed on L1932112-03, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1264087-4 Laboratory Duplicate RPD for lead (49%), performed on L1932112-03, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

TCLP Metals

The WG1267344-3 MS recovery for lead (69%), performed on L1932112-16, does not apply because the sample concentration is greater than four times the spike amount added.

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

Willell M. Univer Michelle M. Morris

Authorized Signature:

Title: Technical Director/Representative

Date: 08/08/19



METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number: Report Date:** 08/08/19

170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1932112-03 07/19/19 10:02 Client ID: SB-107A_A3_7-12 Date Received: 07/19/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil 86% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor** Prepared **Parameter** Result Qualifier Units RL MDL Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab 1,6010D Lead, TCLP 0.580 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:15 EPA 3015 LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501 08/08/19

SAMPLE RESULTS

Report Date:

Field Prep:

Lab ID: L1932112-03

Client ID: SB-107A_A3_7-12 Sample Location: BROOKLYN, NY

Date Collected: Date Received: 07/19/19 10:02 07/19/19

Not Specified

Sample Depth:

Matrix:

Soil

86% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Prepared **Parameter** Result Qualifier Units RL MDL Analyzed Method **Analyst**

Total Metals - Mansfield Lab 208 Lead, Total mg/kg 2.30 0.123 1 07/25/19 02:00 07/25/19 19:59 EPA 3050B 1,6010D AΒ



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-08
 Date Collected:
 07/19/19 12:12

 Client ID:
 SB-107A_A3_E1_7-12
 Date Received:
 07/19/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil Percent Solids: 93%

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP ND mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:20 EPA 3015 1,6010D LC



07/19/19 12:12

Date Collected:

 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-08

Client ID: SB-107A_A3_E1_7-12 Date Received: 07/19/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 93%

Dilution Date Date Prep Analytical

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 15.2 mg/kg 2.11 0.113 1 07/25/19 02:00 07/25/19 20:25 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Date Collected:

08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1932112-13

Client ID: SB-107A_A3_W1_7-12 Date Received: BROOKLYN, NY Sample Location: Field Prep:

07/19/19 12:47 07/19/19 Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil 91% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.64 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:24 EPA 3015 1,6010D LC



07/19/19 12:47

Date Collected:

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-13

Client ID: SB-107A_A3_W1_7-12 Date Received: 07/19/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 91% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Analyst Total Metals - Mansfield Lab 316 Lead, Total mg/kg 2.14 0.115 1 07/25/19 02:00 07/25/19 21:00 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1932112-16 Client ID: SB-107A_A1_3 BROOKLYN, NY Sample Location:

Date Collected:

07/19/19 08:48

AΒ

Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/31/19 01:02

Matrix:

Soil

88% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP 70.3 mg/l 0.500 0.027 1 08/01/19 14:59 08/02/19 03:36 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: Date Collected: 07/19/19 08:48 L1932112-16 Client ID: SB-107A_A1_3 Date Received: 07/19/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** Result Qualifier Units Prepared Analyzed Method

Parameter RL MDL **Analyst** Total Metals - Mansfield Lab 3160 Lead, Total mg/kg 2.17 0.116 1 07/30/19 20:15 07/31/19 17:55 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number: Report Date:** 08/08/19

170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1932112-17 07/19/19 08:49 Client ID: SB-107A_A1_5 Date Received: 07/19/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil 90% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 21.9 mg/l 0.500 0.027 1 07/25/19 16:27 07/26/19 01:16 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501 08/08/19

SAMPLE RESULTS

Report Date:

Lab ID: L1932112-17

Date Collected:

07/19/19 08:49

Client ID: SB-107A_A1_5 Sample Location: BROOKLYN, NY Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

90% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 1460 Lead, Total mg/kg 2.20 0.118 1 07/25/19 02:00 07/25/19 21:05 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Client ID: L1932112-18

Date Collected: Date Received: 07/19/19 08:50

Sample Location:

SB-107A_A1_12 BROOKLYN, NY

Field Prep:

07/19/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Soil

86% Percent Solids:

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst	Percent Solids:	00 /6					Dilution	Date	Date	Prep	Analytical	
	Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by EP	A 1311 - Mansfield L	.ab							
Lead, TCLP	25.4	mg/l	0.500	0.027	1	07/25/19 16:27 07/26/19 01:34	EPA 3015	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 Report Date:

SAMPLE RESULTS

L1932112-18

Date Collected:

07/19/19 08:50

Client ID: SB-107A_A1_12 Sample Location: BROOKLYN, NY Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

Percent Solids: 86%

Percent Solids:	00%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	5810		mg/kg	22.8	1.22	10	07/25/19 02:0	0 07/25/19 22:58	EPA 3050B	1,6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Report Date:

Project Number: 170384501

SAMPLE RESULTS

Lab ID: Client ID:

L1932112-19 SB-107A_A1_13 Date Collected: Date Received: 07/19/19 08:51 07/19/19

Sample Location: BROOKLYN, NY Field Prep:

Not Specified

AΒ

Sample Depth:

TCLP/SPLP Ext. Date: 07/31/19 01:02

Matrix:

Soil

95% Percent Solids:

Date Prep Dilution Date **Analytical**

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP ND mg/l 0.500 0.027 1 08/01/19 14:59 08/02/19 02:53 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

L1932112-19

Date Collected:

07/19/19 08:51

Client ID: SB-107A_A1_13 BROOKLYN, NY Sample Location:

Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

95% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Wethod	wethod	Analyst
Total Metals - N	/lansfield Lab										
Lead, Total	9.54		mg/kg	2.10	0.113	1	07/30/19 20:1	5 07/31/19 18:00	EPA 3050B	1,6010D	АВ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-22

Date Collected: 07/19/19 11:37 Client ID: SB-107A_A1_E1_7-12 Date Received: 07/19/19 BROOKLYN, NY Sample Location: Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil 93% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.092 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:28 EPA 3015 1,6010D LC



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-22
 Date Collected:
 07/19/19 11:37

 Client ID:
 SB-107A_A1_E1_7-12
 Date Received:
 07/19/19

Client ID: SB-107A_A1_E1_7-12 Date Received: 07/19/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 93%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηραίνει

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 110 mg/kg 2.09 0.112 1 07/25/19 02:00 07/25/19 21:20 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Report Date:** 08/08/19

Project Number: 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L1932112-27 07/19/19 09:28 Client ID: SB-107A_A2_3 Date Received: 07/19/19 BROOKLYN, NY Sample Location: Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/31/19 01:02

Matrix: Soil 91% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 3.11 mg/l 0.500 0.027 1 08/01/19 14:59 08/02/19 03:27 EPA 3015 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Project Number: 170384501 **Report Date:**

08/08/19

SAMPLE RESULTS

L1932112-27

Date Collected:

07/19/19 09:28

Client ID: SB-107A_A2_3 Sample Location: BROOKLYN, NY Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

91% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 1100 Lead, Total mg/kg 2.10 0.113 1 07/30/19 20:15 07/31/19 18:04 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number: Report Date:**

170384501

08/08/19

SAMPLE RESULTS

L1932112-28 SB-107A_A2_5 BROOKLYN, NY Date Collected:

07/19/19 09:29

Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

Sample Location:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Lab ID:

Client ID:

Soil

Percent Solids:

83%

. Greent Conde						Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by EPA 1311 - Mansfield Lab 1,6010D Lead, TCLP 9.24 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:33 EPA 3015 LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Project Number: 170384501 **Report Date:**

08/08/19

SAMPLE RESULTS Lab ID:

L1932112-28 SB-107A_A2_5 Date Collected: Date Received: 07/19/19 09:29

Client ID: Sample Location: BROOKLYN, NY

07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

83% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 1990 Lead, Total mg/kg 2.32 0.124 1 07/25/19 02:00 07/25/19 21:25 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

07/19/19 09:30

Client ID: Sample Location: L1932112-29 SB-107A_A2_12 BROOKLYN, NY

Date Collected: Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Lab ID:

Soil

Percent Solids:	96%

reident Solids.	3070					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by EPA	A 1311 - Mansfield L	.ab							
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/25/19 12:56 07/25/19 19:37	EPA 3015	1,6010D	LC



1,6010D

AΒ

 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

mg/kg

1.96

Lab ID:L1932112-29Date Collected:07/19/19 09:30Client ID:SB-107A_A2_12Date Received:07/19/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Lead, Total

Matrix: Soil Percent Solids: 96%

8.02

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab

1

07/25/19 02:00 07/25/19 21:30 EPA 3050B

0.105



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501

Report Date:

SAMPLE RESULTS

08/08/19

Lab ID: L1932112-32 Client ID: SB-107A_B1_5 BROOKLYN, NY Sample Location:

Date Collected: Date Received: 07/19/19 10:43 07/19/19

Field Prep:

Not Specified

LC

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Soil

88% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP 4.10 mg/l 0.500 0.027 1 07/25/19 16:27 07/26/19 02:06 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: Date Collected: 07/19/19 10:43 L1932112-32 Client ID: SB-107A_B1_5 Date Received: 07/19/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Analyst Total Metals - Mansfield Lab 892 Lead, Total mg/kg 2.18 0.117 1 07/25/19 02:00 07/25/19 21:35 EPA 3050B 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

170384501

Report Date:

Date Collected:

Project Number:

SAMPLE RESULTS

07/19/19 10:44

Lab ID: L1932112-33 Client ID: SB-107A_B1_12 Sample Location: BROOKLYN, NY

Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix: Soil 94% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.029 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:42 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Project Number: 170384501 **Report Date:**

08/08/19

SAMPLE RESULTS

L1932112-33

Date Collected:

07/19/19 10:44

Client ID: SB-107A_B1_12 Sample Location: BROOKLYN, NY Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

94% Percent Solids:

Percent Solias:	94 /0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	15.7		ma/ka	2.02	0.108	1	07/25/19 02:0	0 07/25/19 22:38	FPA 3050B	1.6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

170384501

Report Date:

Project Number:

SAMPLE RESULTS

Date Collected: L1932112-35

07/19/19 08:00

Client ID: SB-107A_3 Sample Location: BROOKLYN, NY Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/31/19 01:02

Matrix:

Lab ID:

Soil

78% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.724 mg/l 0.500 0.027 1 08/01/19 14:59 08/02/19 03:50 EPA 3015 1,6010D AΒ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

L1932112-35

Date Collected:

07/19/19 08:00

Client ID: SB-107A_3 Sample Location: BROOKLYN, NY Date Received: 07/19/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

Percent Solids: 78%

Percent Solids:	1070					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	152		mg/kg	2.51	0.134	1	07/30/19 20:1	5 07/31/19 18:09	EPA 3050B	1,6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 08/08/19

Report Date:

Project Number: 170384501

SAMPLE RESULTS

07/19/19 08:01

Lab ID: L1932112-36 Client ID: SB-107A_5 BROOKLYN, NY Sample Location:

Date Collected: Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Soil

Percent Solids:

86%

i cicciii dollas.	00,0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by	EPA 1311 - Mai	nsfield Lab						
Lead, TCLP	11.7	mg/l	0.500	0.027	1	07/25/19 16:27 07/26/19 02:11 EPA 30	1,6010D	LC



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

Lab ID:L1932112-36Date Collected:07/19/19 08:01Client ID:SB-107A_5Date Received:07/19/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 86%

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 866 mg/kg 2.20 0.118 1 07/25/19 02:00 07/25/19 22:43 EPA 3050B 1,6010D AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** 08/08/19

SAMPLE RESULTS

170384501

Report Date:

Lab ID: Client ID: L1932112-38

Date Collected: Date Received: 07/19/19 00:00

Sample Location:

DUP01_07192019 BROOKLYN, NY

Field Prep:

07/19/19 Not Specified

LC

Sample Depth:

TCLP/SPLP Ext. Date: 07/22/19 16:22

Matrix:

Soil

Percent Solids:

90%

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP 0.649 mg/l 0.500 0.027 1 07/25/19 12:56 07/25/19 19:54 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112

Project Number: Report Date: 170384501 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-38

Client ID: DUP01_07192019 Sample Location: BROOKLYN, NY

Date Collected: 07/19/19 00:00 Date Received: 07/19/19

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

an%

Percent Solids:	90%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	250		mg/kg	2.20	0.118	1	07/25/19 02:0	0 07/25/19 22:48	B EPA 3050B	1,6010D	AB



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932112 **Project Number:** Report Date:

170384501

08/08/19

SAMPLE RESULTS

Date Collected:

07/19/19 13:12

Client ID: Sample Location:

Lab ID:

L1932112-39 FB01_20190719 BROOKLYN, NY

Date Received: Field Prep:

07/19/19 Not Specified

Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	field Lab										
Lead, Total	ND		mg/l	0.010	0.003	1	07/23/19 12:00	0 07/24/19 00:30	EPA 3005A	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932112

Report Date:

08/08/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	39 Batch	: WG12	263285-	1				
Lead, Total	ND	mg/l	0.010	0.003	1	07/23/19 12:00	07/23/19 22:30	1,6010D	AB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfi	eld Lab for sample(s):	03,08,13,	17-18,22	2,28-29,3	32-33,36,38	Batch: WG1	1264087-1		
Lead, Total	ND	mg/kg	2.00	0.107	1	07/25/19 02:00	07/25/19 19:54	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 03,	08,13,22	2,28-29,33,	38 Batch: W	G1264336-1		
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 18:16	3 1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/22/19 16:22

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	A 1311 - Mansfield Lab	for sample	e(s): 17-	-18,32,36	Batch:	WG1264363-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/25/19 16:27	07/26/19 00:58	3 1,6010D	LC



L1932112

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/08/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/22/19 16:22

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	16,19,27,3	35 Bato	h: WG	1266469-1				
Lead, Total	ND	mg/kg	2.00	0.107	1	07/30/19 20:15	07/31/19 13:48	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 16,	35 Bate	ch: WG126	37344-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	08/01/19 14:59	08/02/19 03:07	1,6010D	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/29/19 19:18

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Mansfield Lab	or sample	e(s): 19,2	27 Bato	h: WG126	7405-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	08/01/19 14:59	08/02/19 02:10	1,6010D	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/31/19 01:02



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932112 08/08/19

Report Date:

Parameter	LCS %Recovery	LCSD Qual %Recovery	%Recov Qual Limit	•	Qual RPD Limits
Total Metals - Mansfield Lab Associated sample	(s): 39 Batch: \	WG1263285-2			
Lead, Total	109	-	80-120	-	
Total Metals - Mansfield Lab Associated sample	(s): 03,08,13,17-	18,22,28-29,32-33,36,38	Batch: WG1264087-2	SRM Lot Number	: D105-540
Lead, Total	94	-	71-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Asso	ociated sample(s): 03,08,13,22,28-29,33,3	8 Batch: WG1264336-2		
Lead, TCLP	96	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Asso	ociated sample(s): 17-18,32,36 Batch: W	/G1264363-2		
Lead, TCLP	105	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample	(s): 16,19,27,35	Batch: WG1266469-2	SRM Lot Number: D105	-540	
Lead, Total	83	-	71-128	-	
TCLP Metals by EPA 1311 - Mansfield Lab Asso	ociated sample(s): 16,35 Batch: WG126	7344-2		
Lead, TCLP	98	-	75-125		20
TCLP Metals by EPA 1311 - Mansfield Lab Asso	ociated sample(s): 19.27 Batch: WG126	7405-2		
Lead, TCLP	96	-	75-125		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932112

Report Date:

08/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD		RPD imits
Total Metals - Mansfield Lab	Associated samp	ole(s): 39	QC Batch II	D: WG126328	35-3 Q	C Sample:	L1931339-09	Clien	t ID: MS Sa	ample		
Lead, Total	ND	0.51	0.549	108		-	-		75-125	-		20
Total Metals - Mansfield Lab ID: SB-107A_A3_7-12	Associated samp	ole(s): 03,0	08,13,17-18,2	22,28-29,32-3	3,36,38	QC Batch	n ID: WG12640)87-3	QC Sampl	e: L193	32112-03	Client
Lead, Total	208	47.2	172	0	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - ID: MS Sample	Mansfield Lab As	sociated	sample(s): 03	3,08,13,22,28-	-29,33,3	8 QC Bat	ch ID: WG126	4336-3	QC Sam	ple: L1	932019-0	2 Client
Lead, TCLP	ND	5.1	5.15	101		-	-		75-125	-		20
TCLP Metals by EPA 1311 - 107A_A1_5	Mansfield Lab As	sociated	sample(s): 17	7-18,32,36 C	QC Batch	n ID: WG12	264363-3 QC	Samp	le: L193211	2-17	Client ID	SB-
Lead, TCLP	21.9	5.1	27.0	100		-	-		75-125	-		20
Total Metals - Mansfield Lab	Associated samp	ole(s): 16,	19,27,35 Q	C Batch ID: W	/G12664	69-3 QC	Sample: L193	33356-0	01 Client II	D: MS	Sample	
Lead, Total	408	48.6	382	0	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - 107A_A1_3	Mansfield Lab As	sociated	sample(s): 16	3,35 QC Bat	ch ID: W	/G1267344	-3 QC Samp	ole: L19	32112-16	Client	ID: SB-	
Lead, TCLP	70.3	5.1	73.8	69	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - 107A_A1_13	Mansfield Lab As	sociated	sample(s): 19),27 QC Bat	ch ID: W	/G1267405	i-3 QC Samp	ole: L19	32112-19	Client	ID: SB-	
Lead, TCLP	ND	5.1	5.03	99		-	-		75-125	-		20



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932112

Report Date:

08/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG126	3285-4 QC Sample: L1	931339-09 Clie	ent ID: D	UP Sample
Lead, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(ID: SB-107A_A3_7-12	s): 03,08,13,17-18,22,28-29,32	2-33,36,38 QC Batch ID	: WG1264087-	4 QC S	ample: L1932112-03 Client
Lead, Total	208	126	mg/kg	49	Q 20
TCLP Metals by EPA 1311 - Mansfield Lab Asso ID: DUP Sample	ciated sample(s): 03,08,13,22,	28-29,33,38 QC Batch	D: WG126433	6-4 QC	Sample: L1932019-02 Clien
Lead, TCLP	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Asso 107A_A1_5	ciated sample(s): 17-18,32,36	QC Batch ID: WG1264	363-4 QC Sa	mple: L19	932112-17 Client ID: SB-
Lead, TCLP	21.9	21.6	mg/l	1	20
Total Metals - Mansfield Lab Associated sample(s): 16,19,27,35 QC Batch ID:	WG1266469-4 QC Sa	ample: L193335	56-01 Clie	ent ID: DUP Sample
Lead, Total	408	247	mg/kg	49	Q 20
TCLP Metals by EPA 1311 - Mansfield Lab Asso 107A_A1_3	ciated sample(s): 16,35 QC E	Batch ID: WG1267344-4	QC Sample:	L1932112	2-16 Client ID: SB-
Lead, TCLP	70.3	71.2	mg/l	1	20
TCLP Metals by EPA 1311 - Mansfield Lab Asso 107A_A1_13	ciated sample(s): 19,27 QC E	Batch ID: WG1267405-4	QC Sample:	L1932112	2-19 Client ID: SB-
Lead, TCLP	ND	ND	mg/l	NC	20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-03
 Date Collected:
 07/19/19 10:02

 Client ID:
 SB-107A_A3_7-12
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	85.6		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-08 Date Collected: 07/19/19 12:12

Client ID: SB-107A_A3_E1_7-12 Date Received: 07/19/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total	92.6		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-13 Date Collected: 07/19/19 12:47

Client ID: SB-107A_A3_W1_7-12 Date Received: 07/19/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.7		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-16
 Date Collected:
 07/19/19 08:48

 Client ID:
 SB-107A_A1_3
 Date Received:
 07/19/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	87.5		%	0.100	NA	1	-	07/31/19 03:22	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-17
 Date Collected:
 07/19/19 08:49

 Client ID:
 SB-107A_A1_5
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	89.5		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-18
 Date Collected:
 07/19/19 08:50

 Client ID:
 SB-107A_A1_12
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	85.8		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-19
 Date Collected:
 07/19/19 08:51

 Client ID:
 SB-107A_A1_13
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	94.5		%	0.100	NA	1	-	07/31/19 03:22	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-22 Date Collected: 07/19/19 11:37

Client ID: SB-107A_A1_E1_7-12 Date Received: 07/19/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	92.6		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID:L1932112-27Date Collected:07/19/19 09:28Client ID:SB-107A_A2_3Date Received:07/19/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	91.3		%	0.100	NA	1	-	07/31/19 03:22	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID:L1932112-28Date Collected:07/19/19 09:29Client ID:SB-107A_A2_5Date Received:07/19/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	82.6		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-29
 Date Collected:
 07/19/19 09:30

 Client ID:
 SB-107A_A2_12
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	95.7		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-32
 Date Collected:
 07/19/19 10:43

 Client ID:
 SB-107A_B1_5
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	88.2		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-33
 Date Collected:
 07/19/19 10:44

 Client ID:
 SB-107A_B1_12
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - '	Westborough Lab)								
Solids, Total	93.8		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-35
 Date Collected:
 07/19/19 08:00

 Client ID:
 SB-107A_3
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	· Westborough Lab									
Solids, Total	77.9		%	0.100	NA	1	-	07/31/19 03:22	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID:L1932112-36Date Collected:07/19/19 08:01Client ID:SB-107A_5Date Received:07/19/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	86.2		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932112

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932112-38
 Date Collected:
 07/19/19 00:00

 Client ID:
 DUP01_07192019
 Date Received:
 07/19/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab)								
Solids, Total	90.0		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



L1932112

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

lity Control Lab Number:

Report Date: 08/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Associated samp 01 Client ID: DUP Sample	ole(s): 03,08,13,17-	18,22,28-29,32-33,36,38	QC Batch ID:	WG1262479-1	QC Sample: L1932081-
Solids, Total	95.0	94.9	%	0	20
General Chemistry - Westborough Lab Associated samp	ole(s): 16,19,27,35	QC Batch ID: WG126656	67-1 QC San	nple: L1933291	-05 Client ID: DUP Sample
Solids, Total	80.3	78.8	%	2	20



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1932112 **Report Date:** 08/08/19

Sample Receipt and Container Information

YES Were project specific reporting limits specified?

Cooler Information

Custody Seal Cooler

Α Absent В Absent

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932112-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-01B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-02A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-02B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-03B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-03X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-04A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-04B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-05B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-06A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-06B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-07A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-07B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-08A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-08B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-08X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-08X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-09A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-09B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)



Lab Number: L1932112

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Container Info	Container Information			Final	Temp			Frozen	
Container ID	Container Type	Cooler	Initial pH	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932112-10A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-10B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-11A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-11B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-12A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-12B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-13A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-13B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-13X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-13X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-14A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-14B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-15A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-15B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-16A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-16B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-16X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-16X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-17A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-17B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-17X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-17X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-18A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-18B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-18X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-18X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-19A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-19B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)



Lab Number: L1932112

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932112-19X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-19X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-20A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-20B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-21A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-21B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-22A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-22B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-22X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-22X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-23A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-23B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-24A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-24B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-25A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-25B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-26A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-26B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-27A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-27B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-27X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-27X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-28A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-28B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-28X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-28X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-29A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-29B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)



Lab Number: L1932112

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН		Pres	Seal	Date/Time	Analysis(*)
L1932112-29X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-29X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-30A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-30B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-31A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-31B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-32A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		PB-TI(180)
L1932112-32B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		TS(7)
L1932112-32X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.6	Υ	Absent		PB-CI(180)
L1932112-32X9	Tumble Vessel	Α	NA		2.6	Υ	Absent		-
L1932112-33A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-33B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-33X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-33X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-34A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932112-34B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-35A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-35B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-35X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-35X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-36A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-36B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)
L1932112-36X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-36X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-37A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-METAL(180)
L1932112-37B	Glass 120ml/4oz unpreserved	Α	NA		2.6	Υ	Absent		HOLD-CONTINGENCY(14)
L1932112-38A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.9	Υ	Absent		PB-TI(180)
L1932112-38B	Glass 120ml/4oz unpreserved	В	NA		3.9	Υ	Absent		TS(7)



Lab Number: L1932112

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Container Info		Initial	Final	Temp			Frozen		
Container ID Container Type		Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932112-38X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.9	Υ	Absent		PB-CI(180)
L1932112-38X9	Tumble Vessel	В	NA		3.9	Υ	Absent		-
L1932112-39A	Plastic 250ml HNO3 preserved	В	<2	<2	3.9	Υ	Absent		PB-TI(180)
L1932112-40A	Plastic 250ml HNO3 preserved	Α	<2	<2	2.6	Υ	Absent		HOLD-CONTINGENCY(7),HOLD-METAL- TOTAL(180)



Project Name:805-825 ATLANTIC AVENUELab Number:L1932112Project Number:170384501Report Date:08/08/19

GLOSSARY

Acronyms

EDL

LOQ

MS

RPD

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.)

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.)

 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.

- 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.

- 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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

 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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- The lower value for the two columns has been reported due to obvious interference.
- 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.)
- \boldsymbol{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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932112

 Project Number:
 170384501
 Report Date:
 08/08/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 13

Published Date: 7/30/2019 3:17:52 PM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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	CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-9308 In Engineering 7 31st Street, 8th Floor 201 95400 95499 Il@langan.com we been previously analyzerific requirements/commanagement@langan.com etals or TAL. S8 107A A1-E2 3 S8 107A A1-E2 3 S8 107A A1-E2 13 S8 107A A1-W1 3 Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore	Albany, NY 12205: 14 Walker Tonawanda, NY 14150: 275 Cl Mansfield, Ma 20248 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-9300 FAX: 508-822-9308 Project Information Project Name: Project Manager: Vise Project Manager: ALPHAQuote #: Turn-Around Time Standam Rush (only if pre approved) Vise Project Manager: ALPHAQuote #: Turn-Around Time Standam Rush (only if pre approved) Vise Project Manager: ALPHAQuote #: Turn-Around Time Standam Rush (only if pre approved) Vise Project Name: P	Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite Tonawanda, NY 14150: 275 Cooper Ave,	CHAIN OF CUSTODY	Albany, NY 12905: 14 Walker Way CUSTODY	Albany, NY 12285: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 Mansfleid, MA 02048 320 Forbes Blvd TEL: 508-822-3208 FAX: 508-822-3208 FOOCI Location: Brooklyn, NY Froject Information Froject Name: 805-825 Atlantic Avenue Froject Location: Brooklyn, NY Froject Hame: Norklyn, NY Froject Ramager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project # 170384501 (Use Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project # 170384501 Due Date: Rush (only if pre approved) # of Days: We been previously analyzed by Alpha Collection Sample Matrix Initials Albany Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Project Manager: Mana	CUSTODY Albany, NY 12285; 14 Walker Way Of Collection Collec	CTRIN OF CUSTODY Albany, NY 12208: 14 Walker Way To Collection Tell. 908-822-8009 T	Albany, NY 1208: 14 Walker Way	CUSTODY Albary, NY 1298-14 Walker Way State 105 In Lab	Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of In Lab Albany, NY 1205: 14 Waiker Way Of Albany, NY 120	Albany, NY 12026 : 14 Walker Way Of	20 20 20 20 20 20 20 20

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TEL: 508-898-922		Project Name:	805-825 Atl	antic Avenue				verable ASP-			ASP	-B	Same as Client Info	
FAX: 508-898-919	3 FAX: 508-822-3288	Project Location:	Brooklyn, N				10		S (1 File	17		IS (4 File)	PO#	
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			7/19/2019	9:28	Soil	TM	Х	Х					Hold All	
-29 - 8	SB-107A_A2_5		7/19/2019	9.69	Soil	TM	Х	X						
-30 -1	SB-107A_A2_12		7/19/2019	9:30	Soil	TM	Х	Х						Г
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reservative Code:	SB-107A_B1_3 Container Code		7/19/2019	10:47	Soil	TM	Х	X					Hold All	
= None	P = Plastic	Westboro: Certification	No: MA935		Cou	ntainer Type	П	Т						
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= Other			P.S.		723.30		2 4				11/7	1923-3		
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Westborough, MA 015 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	320 Forbes Blvd TEL: 508-822-9300	Service Centers Mahwah, NJ 07430: 35 White Albany, NY 12205: 14 Walke Tonawanda, NY 14150: 275 Project Information Project Name: Project Location:	er Way Cooper Ave, Suite 16	antic Avenue	Page			in lerable		□ AS	P-B	ALPHA Job # L 1932112 Billing Information Same as Client Info	
Client Information		Project #	170384501								(010 (11 110)		
MANUAL PLANSAGE RESOURCE	Engineering	(Use Project name as							Requireme	nt	TO OUT ON	Disposal Site Information	
	31st Street, 8th Floor	Project Manager:		Col / Colin A	Anderson				CHRIST		Part 375	Please identify below location of	
New York, NY 1000	11	ALPHAQuote #:							Standards	☐ NY	CP-51	applicable disposal facilities.	
Phone: 212479	5400	Turn-Around Time	Maria William	de Vonta	In Sen	D. Harris		NY Re	estricted Use	☑ Ott	ner	Disposal Facility:	
Fax: 212479	5499	Standa	ard 🗹	Due Date				NY Ur	restricted Us	8		D NJ D NY	
Email: kdelcol(@langan.com	Rush (only if pre approve	ed) 🗌	# of Days				NYC S	Sewer Discha	rge		Other:	
These samples hav	e been previously analyz	ed by Alpha					ANA	LYSIS	N.			Sample Filtration 0	
	ific requirements/comm nagement@langan.com als or TAL,	nents:					Total Lead	TCLP Lead				☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)	
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(Lab Use Only)	58	ample ID	Date	Time	Matrix	Initials						Sample Specific Comments	
32112-2	2 SB-107A_B1_5		7/19/2019	10143	Soil	TM	х	х				HENDERN DUN ALL	
-33	SB-107A_B1_12		7/19/2019	10.44	Soil	TM	×	х					
- 3	SB-107A_B1_13	1	7/19/2019	13:45	Soil	TM	x	х				Hold All	
- 3	SB-107A_3		7/19/2019	8:00	Soil	TM	х	х				Hold All	
- 30	SB-107A_5		7/19/2019	8:01	Soil	TM	х	х					
- 3	The state of the s	191701916	7/19/19		SOIL	TM	x	X				HOLD ALC	
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									65				
Preservative Code: A = None B = HCI C = HNO ₃ D = H ₂ SO ₄ E = NaOH	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification Mansfield: Certification	Company of the Compan			tainer Type Preservative						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will no	
E = NaOH F = MeOH $G = NaHSO_4$ $H = Na_2S_2O_3$ G/E = Zn Ac/NaOH O = Other Form No: 01-25 (rev. 30	C = Cube O = Other E = Encore D = BOD Bottle	Relinquishe Topus Man	1	7/17/19	1837	14:47 Rome		Tec	Kson At		ate/Time 1445 9 (9.34 1723/30	start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES	



ANALYTICAL REPORT

Lab Number: L1932369

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Del Col Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 08/08/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1932369 **Report Date:** 08/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932369-01	SB-107A_A3-W2_3	SOIL	BROOKLYN, NY	07/22/19 07:33	07/22/19
L1932369-02	SB-107A_A3-W2_5	SOIL	BROOKLYN, NY	07/22/19 07:34	07/22/19
L1932369-03	SB-107A_A3-W2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:35	07/22/19
L1932369-04	SB-107A_A3-W2_12	SOIL	BROOKLYN, NY	07/22/19 07:36	07/22/19
L1932369-05	SB-107A_A3-W2_13	SOIL	BROOKLYN, NY	07/22/19 07:37	07/22/19
L1932369-06	SB-107A_A4_3	SOIL	BROOKLYN, NY	07/22/19 07:28	07/22/19
L1932369-07	SB-107A_A4_5	SOIL	BROOKLYN, NY	07/22/19 07:29	07/22/19
L1932369-08	SB-107A_A4_7-12	SOIL	BROOKLYN, NY	07/22/19 07:30	07/22/19
L1932369-09	SB-107A_A4_12	SOIL	BROOKLYN, NY	07/22/19 07:31	07/22/19
L1932369-10	SB-107A_A4_13	SOIL	BROOKLYN, NY	07/22/19 07:32	07/22/19
L1932369-11	SB-107A_A4E1_3	SOIL	BROOKLYN, NY	07/22/19 07:15	07/22/19
L1932369-12	SB-107A_A4E1_5	SOIL	BROOKLYN, NY	07/22/19 07:16	07/22/19
L1932369-13	SB-107A_A4E1_7-12	SOIL	BROOKLYN, NY	07/22/19 07:17	07/22/19
L1932369-14	SB-107A_A4E1_12	SOIL	BROOKLYN, NY	07/22/19 07:18	07/22/19
L1932369-15	SB-107A_A4E1_13	SOIL	BROOKLYN, NY	07/22/19 07:19	07/22/19
L1932369-16	SB-107A_A4E2_3	SOIL	BROOKLYN, NY	07/22/19 07:20	07/22/19
L1932369-17	SB-107A_A4E2_5	SOIL	BROOKLYN, NY	07/22/19 07:21	07/22/19
L1932369-18	SB-107A_A4E2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:22	07/22/19
L1932369-19	SB-107A_A4E2_12	SOIL	BROOKLYN, NY	07/22/19 07:23	07/22/19
L1932369-20	SB-107A_A4E2_13	SOIL	BROOKLYN, NY	07/22/19 07:24	07/22/19
L1932369-21	SB-107A_A4W1_3	SOIL	BROOKLYN, NY	07/22/19 07:10	07/22/19
L1932369-22	SB-107A_A4W1_5	SOIL	BROOKLYN, NY	07/22/19 07:11	07/22/19
L1932369-23	SB-107A_A4W1_7-12	SOIL	BROOKLYN, NY	07/22/19 07:12	07/22/19
Pagg2385324	SB-107A_A4W1_12	SOIL	BROOKLYN, NY	07/22/19 07:13	07/22/19



Alpha			Sample	Serial_No Collection	o:08081914:12
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date
L1932369-25	SB-107A_A4W1_13	SOIL	BROOKLYN, NY	07/22/19 07:14	07/22/19
L1932369-26	SB-107A_A4W2_3	SOIL	BROOKLYN, NY	07/22/19 07:38	07/22/19
L1932369-27	SB-107A_A4W2_5	SOIL	BROOKLYN, NY	07/22/19 07:39	07/22/19
L1932369-28	SB-107A_A4W2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:40	07/22/19
L1932369-29	SB-107A_A4W2_12	SOIL	BROOKLYN, NY	07/22/19 07:41	07/22/19
L1932369-30	SB-107A_A4W2_13	SOIL	BROOKLYN, NY	07/22/19 07:42	07/22/19
L1932369-31	SB-107A_A3-E2_3	SOIL	BROOKLYN, NY	07/22/19 07:00	07/22/19
L1932369-32	SB-107A_A3-E2_5	SOIL	BROOKLYN, NY	07/22/19 07:01	07/22/19
L1932369-33	SB-107A_A3-E2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:02	07/22/19
L1932369-34	SB-107A_A3-E2_12	SOIL	BROOKLYN, NY	07/22/19 07:03	07/22/19
L1932369-35	SB-107A_A3-E2_13	SOIL	BROOKLYN, NY	07/22/19 07:04	07/22/19
L1932369-36	SB-107A_A1-E2_3	SOIL	BROOKLYN, NY	07/22/19 07:05	07/22/19
L1932369-37	SB-107A_A1-E2_5	SOIL	BROOKLYN, NY	07/22/19 07:06	07/22/19
L1932369-38	SB-107A_A1-E2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:07	07/22/19
L1932369-39	SB-107A_A1-E2_12	SOIL	BROOKLYN, NY	07/22/19 07:08	07/22/19
L1932369-40	SB-107A_A1-E2_13	SOIL	BROOKLYN, NY	07/22/19 07:09	07/22/19
L1932369-41	SB-107A_A1-W1_7-12	SOIL	BROOKLYN, NY	07/22/19 07:25	07/22/19
L1932369-42	SB-107A_A1-W1_12	SOIL	BROOKLYN, NY	07/22/19 07:26	07/22/19
L1932369-43	SB-107A_A1-W1_13	SOIL	BROOKLYN, NY	07/22/19 07:27	07/22/19
L1932369-44	SB-107A_A1-W2_3	SOIL	BROOKLYN, NY	07/22/19 07:43	07/22/19
L1932369-45	SB-107A_A1-W2_5	SOIL	BROOKLYN, NY	07/22/19 07:44	07/22/19
L1932369-46	SB-107A_A1-W2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:45	07/22/19
L1932369-47	SB-107A_A1-W2_12	SOIL	BROOKLYN, NY	07/22/19 07:46	07/22/19
L1932369-48	SB-107A_A1-W2_13	SOIL	BROOKLYN, NY	07/22/19 07:47	07/22/19
L1932369-49	DUP03_20190722	SOIL	BROOKLYN, NY	07/22/19 00:00	07/22/19
L1932369-50	FB03_20190722	WATER	BROOKLYN, NY	07/22/19 07:48	07/22/19
L1932369-51 Page 3 of 32	DRUM01_20190722	SOIL	BROOKLYN, NY	07/22/19 07:49	07/22/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932369

Project Number: 170384501 **Report Date:** 08/08/19

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932369

Project Number: 170384501 **Report Date:** 08/08/19

Case Narrative (continued)

Report Submission

August 08, 2019: This final report includes the results of all requested analyses.

July 29, 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.

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:

Title: Technical Director/Representative Date: 08/08/19

Melissa Sturgis Melissa Sturgis

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932369 08/08/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

L1932369-41

Lab ID: Date Collected: 07/22/19 07:25 Client ID: SB-107A_A1-W1_7-12 Date Received: 07/22/19 BROOKLYN, NY Sample Location: Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/23/19 16:11

Matrix: Soil 90% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.072 mg/l 0.500 0.027 1 07/26/19 11:57 07/27/19 02:38 EPA 3015 1,6010D LC



07/22/19 07:25

Date Collected:

 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932369

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-41

Client ID: SB-107A_A1-W1_7-12 Date Received: 07/22/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 36.8 Lead, Total mg/kg 2.18 0.117 1 07/25/19 20:00 07/26/19 22:29 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1932369 08/08/19

SAMPLE RESULTS

Report Date:

Project Number: 170384501

Lab ID: Client ID: Sample Location: L1932369-51

DRUM01_20190722 BROOKLYN, NY

Date Collected: Date Received: 07/22/19 07:49 07/22/19

Field Prep:

Not Specified

LC

Sample Depth:

TCLP/SPLP Ext. Date: 07/23/19 16:11

Matrix:

Soil

Percent Solids:

93%

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP 0.543 mg/l 0.500 0.027 1 07/26/19 11:57 07/27/19 02:43 EPA 3015 1,6010D



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932369

 Project Number:
 170384501
 Report Date:
 08/08/19

SAMPLE RESULTS

 Lab ID:
 L1932369-51
 Date Collected:
 07/22/19 07:49

 Client ID:
 DRUM01_20190722
 Date Received:
 07/22/19

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 93%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηραίνει

Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 351 Lead, Total mg/kg 2.11 0.113 1 07/25/19 20:00 07/26/19 22:34 EPA 3050B 1,6010D LC



L1932369

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 08/08/19

Lab Number:

Method Blank Analysis Batch Quality Control

Dilution Date Analytical **Date Result Qualifier Factor Prepared** Analyzed Method Analyst **Parameter** Units RL **MDL** Total Metals - Mansfield Lab for sample(s): 41,51 Batch: WG1264650-1 Lead, Total ND 2.00 0.107 07/26/19 20:12 LC mg/kg 1 07/25/19 20:00 1,6010D

Prep Information

Digestion Method: EPA 3050B

Dilution Analytical Date **Date Factor** Method Analyst **Result Qualifier** Units RLMDL **Prepared Analyzed Parameter** TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 41,51 Batch: WG1264972-1 Lead, TCLP 0.032 0.027 1,6010D LC mg/l 0.500 07/26/19 23:42 07/26/19 11:57

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/23/19 16:11



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Lab Number:

L1932369

Report Date:

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sample	e(s): 41,51 Bato	ch: WG12	64650-2 SRM L	ot Number:	D105-540				
Lead, Total	80		-		71-128	-			
TCLP Metals by EPA 1311 - Mansfield Lab Ass	sociated sample(s	s): 41,51	Batch: WG12649	72-2					
Lead, TCLP	98		-		75-125	-		20	



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932369

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	r RPD Qu	RPD al Limits
Total Metals - Mansfield Lab	Associated sam	ple(s): 41,51	QC Bat	tch ID: WG126	4650-3	QC Sam	ple: L1932382-0	01 Client ID: M	IS Sample	
Lead, Total	60.4	42.8	94.0	78		-	-	75-125	-	20
TCLP Metals by EPA 1311 - I	Mansfield Lab A	ssociated sa	mple(s): 4	11,51 QC Bat	ch ID: V	VG1264972	2-3 QC Samp	ole: L1932311-12	Client ID:	MS Sample
Lead, TCLP	0.321J	5.1	5.44	107		-	-	75-125	-	20



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932369

Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual F	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 41,5	1 QC Batch ID:	WG1264650-4 QC Sample	: L1932382-01	Client ID:	DUP Sample)
Lead, Total	60.4	43.6	mg/kg	32	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sa	ample(s): 41,51	QC Batch ID: WG1264972-4	QC Sample:	L1932311	1-12 Client ID	: DUP Sample
Lead, TCLP	0.321J	0.320J	mg/l	NC		20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932369

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-41 Date Collected: 07/22/19 07:25

Client ID: SB-107A_A1-W1_7-12 Date Received: 07/22/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	89.9		%	0.100	NA	1	-	07/23/19 15:34	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1932369

Project Number: 170384501 **Report Date:** 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-51 Date Collected: 07/22/19 07:49

Client ID: DRUM01_20190722 Date Received: 07/22/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result Quali	ier Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab								
Solids, Total	92.5	%	0.100	NA	1	-	07/23/19 15:34	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1932369

Report Date:

Parameter	Native Sam	ple D	Ouplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 41,51	QC Batch ID:	WG1263391-1	QC Sample:	L1932298-01	Client ID:	DUP Sample
Solids, Total	82.6		83.0	%	0		20



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent B Absent

Container Info	Container Information		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932369-01A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-01B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-02A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-02B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-03A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-03B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-04A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-04B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-05A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-05B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-06A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-06B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-07A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-07B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-08A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-08B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-09A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-09B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-10A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-10B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-11A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-11B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)



Lab Number: L1932369

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932369-12A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-12B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-13A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-13B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-14A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-14B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-15A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-15B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-16A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-16B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-17A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-17B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-18A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-18B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-19A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-19B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-20A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-20B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-21A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-21B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-22A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-22B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-23A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-23B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-24A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-24B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-25A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-25B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)



Lab Number: L1932369

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	Container Information			Final	Temp	•		Frozen	
Container ID	Container Type	Cooler	Initial pH	рН		Pres	Seal	Date/Time	Analysis(*)
L1932369-26A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-26B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-27A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-27B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-28A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-28B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-29A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-29B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-30A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-30B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-31A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-31B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-32A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-32B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-33A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-33B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-34A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-34B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-35A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-35B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-36A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-36B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-37A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-37B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-38A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-38B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-39A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-39B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)



Lab Number: L1932369

Report Date: 08/08/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1932369-40A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-40B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-41A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		PB-TI(180)
L1932369-41B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		TS(7)
L1932369-41X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.9	Υ	Absent		PB-CI(180)
L1932369-41X9	Tumble Vessel	Α	NA		3.9	Υ	Absent		-
L1932369-42A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-42B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-43A	Glass 60mL/2oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-METAL(180)
L1932369-43B	Glass 120ml/4oz unpreserved	Α	NA		3.9	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-44A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-44B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-45A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-45B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-46A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-46B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-47A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-47B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-48A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-48B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-49A	Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-METAL(180)
L1932369-49B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		HOLD-CONTINGENCY(14)
L1932369-50A	Plastic 250ml HNO3 preserved	В	<2	<2	3.2	Υ	Absent		HOLD-CONTINGENCY(7),HOLD-METAL- TOTAL(180)
L1932369-51A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.2	Υ	Absent		PB-TI(180)
L1932369-51B	Glass 120ml/4oz unpreserved	В	NA		3.2	Υ	Absent		TS(7)
L1932369-51X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.2	Υ	Absent		PB-CI(180)
L1932369-51X9	Tumble Vessel	В	NA		3.2	Υ	Absent		-



Project Name:805-825 ATLANTIC AVENUELab Number:L1932369Project Number:170384501Report Date:08/08/19

GLOSSARY

Acronyms

EMPC

LOQ

MS

RPD

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).

 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.)

 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.

 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.

- 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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932369

 Project Number:
 170384501
 Report Date:
 08/08/19

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

Terms

1

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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- The lower value for the two columns has been reported due to obvious interference.
- 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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1932369

 Project Number:
 170384501
 Report Date:
 08/08/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance Title: Certificate/Approval Program Summary

Revision 13 Published Date: 7/30/2019 3:17:52 PM

Page 1 of 1

ID No.:17873

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY			Date Rec'd in Lab 7 23 19 Deliverables □ ASP-A □ ASP-B □ EQuIS (1 File) □ EQUIS (4 File)					ALPHA Job # L 19 32 369 Billing Information Same as Client Info			
Client Information		Project #	170384501					Other					
Client: Langan En	gineering	(Use Project name as Pr					Regulatory Requirement						Disposal Site Information
Address: 360 W 31s	t Street, 8th Floor	Project Manager:	Kimberly De	el Col / Colin A	Inderson		NY TOGS NY Part 375						Please identify below location of applicable disposal facilities.
New York, NY 10001		ALPHAQuote #:					AWQ Standards NY CP-51						
Phone: 212479540	10	Turn-Around Time			☐ NY Restricted Use ☐ Other						Disposal Facility:		
Fax: 212479549	9	Standard ☑ Due Date:						NY Un	restricted L	lse			B NA B NA
Email: kdelcol@la	ngan.com	Rush (only if pre approved) # of Days:						NYC S	ewer Disch	arge			Other:
These samples have b	een previously analyz	ed by Alpha					ANA	LYSIS					Sample Filtration o
Other project specific Please CC: datamanag Please specify Metals	gement@langan.com		P = 7/2	7/19/F0	raic		Total Lead	TCLP Lead					□ Done □ Lab to do Preservation □ Lab to do (Please Specify below)
ALPHA Lab ID (Lab Use Only)	Sa	imple ID	Col	lection Time	Sample Matrix	Sampler's Initials							Sample Specific Comments
	SB-107A_#3451_3	AR JAIR SA	7/19/2019	7:33	Soil	TM	Х	×	_	+		\vdash	Hold All
	SB-107A A3-11-57		2/19/2019	7:34	Soil	TM	X	×	_	+	1	-	Hold All
	SB-107A A3-B1-734		77/19/2019	7:35	Soil	TM	X	x	_	+	_		Hold All
	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	A3-W2-12	7/19/2019	7:36	Soil	TM	x	x	_	+	1		Hold All
	SB-107A A3 E1213		7/19/2019	7.37	Soil	TM	x	×				\vdash	Hold All
		2-0-5-17		-	Soil	TM	x	-	_	+	-	\vdash	Hold All
	SB-107A_A4_3		7/19/2019	7:28	Soil		×	X	_	+	-		Hold All
	SB-107A_A4_5		##19/2019		Soil	TM	x	x		+			Hold All
	SB-107A_A4_7-12		7/19/2019	7:30	Soil	_	-	-	_	+-	-		Hold All
	SB-107A_A4_12 SB-107A_A4_13		7/19/2019	7:37	Soil	TM	X	X	_	+-	-		Hold All
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube	Westboro: Certification N Mansfield: Certification N Relinquished	No: MA935 No: MA015		Cor	ntainer Type Preservative	A	A			Date	/Time,	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
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	PHA gh, MA 01581	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048	Albany, NY 12205: 14 Walke Tonawanda, NY 14150: 275	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 Project Information			-		Date in I	.ab	7	/23	lis	ALPHA Job#
	kup Dr. 3-898-9220	320 Forbes Blvd TEL: 508-822-9300	-			المراجعة	يدهوندوري					ACD		Billing Information
5 Julian Laboration	3-898-9193	FAX: 508-822-3288	Project Name:		lantic Avenue			-	ASP-			ASP-		☑ Same as Client Info
Clientie	en alla	1	Project Location:	Brooklyn, N				1 🗀		6 (1 File)	1	EQui	S (4 File)	PO#
-	formation	CHARLE SERVICE	Project #	170384501										
Client:	Langan Er		(Use Project name as		- 1		17	Reg	ulatory	Requireme	nt	The same	The series	Disposal Site Information
Address:		st Street, 8th Floor	Project Manager:	Kimberly D	el Col / Colin /	Anderson			☐ NY TOGS ☐ NY Part 375					Please identify below location of
New York,	NY 10001		ALPHAQuote #:					☐ AWQ Standards ☐ NY.CP-51					-51	applicable disposal facilities.
Phone:	21247954	00	Turn-Around Time				MINIST THE		☐ NY Restricted Use ☐ Other					Disposal Facility:
Fax:	21247954	99	Standa	Standard ☑ Due Date:					NY Un	restricted Us	е			NJ WY
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These sam	ples have b	een previously analyze	ed by Alpha					ANA	LYSIS					Sample Filtration
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	datamana	gement@langan.com						otal Lead	P Lead					☐ Done ☐ Lab to do Preservation ☐ Lab to do
			DATE	DATE = 7/22/19 FOR ALL					TCLP					(Please Specify below)
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(Lab Us	(Lab Use Only) Sample ID		Date	Time	Matrix	Initials	ı						Sample Specific Comments	
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CASH INTO	13	SB-107A_A4E1_7-	12	7/19/2019	7:17	Soil	TM	X	x		+	\vdash		Hold All
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		SB-107A_A4E2_7-1		7/19/2019	7:22	Soil	TM	Х	X					Hold All
		SB-107A_A4E2_12		771972049	7:23	Soil	TM	X	X					Hold All
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A = None B = HCl C = HNO ₃ D = H ₂ SO ₄		P = Plastic A = Amber Glass V = Vial G = Glass	Vestboro: Certification No: MA935 Mansfield: Certification No: MA015				ntainer Type Preservative	A	A					Please print clearly, legibly and completely. Samples car not be logged in and turnaround time clock will not
= NaOH = MeOH G = NaHSO ₄ I = Na ₂ S ₂ O ₃ /E = Zn Ac/Na D = Other		B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	March 1871			1500 1830	52	Received By: Date/Time Date/Time 7/23/9/7/8				14/4	start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S	
orm No: 01-2	n No: 01-25 (rev. 30-Sept-2013)			/		-	_	1	110		TERMS & CONDITIONS.			

ДІРНА	NEW YORK CHAIN OF CUSTODY	Albany, NY 12205: 14 Walker	Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105			-			Rec'd Lab	7	231	19	ALPHA Job#
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TEL: 508-898-9220	TEL: 508-822-9300	Project Name:	805-825 Atla	antic Avenue				ASP-	A		ASP-	3	☑ Same as Client Info
FAX: 508-898-9193	FAX: 508-822-3288	Project Location:	Brooklyn, N'	Y				EQui	S (1 File)		EQuI5	S (4 File)	PO#
Client Information		Project #	170384501					Other	r				
Client: Langan E	ngineering	(Use Project name as P	Project #)				Regu	ulatory	Requirem	ent	No.	STAR.	Disposal Site Information
Address: 360 W 31	st Street, 8th Floor	Project Manager:	Kimberly De	Col / Colin /	Anderson		☐ NY TOGS ☐ NY Part 375						Please identify below location of
New York, NY 10001		ALPHAQuote #:					☐ AWQ Standards ☐ NY CP-51						applicable disposal facilities.
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Fax: 21247954	99	Standard ☑ Due Date:						NY Ur	restricted (Jse			NA NA
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(Lab Use Only)	ALPHA Lab ID (Lab Use Only) Sample ID		Date	Time	Sample Matrix	Sampler's Initials	1						Sample Specific Comments
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CONTRACTOR OF THE PARTY OF THE	SB-107A_A4W1_5		7/19/2019	7:11	Soil	TM	x	x	\vdash	+	\vdash		Hold All
	SB-107A_A4W1_7	95500	7/19/2019	7:12	Soil	TM	x	x	\vdash	+	+		Hold All
	SB-107A_A4W1_1		7/19/2019	7:13	Soil	TM	x	x	_	+	_		Hold All
	SB-107A_A4W1_1		7/19/2019	7:14	Soil	TM	x	X	\vdash	+	+		Hold All
	SB-107A_A4W2_3		7/19/2019	7:38	Soil	TM	-	-	\vdash		-		
	SB-107A_A4W2_5		7/19/2019	7:39	Soil	TM	×	X	\vdash	+-	-	_	Hold All
28		Contract Con	7/19/2019	7:40	Soil	TM	-	-	\vdash	+	-		Hold All
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	SB-107A_A4W2_1		7/19/2019 7/19/2019	7:41	Soil	TM	X	X		+-	+		Hold All
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification Mansfield: Certification	No: MA935	7-42	Cor	ntainer Type Preservative	A	AAA					Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not
E = NaOH F = MeOH	C = Cube	Relinquished	Bv:	Date	/Time	1 5	Becei	ved Po			Date	Time	start until any ambiguities are
G = NaHSO ₄	O = Other	TOMAS HONT		7/22/1	9 1500		Beceived By: Date/Time				11/1 15 1	resolved. BY EXECUTING THIS COC, THE CLIENT	
H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	D = BOD Bottle	Bottle 7/23/15 0345			11/1/2	20 20 5/27/1923 10000 7 7/23/903			933	HAS READ AND AGREES			
Form No: 01-25 (rev. 30-5	Sept-2013)	1	///	/		1			<u> </u>				

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 805-825 Atlantic Avenue, Brooklyn			Page of	6	1	Date I	ab		ASP-B	19 (4 File)	ALPHA Job # L 1932369 Billing Information Same as Client Info
		Project # 170384501	25 Allantic	Avenue, b	rookiyn, r	N 1	1 =	Other			-Qui3	(4 File)	
Client Information Client: Langan Engi	neering		-14M				Rec		Requireme	ent	/ T		Disposal Site Information
		(Use Project name as Pro Project Manager: Kimbo		1/2011		COC-A		NY TO	- 19		hat you A may have provide a constraint of the		
8th Fl., NY, NY 10		ALPHAQuote #:	city Del Co	1000	A Hot	NE ICOCO	NY TOGS NY Part 375 AWQ Standards NY CP-51					Please identify below location of applicable disposal facilities.	
Phone: (212) 479-5		Turn-Around Time					_	NY Restricted Use Other					Disposal Facility:
Fax: (212) 479-544		ALL DESCRIPTION OF THE PARTY OF	Standard Due Date:						restricted U	_	211161		N N N NY
Email: kdelcol@lang		Rush (only if pre approved)							Sewer Discha				Other:
											_		Sample Filtration
These samples have be Other project specific										Т	\neg		Done
Note "HOLD" on so		se are to be held pen	e are to be held pending PM authorization					per					Lab to do Preservation Lab to do (Please Specify below)
ALPHA Lab ID (Lab Use Only)	Sa	mple ID		ection	Sample Matrix	Sampler's Initials	darLe	CLP Lead					Samuela Samuella Communita
			Date	Time	000000000	2017/25/25	° /	-	_	+	\rightarrow	_	Sample Specific Comments
32369 - 31	The second name of the second na		7/22/19	7:00	Soil	TM	1	X	\vdash	+	-	_	HOLD ALL
	58-107A-			7:01	Soil		+	++		+	-	-	HOUS ALC
33		A3-E2-7-12		7:02	Soil		+	++		+	-	_	HOLD ALL
	5B-107A-			7:03	Soil Soil		+	++		+	-	_	HOUS ALL
35		-A3-82-13		7:04	Soil	-	+	++		+	-	+	HOLD ALC.
	53-107A	A1-E2-3		7:05	Soil		+	++	_	+	-	+	HOLD ALL
	SB-107A_	A1-62-5		7:06	Soil	_	++	++-		+-	-	_	HOLD ALC
38		The second liverage with the second liverage w		Tot	Soil		+	++	\vdash	+	-	_	BOLD ALL
39	53-107A	-A1-E2-12	1	7:08	Soil	4	1	1		+	+	_	HOUS ALL
Preservative Code:	SB-10-TA Container Code	-AI-62_13		£:09	3011	- 1	-	-	_	+-	\rightarrow		
A = None B = HCI C = HNO ₃ D = H ₃ SO ₄	P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Mansfield: Certification No: MA015				ntainer Type Preservative	-	A			+	+	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other Form No: 01-25 HC (rev. 3)	C = Cube O = Other E = Encore D = BOD Battle		Relinquished By: Date/Time 1/3 // // // // // // // // // // // // /			Beceived By: Date/Time Dat				230	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S		

ALPHA CHAIN OF CUSTODY	Albany, NY 12205: 14 Walker W	Ishwah, NJ 07430: 35 Whitney Rd, Suite 5 Ibany, NY 12205: 14 Walker Way onawanda, NY 14150: 275 Cooper Ave, Suite 105					Date Rec'd 7/23/19					ALPHA Job#
Westborough, MA 01581 Mansfield, MA 02048 8 Walkup Dr. 320 Forbes Blvd	Project Information					Deli	verable	es .				Billing Information
TEL: 508-898-9220 TEL: 508-822-9300	Project Name: 805-825	Atlantic A	Avenue			V	ASP	Α		ASP-	3	Same as Client Info
FAX: 508-898-9193 FAX: 508-822-3288	Project Location: 805-8	25 Atlantic	Avenue, E	Brooklyn, N	IY.	17	EQu	S (1 File)	V	EQuis	6 (4 File)	PO#
Client Information	Project # 170384501					1 =	Othe				2000000	
Client: Langan Engineering	(Use Project name as Pro	piect #)				Ren	-	Requirem	ent			Disposal Site Information
	Project Manager: Kimb		01 /0-15	N AND	FORM		NY TOGS NY Part 375					IL CONTRACTOR CONTRACTOR STATE OF THE CONTRACTOR
8th Fl., NY, NY 10001-2727	ALPHAQuote #:		1000	0 /4-13	105000	AWQ Standards NY CP-51						Please identify below location of applicable disposal facilities.
Phone: (212) 479-5400	Turn-Around Time						NY Restricted Use Other					Disposal Facility:
(242) 470 5444					1 -	_	restricted t		Oliver			
- Independent						-						=
	elCol@langan.com Rush (only # pre approved). # of Days:							Sewer Disc	iarge	_		Other:
Other project specific requirements/comm							LYSIS		_			Sample Filtration
Note "HOLD" on some samples, thes	se are to be held pen	ding PM a	uthorization	1		P	10					Done Lab to do Preservation Lab to do B (Please Specify below)
ALPHA Lab ID	Sample ID Collection Sample Sam				Sampler's	Lea Lea	CLP Les					1
(Lab Ose Only)	MARKET .	Time	Matrix	Initials	ello Ello	5					Sample Specific Comments	
32369 - 41 SB-107A-	A1-W1-7-R	7/12/19	7:25	Soil	14	X	0%					
42 SB-10+A-	A1-W1-17	1	7176	Soil		1	T					HELD ALL
43 SB-107A	A1-W1-13		7127	Soil					1			HOLD ALL
44 55-1070			7:43	Soil			11				\neg	14040 ALC
45 SB-107A.	-A1-IN2-5		7:44	Soil					+			140LD AV
46 SB-107A-	AL-W2 7-12		7:45	Soil			+		+			YAOUS ALL
47 SB-107A-			7.46	Soil			+		+		-	Hous Aze
	per-W2-13		7.47	Soil		1	+		+	-	_	Hous ALL
49 DUPDZ - 2	1015270		7.41	Soil			1		+	\vdash	_	
	90727	1	7:48	Spit AQ	1	1	1		+			HOLD ALL
Preservative Code: Container Code A = None P = Plastic	Westboro: Certification No Mansfield: Certification No		7-70	1	tainer Type	A	Α					Please print clearly, legibly and completely. Samples can
D = H ₂ SO ₄ G = Glass E = NaOH B = Bacteria Cup F = MeOH C = Cube	Preservative Relinquished By: Date/Time					A A				not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING		
G = NaHSO ₄	10 Mas Martin 7/2/19 1502 /					THIS COC, THE CLI HAS READ AND AG TO BE BOUND BY A				THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.		

ДІРНА	NEW YORK CHAIN OF CUSTODY	Albany, NY 12205: 14 Walker V	hwah, NJ 07430: 35 Whitney Rd, Suite 5 bany, NY 12205: 14 Walker Way nawanda, NY 14160: 275 Cooper Ave, Suite 105			6			Rec'd Lab	71	23/1	9	ALPHA JOB # L 193 2369
Westborough, MA 01581 8 Walkup Dr.	Mansfield, MA 02048 320 Forbes Blvd	Project Information					De	liverabl	es				Billing Information
TEL: 508-898-9220 FAX: 508-898-9193	TEL: 508-822-9300 FAX: 508-822-3288	Project Name: 805-82	5 Atlantic A	\venue				ASF	-A		ASP-B		Same as Client Info
FAX 200-090-9183	FMA: 300-622-3268	Project Location: 805-8	325 Atlantic	Avenue, B	Brooklyn, N	IY.		EQU	IS (1 File		EQuIS (4	File)	PO#
Client Information		Project # 170384501					7 [Othe	er				
Client: Langan Eng	gineering	(Use Project name as Pr	roject #)				Re	gulator	Require	ment	Her	130	Disposal Site Information
Address: 21 Penn P	laza, 360 W. 31st St			of /cours	ANDE	Enra		NYT	A STATE OF THE PARTY OF THE PAR		5	Please identify below location of	
8th Fl., NY, NY 10	0001-2727	ALPHAQuote #:		1000	The state of the s	- 3 - 1	커 i	AWQ Standards NY CP-51					applicable disposal facilities.
Phone: (212) 479-5		Turn-Around Time	HE I			- 177	i i	NY Restricted Use Other					Disposal Facility:
Fax: (212) 479-544	-	THE RESERVE THE PARTY OF THE PA	Standard 🗹 Due Date:						nrestricted		Olifer		NJ NY
Email: kdelcol@lar			ush (only if pre approved) # of Days:						Sewer Dis				
			<i>u</i>	# Of Days		_				charge		_	Other:
Other project specific	een previously analyze						AN	ALYSI	· ·			_	Sample Filtration
Please specify Metals		se are to be held pen			1			pe					Done Lab to do Preservation Lab to do (Please Specify below)
ALPHA Lab ID	Sa	mple ID	Col	lection	Sample	Sample		CLP Le	1 1				
(Lab Use Only)			Date	Time	Matrix	Initials	Tio!	12					Sample Specific Comments
To	TENTON	MOR BUILDING	4Days	20491	1861 ACC	200	23	20					
774	#1868-201	rosselve.	1	480	Selfage	1	77	7					
32369 - 51	DRUMOI-	SSEOPICS	07/22/19	7:49	Soil	774	1 1	C X					
					Soil		717						
					Soil								
					Soil								
MINISTRA					Soil		\top	11				\top	
					Soil		11						
DENTY STREET					Soil								
What was the			14		Soil	4	N	1				_	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass	Westboro: Certification N Mansfield: Certification N			Con	tainer Typ		A					Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not
E = NaOH F = MeOH	B = Bacteria Cup C = Cube		Relinquished By: Date/Time						\perp	_			start until any ambiguities are
S = NaHSO ₄ H = Na ₂ S ₂ O ₃ (/E = Zn Ac/NaOH D = Other	O = Other E = Encore D = BOD Bottle	Relinquished I	By: ,	7/22/1		0	Rec	ived B		1 3/	Date/Tim	196	resolved. BY EXECUTING ITHIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.
Form No: 01-25 HC (rev. 3	0-Sept-2013)		7.0	4/5	037)	100		_	1	- 0	171970	21/3	(See reverse side.)



ANALYTICAL REPORT

Lab Number: L1925921

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Colin Anderson Phone: (212) 479-5400

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 08/14/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921 **Report Date:** 08/14/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1925921-01	WC-03_0-6	SOIL	BROOKLYN, NY	06/14/19 12:15	06/14/19
L1925921-02	WC-03_6-12	SOIL	BROOKLYN, NY	06/14/19 12:05	06/14/19
L1925921-03	WC-03_12-18	SOIL	BROOKLYN, NY	06/14/19 12:25	06/14/19
L1925921-04	WC-03_18-26	SOIL	BROOKLYN, NY	06/14/19 12:00	06/14/19
L1925921-05	WC-03_2-3	SOIL	BROOKLYN, NY	06/14/19 09:10	06/14/19
L1925921-06	WC-03_7-8	SOIL	BROOKLYN, NY	06/14/19 11:45	06/14/19
L1925921-07	WC-03_15-16	SOIL	BROOKLYN, NY	06/14/19 11:30	06/14/19
L1925921-08	WC-03_25-26	SOIL	BROOKLYN, NY	06/14/19 09:07	06/14/19
L1925921-09	WP-SB-01_2-2.5	SOIL	BROOKLYN, NY	06/14/19 12:40	06/14/19
L1925921-10	WP-SB-01_3-3.5	SOIL	BROOKLYN, NY	06/14/19 12:45	06/14/19
L1925921-11	WP-SB-01_A_1-2	SOIL	BROOKLYN, NY	06/14/19 12:50	06/14/19
L1925921-12	WP-SB-01_B_1-2	SOIL	BROOKLYN, NY	06/14/19 12:55	06/14/19
L1925921-13	WP-SB-01_C_1-2	SOIL	BROOKLYN, NY	06/14/19 13:00	06/14/19
L1925921-14	SB-05_0-1	SOIL	BROOKLYN, NY	06/14/19 09:50	06/14/19
L1925921-15	SB-05_5-6	SOIL	BROOKLYN, NY	06/14/19 09:54	06/14/19
L1925921-16	SB-06_4-5	SOIL	BROOKLYN, NY	06/14/19 11:40	06/14/19
L1925921-17	SB-06_0-1	SOIL	BROOKLYN, NY	06/14/19 11:35	06/14/19
L1925921-18	SB-05_2-3	SOIL	BROOKLYN, NY	06/14/19 09:10	06/14/19
L1925921-19	SB-05_6-7	SOIL	BROOKLYN, NY	06/14/19 09:56	06/14/19
L1925921-20	SB-05_8-9	SOIL	BROOKLYN, NY	06/14/19 09:58	06/14/19
L1925921-21	SB-06_9-10	SOIL	BROOKLYN, NY	06/14/19 11:47	06/14/19
L1925921-22	SB-06_10-11	SOIL	BROOKLYN, NY	06/14/19 11:50	06/14/19
L1925921-23	SB-06_7-8	SOIL	BROOKLYN, NY	06/14/19 11:45	06/14/19
Page3924124	SB-05_12-13	SOIL	BROOKLYN, NY	06/14/19 10:10	06/14/19



Alpha			Sample	Serial_No Collection	o:08141915:24
Sample ID	Client ID	Matrix	Location	Date/Time	Receive Date
L1925921-25	SB-05_14-15	SOIL	BROOKLYN, NY	06/14/19 10:12	06/14/19
L1925921-26	SB-05_17-18	SOIL	BROOKLYN, NY	06/14/19 10:15	06/14/19
L1925921-27	SB-06_16-17	SOIL	BROOKLYN, NY	06/14/19 12:20	06/14/19
L1925921-28	SB-06_15-16	SOIL	BROOKLYN, NY	06/14/19 11:30	06/14/19
L1925921-29	SB-05_18-19	SOIL	BROOKLYN, NY	06/14/19 10:18	06/14/19
L1925921-30	SB-05_20-21	SOIL	BROOKLYN, NY	06/14/19 10:20	06/14/19
L1925921-31	SB-05_21-22	SOIL	BROOKLYN, NY	06/14/19 10:22	06/14/19
L1925921-32	SB-05_23-24	SOIL	BROOKLYN, NY	06/14/19 10:24	06/14/19
L1925921-33	SB-05_25-26	SOIL	BROOKLYN, NY	06/14/19 09:07	06/14/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921 **Project Number:** 170384501 08/14/19

Report Date:

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: 805-825 ATLANTIC AVENUE Lab Number: L1925921
Project Number: 170384501 Report Date: 08/14/19

Case Narrative (continued)

Report Revision

August 14, 2019: The sample ID for L1925921-09 has been amended.

Report Submission

July 22, 2019: This final report includes the results of all requested analyses.

July 08, 2019: This preliminary report includes the results of the TCLP Lead analysis performed on L1925921-01.

June 25, 2019: This is a preliminary report.

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

Sample Receipt

The analyses performed were specified by the client.

L1925921-18: The collection date and time on the chain of custody was 14-JUN-19 09:10; however, the collection date/time on the container label was 14-JUN-19 09:52. At the client's request, the collection date/time is reported as 14-JUN-19 09:10.

Total Metals

L1925921-01 through -04 The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1251112-1 Method Blank, associated with L1925921-01 through -04, -09, -11, -12, and -13, has a concentration above the reporting limit for iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

Cyanide, Total

The WG1249204-2/-3 LCS/LCSD recoveries (78%/78%), associated with L1925921-01 through -04, are



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

Case Narrative (continued)

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:

Title: Technical Director/Representative Date: 08/14/19

Custen Walker Cristin Walker

ORGANICS



VOLATILES



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

SAMPLE RESULTS

Report Date: 08/14/19

Lab Number:

Lab ID: Date Collected: L1925921-05 Client ID: WC-03_2-3 Field Prep: Sample Location: BROOKLYN, NY

Date Received: 06/14/19

L1925921

06/14/19 09:10

Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 06/20/19 15:13

Analyst: ΑD 90% Percent Solids:

Wolatile Organics by EPA 5035 Low - Westborough Lab Methylene chloride ND ug/kg 4.0 1.8 1 1,1-Dichloroethane ND ug/kg 0.81 0.12 1 Chloroform ND ug/kg 0.81 0.12 1 Carbon tetrachloride ND ug/kg 0.81 0.18 1 Carbon tetrachloropropane ND ug/kg 0.81 0.10 1 Dibromochloromethane ND ug/kg 0.81 0.11 1 1,2-Pirichloroethane ND ug/kg 0.81 0.22 1 Chlorobarzene ND ug/kg 0.40 0.16 1 Chlorobarzene ND ug/kg 0.40 0.16 1 Trichlorofluoromethane ND ug/kg 0.40 0.16 1 L2-Dichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.13 1 Izas-	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,1-Dichloroethane	Volatile Organics by EPA 5035 Lov	v - Westborough Lab					
1,1-Dichloroethane ND ug/kg 0.81 0.12 1 Chloroform ND ug/kg 1.2 0.11 1 Carbon tetrachloride ND ug/kg 0.81 0.18 1 1,2-Dichloropropane ND ug/kg 0.81 0.10 1 Dibromochloromethane ND ug/kg 0.81 0.22 1 1,1,2-Trichloroethane ND ug/kg 0.40 0.16 1 1,1,2-Trichloroethane ND ug/kg 0.40 0.16 1 Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofluoromethane ND ug/kg 0.40 0.10 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1-Dirichloroethane ND ug/kg 0.40 0.09 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg	Methylene chloride	ND		ug/kg	4.0	1.8	1
Carbon tetrachloride ND ug/kg 0.81 0.18 1 1,2-Dichloropropane ND ug/kg 0.81 0.10 1 Dibromochloromethane ND ug/kg 0.81 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.81 0.22 1 Tetrachloroethane 0.33 J ug/kg 0.40 0.16 1 Tetrachloroethane ND ug/kg 0.40 0.10 1 Trichlorofubrane ND ug/kg 0.40 0.10 1 1,2-Dichloromethane ND ug/kg 0.81 0.21 1 1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene, Total ND </td <td>1,1-Dichloroethane</td> <td>ND</td> <td></td> <td></td> <td>0.81</td> <td>0.12</td> <td>1</td>	1,1-Dichloroethane	ND			0.81	0.12	1
Carbon tetrachloride ND ug/kg 0.81 0.18 1 1,2-Dichloropropane ND ug/kg 0.81 0.10 1 Dibromochloromethane ND ug/kg 0.81 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.81 0.22 1 Chlorobenzene ND ug/kg 0.40 0.16 1 Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofuloromethane ND ug/kg 0.40 0.10 1 1,2-Dichloroprothane ND ug/kg 0.81 0.21 1 1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene, Total ND ug/kg<	Chloroform	ND		ug/kg	1.2	0.11	1
Dibromochloromethane ND ug/kg 0.81 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.81 0.22 1 Tetrachloroethane 0.33 J ug/kg 0.40 0.16 1 Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofluoromethane ND ug/kg 3.2 0.56 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Benomoform ND	Carbon tetrachloride	ND			0.81	0.18	1
1,1,2-Trichloroethane ND ug/kg 0.81 0.22 1 Tetrachloroethene 0.33 J ug/kg 0.40 0.16 1 Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofluoromethane ND ug/kg 3.2 0.56 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 0.40 0.13 1 Toluene ND ug/kg	1,2-Dichloropropane	ND		ug/kg	0.81	0.10	1
Tetrachloroethene 0.33 J ug/kg 0.40 0.16 1 Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofluoromethane ND ug/kg 3.2 0.56 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene, Total ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 0.40 0.13 1 Benzene ND ug/kg	Dibromochloromethane	ND		ug/kg	0.81	0.11	1
Chlorobenzene ND ug/kg 0.40 0.10 1 Trichlorofluoromethane ND ug/kg 3.2 0.56 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 0.40 0.13 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81	1,1,2-Trichloroethane	ND		ug/kg	0.81	0.22	1
Trichlorofluoromethane ND ug/kg 3.2 0.56 1 1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 0.40 0.13 1 1,1-2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81	Tetrachloroethene	0.33	J	ug/kg	0.40	0.16	1
1,2-Dichloroethane ND ug/kg 0.81 0.21 1 1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.40 0.09 1 cis-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Z-Tetrachloropropene ND ug/kg 0.40 0.13 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg	Chlorobenzene	ND		ug/kg	0.40	0.10	1
1,1,1-Trichloroethane ND ug/kg 0.40 0.13 1 Bromodichloromethane ND ug/kg 0.40 0.09 1 trans-1,3-Dichloropropene ND ug/kg 0.81 0.22 1 cis-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.40 0.13 1 Ethylbenzene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 0.81 0.47 </td <td>Trichlorofluoromethane</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>3.2</td> <td>0.56</td> <td>1</td>	Trichlorofluoromethane	ND		ug/kg	3.2	0.56	1
Bromodichloromethane ND	1,2-Dichloroethane	ND		ug/kg	0.81	0.21	1
trans-1,3-Dichloropropene ND ug/kg 0.81 0.22 1 cis-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.40 0.13 1 Ethylbenzene ND ug/kg 0.40 0.13 1 Chloromethane ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	1,1,1-Trichloroethane	ND		ug/kg	0.40	0.13	1
cis-1,3-Dichloropropene ND ug/kg 0.40 0.13 1 1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 0.81 0.19 1	Bromodichloromethane	ND		ug/kg	0.40	0.09	1
1,3-Dichloropropene, Total ND ug/kg 0.40 0.13 1 1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	trans-1,3-Dichloropropene	ND		ug/kg	0.81	0.22	1
1,1-Dichloropropene ND ug/kg 0.40 0.13 1 Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	cis-1,3-Dichloropropene	ND		ug/kg	0.40	0.13	1
Bromoform ND ug/kg 3.2 0.20 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	1,3-Dichloropropene, Total	ND		ug/kg	0.40	0.13	1
1,1,2,2-Tetrachloroethane ND ug/kg 0.40 0.13 1 Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	1,1-Dichloropropene	ND		ug/kg	0.40	0.13	1
Benzene ND ug/kg 0.40 0.13 1 Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Bromoform	ND		ug/kg	3.2	0.20	1
Toluene ND ug/kg 0.81 0.44 1 Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Ethylbenzene ND ug/kg 0.81 0.11 1 Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Benzene	ND		ug/kg	0.40	0.13	1
Chloromethane ND ug/kg 3.2 0.75 1 Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Toluene	ND		ug/kg	0.81	0.44	1
Bromomethane ND ug/kg 1.6 0.47 1 Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Ethylbenzene	ND		ug/kg	0.81	0.11	1
Vinyl chloride ND ug/kg 0.81 0.27 1 Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Chloromethane	ND		ug/kg	3.2	0.75	1
Chloroethane ND ug/kg 1.6 0.36 1 1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Bromomethane	ND		ug/kg	1.6	0.47	1
1,1-Dichloroethene ND ug/kg 0.81 0.19 1	Vinyl chloride	ND		ug/kg	0.81	0.27	1
2 4515	Chloroethane	ND		ug/kg	1.6	0.36	1
trans-1,2-Dichloroethene ND ug/kg 1.2 0.11 1	1,1-Dichloroethene	ND		ug/kg	0.81	0.19	1
	trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-05 Date Collected: 06/14/19 09:10

Client ID: WC-03_2-3 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low - Westborough Lab							
Triphlaraethana	ND			0.40	0.11	1	
Trichloroethene	ND		ug/kg	0.40	0.11	1	
1,2-Dichlorobenzene	ND ND		ug/kg	1.6	0.12	1	
1,3-Dichlorobenzene			ug/kg	1.6	0.12	1	
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1	
Methyl tert butyl ether	0.46	J	ug/kg	1.6	0.16	1	
p/m-Xylene	ND		ug/kg	1.6	0.45	1	
o-Xylene	ND		ug/kg	0.81	0.23	1	
Xylenes, Total	ND		ug/kg	0.81	0.23	1	
cis-1,2-Dichloroethene	ND		ug/kg	0.81	0.14	1	
Dibromomethane	ND		ug/kg	1.6	0.19	1	
Styrene	ND		ug/kg	0.81	0.16	1	
Dichlorodifluoromethane	ND		ug/kg	8.1	0.74	1	
Acetone	6.8	J	ug/kg	8.1	3.9	1	
Carbon disulfide	ND		ug/kg	8.1	3.7	1	
2-Butanone	ND		ug/kg	8.1	1.8	1	
Vinyl acetate	ND		ug/kg	8.1	1.7	1	
4-Methyl-2-pentanone	ND		ug/kg	8.1	1.0	1	
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1	
2-Hexanone	ND		ug/kg	8.1	0.95	1	
Bromochloromethane	ND		ug/kg	1.6	0.16	1	
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1	
1,2-Dibromoethane	ND		ug/kg	0.81	0.22	1	
1,3-Dichloropropane	ND		ug/kg	1.6	0.13	1	
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	0.11	1	
Bromobenzene	ND		ug/kg	1.6	0.12	1	
n-Butylbenzene	ND		ug/kg	0.81	0.13	1	
sec-Butylbenzene	ND		ug/kg	0.81	0.12	1	
tert-Butylbenzene	ND		ug/kg	1.6	0.10	1	
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1	
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1	
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.80	1	
Hexachlorobutadiene	ND		ug/kg	3.2	0.14	1	
Isopropylbenzene	ND		ug/kg	0.81	0.09	1	
p-Isopropyltoluene	ND		ug/kg	0.81	0.09	1	
Naphthalene	ND		ug/kg	3.2	0.52	1	
Acrylonitrile	ND		ug/kg	3.2	0.93	1	
Tert-Butyl Alcohol	9.0	J	ug/kg	16	4.2	1	
·							



Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-05 Date Collected: 06/14/19 09:10

Client ID: WC-03_2-3 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low	- Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.81	0.14	1	
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1	
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1	
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.16	1	
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1	
Methyl Acetate	ND		ug/kg	3.2	0.77	1	
Acrolein	ND		ug/kg	20	4.5	1	
Cyclohexane	ND		ug/kg	8.1	0.44	1	
1,4-Dioxane	ND		ug/kg	64	28.	1	
Freon-113	ND		ug/kg	3.2	0.56	1	
p-Diethylbenzene	ND		ug/kg	1.6	0.14	1	
p-Ethyltoluene	ND		ug/kg	1.6	0.31	1	
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.6	0.15	1	
Ethyl ether	ND		ug/kg	1.6	0.28	1	
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	1.1	1	
Methyl cyclohexane	ND		ug/kg	3.2	0.49	1	

Tentatively Identified Compounds				
Total TIC Compounds	1.97	J	ug/kg	1
Unknown Alkane	1.97	J	ug/kg	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	101	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	98	70-130	
Dibromofluoromethane	105	70-130	



L1925921

Project Name: 805-825 ATLANTIC AVENUE

L1925921-06

BROOKLYN, NY

WC-03_7-8

Project Number: 170384501

SAMPLE RESULTS

Report Date: 08/14/19

Date Collected: 06/14/19 11:45

Lab Number:

Date Received: 06/14/19 Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 06/20/19 15:43

Analyst: ΑD 94% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - We	stborough Lab					
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.83	0.12	1
Chloroform	ND		ug/kg	1.2	0.12	1
Carbon tetrachloride	ND		ug/kg	0.83	0.19	1
1,2-Dichloropropane	ND		ug/kg	0.83	0.10	1
Dibromochloromethane	ND		ug/kg	0.83	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.83	0.22	1
Tetrachloroethene	ND		ug/kg	0.42	0.16	1
Chlorobenzene	ND		ug/kg	0.42	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.3	0.58	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.42	0.14	1
Bromodichloromethane	ND		ug/kg	0.42	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	0.42	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.42	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.42	0.13	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.42	0.14	1
Benzene	ND		ug/kg	0.42	0.14	1
Toluene	ND		ug/kg	0.83	0.45	1
Ethylbenzene	ND		ug/kg	0.83	0.12	1
Chloromethane	ND		ug/kg	3.3	0.78	1
Bromomethane	ND		ug/kg	1.7	0.48	1
Vinyl chloride	ND		ug/kg	0.83	0.28	1
Chloroethane	ND		ug/kg	1.7	0.38	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.20	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-06 Date Collected: 06/14/19 11:45

Client ID: WC-03_7-8 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low - Westborough Lab							
Trichlanashana	ND			0.40	0.44	4	
Trichloroethene	ND		ug/kg	0.42	0.11	1	
1,2-Dichlorobenzene	ND ND		ug/kg	1.7	0.12	1	
1,3-Dichlorobenzene			ug/kg	1.7	0.12	1	
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1	
Methyl tert butyl ether	0.24	J	ug/kg	1.7	0.17	1	
p/m-Xylene	ND		ug/kg	1.7	0.47	1	
o-Xylene	ND		ug/kg	0.83	0.24	1	
Xylenes, Total	ND		ug/kg	0.83	0.24	1	
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.14	1	
Dibromomethane	ND		ug/kg	1.7	0.20	1	
Styrene	ND		ug/kg	0.83	0.16	1	
Dichlorodifluoromethane	ND		ug/kg	8.3	0.76	1	
Acetone	ND		ug/kg	8.3	4.0	1	
Carbon disulfide	ND		ug/kg	8.3	3.8	1	
2-Butanone	ND		ug/kg	8.3	1.8	1	
Vinyl acetate	ND		ug/kg	8.3	1.8	1	
4-Methyl-2-pentanone	ND		ug/kg	8.3	1.1	1	
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.10	1	
2-Hexanone	ND		ug/kg	8.3	0.98	1	
Bromochloromethane	ND		ug/kg	1.7	0.17	1	
2,2-Dichloropropane	ND		ug/kg	1.7	0.17	1	
1,2-Dibromoethane	ND		ug/kg	0.83	0.23	1	
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1	
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.42	0.11	1	
Bromobenzene	ND		ug/kg	1.7	0.12	1	
n-Butylbenzene	ND		ug/kg	0.83	0.14	1	
sec-Butylbenzene	ND		ug/kg	0.83	0.12	1	
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1	
o-Chlorotoluene	ND		ug/kg	1.7	0.16	1	
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1	
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.5	0.83	1	
Hexachlorobutadiene	ND		ug/kg	3.3	0.14	1	
Isopropylbenzene	ND		ug/kg	0.83	0.09	1	
p-Isopropyltoluene	ND		ug/kg	0.83	0.09	1	
Naphthalene	ND		ug/kg	3.3	0.54	1	
Acrylonitrile	ND		ug/kg	3.3	0.96	1	
Tert-Butyl Alcohol	5.8	J	ug/kg	17	4.3	1	



Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-06 Date Collected: 06/14/19 11:45

Client ID: WC-03_7-8 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low	- Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.83	0.14	1	
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.27	1	
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.23	1	
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.16	1	
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.28	1	
Methyl Acetate	14		ug/kg	3.3	0.79	1	
Acrolein	ND		ug/kg	21	4.7	1	
Cyclohexane	ND		ug/kg	8.3	0.45	1	
1,4-Dioxane	ND		ug/kg	67	29.	1	
Freon-113	ND		ug/kg	3.3	0.58	1	
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1	
p-Ethyltoluene	ND		ug/kg	1.7	0.32	1	
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.16	1	
Ethyl ether	ND		ug/kg	1.7	0.28	1	
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	1.2	1	
Methyl cyclohexane	ND		ug/kg	3.3	0.50	1	

Tentatively Identified Compounds				
Total TIC Compounds	2.13	J	ug/kg	1
Unknown Alkane	2.13	J	ug/kg	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	96	70-130	
Dibromofluoromethane	104	70-130	



L1925921

06/14/19 11:30

Project Name: 805-825 ATLANTIC AVENUE

L1925921-07

WC-03_15-16

BROOKLYN, NY

Project Number: 170384501

SAMPLE RESULTS

08/14/19

Report Date:

Lab Number:

Date Collected:

Date Received: 06/14/19 Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 06/20/19 16:13

Analyst: ΑD 93% Percent Solids:

1,1-Dichloroethane	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,1-Dichloroethane	Volatile Organics by EPA 5035 Lov	v - Westborough Lab					
1,1-Dichloroethane ND ug/kg 0.78 0.11 1 Chloroform ND ug/kg 1.2 0.11 1 Carbon tetrachloride ND ug/kg 0.78 0.18 1 1,2-Dichloropropane ND ug/kg 0.78 0.10 1 Dibromochloromethane ND ug/kg 0.78 0.21 1 1,1,2-Trichloroethane ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.10 1 Trichlorofiluoromethane ND ug/kg 0.39 0.10 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,2-Trichloroethane ND ug/kg 0.39 0.10 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.39 </td <td>Methylene chloride</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>3.9</td> <td>1.8</td> <td>1</td>	Methylene chloride	ND		ug/kg	3.9	1.8	1
Carbon tetrachloride ND ug/kg 0.78 0.18 1 1,2-Dichloropropane ND ug/kg 0.78 0.10 1 Dibromochloromethane ND ug/kg 0.78 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.78 0.21 1 Tetrachloroethane ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.10 1 Trichloroffuoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.03 1 Bromodichloromethane ND ug/kg 0.39 0.03 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 trans-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg	1,1-Dichloroethane	ND			0.78	0.11	1
1,2-Dichloropropane ND ug/kg 0.78 0.10 1 Dibromochloromethane ND ug/kg 0.78 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.78 0.21 1 Tetrachloroethene ND ug/kg 0.39 0.15 1 Chlorobarzene ND ug/kg 0.39 0.10 1 Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,1-1-Trichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 dis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,1,2-2-Tetrachloroethane ND ug/	Chloroform	ND		ug/kg	1.2	0.11	1
Dibromochloromethane ND ug/kg 0.78 0.11 1 1,1,2-Trichloroethane ND ug/kg 0.78 0.21 1 Tetrachloroethane ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.10 1 Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.03 1 Bromodichloropropene ND ug/kg 0.78 0.21 1 trans-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromodorim ND ug/kg 0.	Carbon tetrachloride	ND		ug/kg	0.78	0.18	1
1,1,2-Trichloroethane ND ug/kg 0.78 0.21 1 Tetrachloroethene ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.10 1 Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Berzene ND ug/kg 0	1,2-Dichloropropane	ND		ug/kg	0.78	0.10	1
Tetrachloroethene ND ug/kg 0.39 0.15 1 Chlorobenzene ND ug/kg 0.39 0.10 1 Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 Bromodichloropropene ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 0.39 0.13 1 1,1,2,2-Tetrachloroethane ND ug/kg	Dibromochloromethane	ND		ug/kg	0.78	0.11	1
Chlorobenzene ND ug/kg 0.39 0.10 1 Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.39 0.02 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 0.39 0.12 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78	1,1,2-Trichloroethane	ND		ug/kg	0.78	0.21	1
Trichlorofluoromethane ND ug/kg 3.1 0.54 1 1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 0.39 0.12 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78	Tetrachloroethene	ND		ug/kg	0.39	0.15	1
1,2-Dichloroethane ND ug/kg 0.78 0.20 1 1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloroethane ND ug/kg 0.39 0.13 1 1,1-2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 1,1-2,2-Tetrachloroethane ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloroethane ND	Chlorobenzene	ND		ug/kg	0.39	0.10	1
1,1,1-Trichloroethane ND ug/kg 0.39 0.13 1 Bromodichloromethane ND ug/kg 0.39 0.08 1 trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.39 0.13 1 Ethylbenzene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 0.78 0.26 </td <td>Trichlorofluoromethane</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>3.1</td> <td>0.54</td> <td>1</td>	Trichlorofluoromethane	ND		ug/kg	3.1	0.54	1
ND	1,2-Dichloroethane	ND		ug/kg	0.78	0.20	1
trans-1,3-Dichloropropene ND ug/kg 0.78 0.21 1 cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.39 0.13 1 Ethylbenzene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 I,1-Dichloroethene ND ug/kg 1.6 0.35 1 I,1-Dichloroethene ND ug/kg 0.78 0.28 1.1	1,1,1-Trichloroethane	ND		ug/kg	0.39	0.13	1
cis-1,3-Dichloropropene ND ug/kg 0.39 0.12 1 1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 0.78 0.18 1	Bromodichloromethane	ND		ug/kg	0.39	0.08	1
1,3-Dichloropropene, Total ND ug/kg 0.39 0.12 1 1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	trans-1,3-Dichloropropene	ND		ug/kg	0.78	0.21	1
1,1-Dichloropropene ND ug/kg 0.39 0.12 1 Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	cis-1,3-Dichloropropene	ND		ug/kg	0.39	0.12	1
Bromoform ND ug/kg 3.1 0.19 1 1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	1,3-Dichloropropene, Total	ND		ug/kg	0.39	0.12	1
1,1,2,2-Tetrachloroethane ND ug/kg 0.39 0.13 1 Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	1,1-Dichloropropene	ND		ug/kg	0.39	0.12	1
Benzene ND ug/kg 0.39 0.13 1 Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Bromoform	ND		ug/kg	3.1	0.19	1
Toluene ND ug/kg 0.78 0.42 1 Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	1,1,2,2-Tetrachloroethane	ND		ug/kg	0.39	0.13	1
Ethylbenzene ND ug/kg 0.78 0.11 1 Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Benzene	ND		ug/kg	0.39	0.13	1
Chloromethane ND ug/kg 3.1 0.72 1 Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Toluene	ND		ug/kg	0.78	0.42	1
Bromomethane ND ug/kg 1.6 0.45 1 Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Ethylbenzene	ND		ug/kg	0.78	0.11	1
Vinyl chloride ND ug/kg 0.78 0.26 1 Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Chloromethane	ND		ug/kg	3.1	0.72	1
Chloroethane ND ug/kg 1.6 0.35 1 1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Bromomethane	ND		ug/kg	1.6	0.45	1
1,1-Dichloroethene ND ug/kg 0.78 0.18 1	Vinyl chloride	ND		ug/kg	0.78	0.26	1
-	Chloroethane	ND		ug/kg	1.6	0.35	1
trans-1,2-Dichloroethene ND ug/kg 1.2 0.11 1	1,1-Dichloroethene	ND		ug/kg	0.78	0.18	1
	trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-07 Date Collected: 06/14/19 11:30

Client ID: WC-03_15-16 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by EPA 5035 Low - Westborough Lab							
Triablese athere	ND			0.39	0.11	1	
Trichloroethene	ND		ug/kg	1.6	0.11		
1,2-Dichlorobenzene	ND		ug/kg			1	
1,3-Dichlorobenzene			ug/kg	1.6	0.11	1	
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.13	1	
Methyl tert butyl ether	0.46	J	ug/kg	1.6	0.16	1	
p/m-Xylene	ND		ug/kg	1.6	0.43	1	
o-Xylene	ND		ug/kg	0.78	0.22	1	
Xylenes, Total	ND		ug/kg	0.78	0.22	1	
cis-1,2-Dichloroethene	ND		ug/kg	0.78	0.14	1	
Dibromomethane	ND		ug/kg	1.6	0.18	1	
Styrene	ND		ug/kg	0.78	0.15	1	
Dichlorodifluoromethane	ND		ug/kg	7.8	0.71	1	
Acetone	22		ug/kg	7.8	3.7	1	
Carbon disulfide	ND		ug/kg	7.8	3.5	1	
2-Butanone	ND		ug/kg	7.8	1.7	1	
Vinyl acetate	ND		ug/kg	7.8	1.7	1	
4-Methyl-2-pentanone	ND		ug/kg	7.8	0.99	1	
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1	
2-Hexanone	ND		ug/kg	7.8	0.92	1	
Bromochloromethane	ND		ug/kg	1.6	0.16	1	
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1	
1,2-Dibromoethane	ND		ug/kg	0.78	0.22	1	
1,3-Dichloropropane	ND		ug/kg	1.6	0.13	1	
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.39	0.10	1	
Bromobenzene	ND		ug/kg	1.6	0.11	1	
n-Butylbenzene	ND		ug/kg	0.78	0.13	1	
sec-Butylbenzene	ND		ug/kg	0.78	0.11	1	
tert-Butylbenzene	ND		ug/kg	1.6	0.09	1	
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1	
p-Chlorotoluene	ND		ug/kg	1.6	0.08	1	
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.3	0.77	1	
Hexachlorobutadiene	ND		ug/kg	3.1	0.13	1	
Isopropylbenzene	ND		ug/kg	0.78	0.08	1	
p-Isopropyltoluene	ND		ug/kg	0.78	0.08	1	
Naphthalene	ND		ug/kg	3.1	0.50	1	
Acrylonitrile	ND		ug/kg	3.1	0.89	1	
Tert-Butyl Alcohol	8.0	J	ug/kg	16	4.0	1	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-07 Date Collected: 06/14/19 11:30

Client ID: WC-03_15-16 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
/olatile Organics by EPA 5035 Low - Westborough Lab								
n-Propylbenzene	ND		ug/kg	0.78	0.13	1		
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.25	1		
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.21	1		
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.15	1		
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.26	1		
Methyl Acetate	ND		ug/kg	3.1	0.74	1		
Acrolein	ND		ug/kg	19	4.4	1		
Cyclohexane	ND		ug/kg	7.8	0.42	1		
1,4-Dioxane	ND		ug/kg	62	27.	1		
Freon-113	ND		ug/kg	3.1	0.54	1		
p-Diethylbenzene	ND		ug/kg	1.6	0.14	1		
p-Ethyltoluene	ND		ug/kg	1.6	0.30	1		
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.6	0.15	1		
Ethyl ether	ND		ug/kg	1.6	0.26	1		
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.9	1.1	1		
Methyl cyclohexane	ND		ug/kg	3.1	0.47	1		

Tentatively Identified Compounds				
Total TIC Compounds	1.95	J	ug/kg	1
Unknown Alkane	1.95	J	ug/kg	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	95	70-130	
Dibromofluoromethane	104	70-130	



L1925921

06/14/19 09:07

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

SAMPLE RESULTS

Report Date:

Lab Number:

Date Collected:

08/14/19

Lab ID: L1925921-08 Client ID: WC-03_25-26 Sample Location: BROOKLYN, NY

Date Received: 06/14/19 Field Prep: Not Specified

Sample Depth:

Matrix: Soil Analytical Method: 1,8260C Analytical Date: 06/20/19 16:43

Analyst: ΑD 97% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westbe	orough Lab					
Methylene chloride	ND		ug/kg	4.0	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.79	0.11	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.79	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.79	0.10	1
Dibromochloromethane	ND		ug/kg	0.79	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.79	0.21	1
Tetrachloroethene	0.48		ug/kg	0.40	0.16	1
Chlorobenzene	ND		ug/kg	0.40	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.55	1
1,2-Dichloroethane	ND		ug/kg	0.79	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	0.13	1
Bromodichloromethane	ND		ug/kg	0.40	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.79	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	0.12	1
1,1-Dichloropropene	ND		ug/kg	0.40	0.12	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	ND		ug/kg	0.79	0.43	1
Ethylbenzene	ND		ug/kg	0.79	0.11	1
Chloromethane	ND		ug/kg	3.2	0.74	1
Bromomethane	ND		ug/kg	1.6	0.46	1
Vinyl chloride	ND		ug/kg	0.79	0.26	1
Chloroethane	ND		ug/kg	1.6	0.36	1
1,1-Dichloroethene	ND		ug/kg	0.79	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-08 Date Collected: 06/14/19 09:07

Client ID: WC-03_25-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low -	Westborough Lab					
Triabless athere	ND			0.40	0.44	4
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND ND		ug/kg	1.6	0.11	1
1,3-Dichlorobenzene			ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	0.50	J	ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.44	<u> </u>
o-Xylene	ND		ug/kg	0.79	0.23	<u> </u>
Xylenes, Total	ND		ug/kg	0.79	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	0.79	0.14	1
Dibromomethane	ND		ug/kg	1.6	0.19	1
Styrene	ND		ug/kg	0.79	0.16	1
Dichlorodifluoromethane	ND		ug/kg	7.9	0.72	1
Acetone	27		ug/kg	7.9	3.8	1
Carbon disulfide	ND		ug/kg	7.9	3.6	1
2-Butanone	ND		ug/kg	7.9	1.8	1
Vinyl acetate	ND		ug/kg	7.9	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	7.9	1.0	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
2-Hexanone	ND		ug/kg	7.9	0.93	1
Bromochloromethane	ND		ug/kg	1.6	0.16	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.79	0.22	1
1,3-Dichloropropane	ND		ug/kg	1.6	0.13	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	0.10	1
Bromobenzene	ND		ug/kg	1.6	0.11	1
n-Butylbenzene	ND		ug/kg	0.79	0.13	1
sec-Butylbenzene	ND		ug/kg	0.79	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.09	1
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.79	1
Hexachlorobutadiene	ND		ug/kg	3.2	0.13	1
Isopropylbenzene	ND		ug/kg	0.79	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.79	0.09	1
Naphthalene	ND		ug/kg	3.2	0.51	1
Acrylonitrile	ND		ug/kg	3.2	0.91	1
Tert-Butyl Alcohol	11	J	ug/kg	16	4.1	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-08 Date Collected: 06/14/19 09:07

Client ID: WC-03_25-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by EPA 5035 Low - Westborough Lab								
n-Propylbenzene	ND		ug/kg	0.79	0.14	1		
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.25	1		
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1		
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.15	1		
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.26	1		
Methyl Acetate	ND		ug/kg	3.2	0.75	1		
Acrolein	ND		ug/kg	20	4.4	1		
Cyclohexane	ND		ug/kg	7.9	0.43	1		
1,4-Dioxane	ND		ug/kg	63	28.	1		
Freon-113	ND		ug/kg	3.2	0.55	1		
p-Diethylbenzene	ND		ug/kg	1.6	0.14	1		
p-Ethyltoluene	ND		ug/kg	1.6	0.30	1		
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.6	0.15	1		
Ethyl ether	ND		ug/kg	1.6	0.27	1		
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	1.1	1		
Methyl cyclohexane	ND		ug/kg	3.2	0.48	1		

Tentatively Identified Compounds				
Total TIC Compounds	2.08	J	ug/kg	1
Unknown Alkane	2.08	J	ug/kg	1

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	99	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	106	70-130	



Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 06/20/19 08:19

Analyst: JC

arameter	Result	Qualifier	Units	RL	М	DL
olatile Organics by EPA 5035 Low	· - Westbord	ugh Lab for	sample(s):	05-08	Batch:	WG1251021-5
Methylene chloride	ND		ug/kg	5.0	2	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 Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 06/20/19 08:19

Analyst: JC

arameter	Result	Qualifier Units	RL	MDL
olatile Organics by EPA 5035	Low - Westboro	ugh Lab for sample(s):	05-08	Batch: WG1251021-5
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
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
p-Chlorotoluene	ND	ug/kg	2.0	0.11



Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 06/20/19 08:19

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MI	DL
olatile Organics by EPA 5035	Low - Westbord	ough Lab for	sample(s):	05-08	Batch:	WG1251021-5
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
Tert-Butyl Alcohol	ND		ug/kg	20	5	5.1
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
Methyl Acetate	ND		ug/kg	4.0	0	.95
Acrolein	ND		ug/kg	25	5	5.6
Cyclohexane	ND		ug/kg	10	0	.54
1,4-Dioxane	ND		ug/kg	80	3	35.
Freon-113	ND		ug/kg	4.0	0	.69
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
Methyl cyclohexane	ND		ug/kg	4.0	0	.60

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg



Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 06/20/19 08:19

Analyst: JC

ParameterResultQualifierUnitsRLMDLVolatile Organics by EPA 5035 Low - Westborough Lab for sample(s):05-08Batch:WG1251021-5

		Acceptance
Surrogate	%Recovery Qualifie	er Criteria
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130
Dibromofluoromethane	106	70-130



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	LCSD Qual %Recovery c	%Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by EPA 5035 Low - Westbo	rough Lab Ass	ociated sample(s): 05-08 Batch:	WG1251021-3 WG125	1021-4	
Methylene chloride	101	101	70-130	0	30
1,1-Dichloroethane	99	96	70-130	3	30
Chloroform	105	102	70-130	3	30
Carbon tetrachloride	115	110	70-130	4	30
1,2-Dichloropropane	95	96	70-130	1	30
Dibromochloromethane	104	103	70-130	1	30
1,1,2-Trichloroethane	96	96	70-130	0	30
Tetrachloroethene	114	109	70-130	4	30
Chlorobenzene	104	101	70-130	3	30
Trichlorofluoromethane	105	92	70-139	13	30
1,2-Dichloroethane	96	96	70-130	0	30
1,1,1-Trichloroethane	113	110	70-130	3	30
Bromodichloromethane	103	104	70-130	1	30
trans-1,3-Dichloropropene	98	97	70-130	1	30
cis-1,3-Dichloropropene	105	103	70-130	2	30
1,1-Dichloropropene	108	104	70-130	4	30
Bromoform	99	101	70-130	2	30
1,1,2,2-Tetrachloroethane	92	94	70-130	2	30
Benzene	102	99	70-130	3	30
Toluene	101	98	70-130	3	30
Ethylbenzene	104	101	70-130	3	30
Chloromethane	67	63	52-130	6	30
Bromomethane	99	83	57-147	18	30



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	RPD Qual Limits
Volatile Organics by EPA 5035 Low - West	oorough Lab Asso	ociated sample	(s): 05-08 Bat	ch: WG1	251021-3 WG125	51021-4	
Vinyl chloride	68		63	Q	67-130	8	30
Chloroethane	74		66		50-151	11	30
1,1-Dichloroethene	69		70		65-135	1	30
trans-1,2-Dichloroethene	108		103		70-130	5	30
Trichloroethene	106		102		70-130	4	30
1,2-Dichlorobenzene	103		102		70-130	1	30
1,3-Dichlorobenzene	104		101		70-130	3	30
1,4-Dichlorobenzene	102		100		70-130	2	30
Methyl tert butyl ether	105		106		66-130	1	30
p/m-Xylene	106		103		70-130	3	30
o-Xylene	104		101		70-130	3	30
cis-1,2-Dichloroethene	104		102		70-130	2	30
Dibromomethane	100		100		70-130	0	30
Styrene	108		105		70-130	3	30
Dichlorodifluoromethane	116		112		30-146	4	30
Acetone	98		91		54-140	7	30
Carbon disulfide	52	Q	70		59-130	30	30
2-Butanone	80		74		70-130	8	30
Vinyl acetate	103		106		70-130	3	30
4-Methyl-2-pentanone	86		92		70-130	7	30
1,2,3-Trichloropropane	90		91		68-130	1	30
2-Hexanone	81		83		70-130	2	30
Bromochloromethane	107		106		70-130	1	30



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	LCSD Qual %Recovery c	%Recovery Qual Limits	RPD	RPD Qual Limits
Volatile Organics by EPA 5035 Low - Westb	orough Lab Ass	ociated sample(s): 05-08 Batch:	WG1251021-3 WG125	1021-4	
2,2-Dichloropropane	112	106	70-130	6	30
1,2-Dibromoethane	100	101	70-130	1	30
1,3-Dichloropropane	95	95	69-130	0	30
1,1,1,2-Tetrachloroethane	108	106	70-130	2	30
Bromobenzene	103	101	70-130	2	30
n-Butylbenzene	105	101	70-130	4	30
sec-Butylbenzene	104	100	70-130	4	30
tert-Butylbenzene	103	100	70-130	3	30
o-Chlorotoluene	100	98	70-130	2	30
p-Chlorotoluene	100	99	70-130	1	30
1,2-Dibromo-3-chloropropane	99	106	68-130	7	30
Hexachlorobutadiene	114	117	67-130	3	30
Isopropylbenzene	102	99	70-130	3	30
p-Isopropyltoluene	106	103	70-130	3	30
Naphthalene	98	101	70-130	3	30
Acrylonitrile	83	85	70-130	2	30
Tert-Butyl Alcohol	88	92	70-130	4	30
n-Propylbenzene	101	98	70-130	3	30
1,2,3-Trichlorobenzene	104	106	70-130	2	30
1,2,4-Trichlorobenzene	110	111	70-130	1	30
1,3,5-Trimethylbenzene	103	100	70-130	3	30
1,2,4-Trimethylbenzene	102	99	70-130	3	30
Methyl Acetate	85	88	51-146	3	30



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

nrameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
platile Organics by EPA 5035 Low -	Westborough Lab Associ	ciated sample	e(s): 05-08 Ba	atch: WG12	51021-3 WG125	51021-4			
Acrolein	83		85		70-130	2		30	
Cyclohexane	103		98		59-142	5		30	
1,4-Dioxane	106		112		65-136	6		30	
Freon-113	72		78		50-139	8		30	
p-Diethylbenzene	106		102		70-130	4		30	
p-Ethyltoluene	102		100		70-130	2		30	
1,2,4,5-Tetramethylbenzene	108		108		70-130	0		30	
Ethyl ether	61	Q	72		67-130	17		30	
trans-1,4-Dichloro-2-butene	90		87		70-130	3		30	
Methyl cyclohexane	112		107		70-130	5		30	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96	97	70-130
Toluene-d8	99	99	70-130
4-Bromofluorobenzene	97	98	70-130
Dibromofluoromethane	103	105	70-130

SEMIVOLATILES



L1925921

08/14/19

06/20/19 03:03

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

SAMPLE RESULTS

Date Collected: 06/14/19 12:15

Lab Number:

Report Date:

Lab ID: L1925921-01 Date Received: Client ID: WC-03_0-6 06/14/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** Analytical Method: 1,8270D Analytical Date: 06/22/19 04:39

Analyst: RC 91% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westb	orough Lab					
Acenaphthene	72	J	ug/kg	140	18.	1
Benzidine	ND		ug/kg	590	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	1000		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	40	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01 Date Collected: 06/14/19 12:15

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - We	estborough Lab					
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	440		ug/kg	110	20.	1
Benzo(a)pyrene	380		ug/kg	140	44.	1
Benzo(b)fluoranthene	490		ug/kg	110	30.	1
Benzo(k)fluoranthene	170		ug/kg	110	28.	1
Chrysene	420		ug/kg	110	18.	1
Acenaphthylene	36	J	ug/kg	140	28.	1
Anthracene	150		ug/kg	110	35.	1
Benzo(ghi)perylene	220		ug/kg	140	21.	1
Fluorene	56	J	ug/kg	180	17.	1
Phenanthrene	780		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	54	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	230		ug/kg	140	25.	1
Pyrene	890		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	47	J	ug/kg	180	17.	1
2-Methylnaphthalene	22	J	ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	360	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01 Date Collected: 06/14/19 12:15

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS - V	Westborough Lab						
Phenol	ND		ug/kg	180	27.	1	
2-Methylphenol	ND		ug/kg	180	28.	1	
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1	
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1	
Benzoic Acid	ND		ug/kg	580	180	1	
Benzyl Alcohol	ND		ug/kg	180	55.	1	
Carbazole	69	J	ug/kg	180	17.	1	
Atrazine	ND		ug/kg	140	62.	1	
Benzaldehyde	ND		ug/kg	240	48.	1	
Caprolactam	ND		ug/kg	180	54.	1	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1	
1,4-Dioxane	ND		ug/kg	27	8.2	1	

Tentatively Identified Compounds				
Total TIC Compounds	4710	J	ug/kg	1
Unknown	690	J	ug/kg	1
Unknown Ketone	152	J	ug/kg	1
Unknown	431	J	ug/kg	1
Unknown PAH	309	J	ug/kg	1
Unknown Alcohol	960	J	ug/kg	1
Unknown	198	J	ug/kg	1
Unknown Amide	195	J	ug/kg	1
Unknown PAH	150	J	ug/kg	1
Unknown	893	J	ug/kg	1
Unknown	222	J	ug/kg	1
Unknown	362	J	ug/kg	1
Unknown Ketone	147	J	ug/kg	1

Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/14/19 12:15

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	71	25-120
Phenol-d6	84	10-120
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	83	30-120
2,4,6-Tribromophenol	49	10-136
4-Terphenyl-d14	87	18-120



Project Name: 805-825 ATLANTIC AVENUE

L1925921-02

WC-03_6-12

BROOKLYN, NY

Project Number: 170384501

SAMPLE RESULTS

Date Collected: 06/14/19 12:05

Date Received: 06/14/19

Extraction Method: EPA 3546

Field Prep: N

Lab Number:

Report Date:

Extraction Date:

Not Specified

06/20/19 03:16

L1925921

08/14/19

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/22/19 01:51

Analyst: RC Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Semivolatile Organics by GC/MS - Westborough Lab								
Acenaphthene	ND		ug/kg	140	18.	1		
Benzidine	ND		ug/kg	580	190	1		
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1		
Hexachlorobenzene	ND		ug/kg	100	20.	1		
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1		
2-Chloronaphthalene	ND		ug/kg	170	17.	1		
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1		
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1		
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1		
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1		
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1		
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1		
Azobenzene	ND		ug/kg	170	17.	1		
Fluoranthene	ND		ug/kg	100	20.	1		
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1		
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1		
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1		
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1		
Hexachlorobutadiene	ND		ug/kg	170	26.	1		
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1		
Hexachloroethane	ND		ug/kg	140	28.	1		
Isophorone	ND		ug/kg	160	23.	1		
Naphthalene	ND		ug/kg	170	21.	1		
Nitrobenzene	ND		ug/kg	160	26.	1		
NDPA/DPA	ND		ug/kg	140	20.	1		
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1		
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1		

ug/kg

170

44.

ND



1

Butyl benzyl phthalate

Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02 Date Collected: 06/14/19 12:05

Client ID: WC-03_6-12 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - We	estborough Lab					
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02 Date Collected: 06/14/19 12:05

Client ID: WC-03_6-12 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS -	Westborough Lab						
Phenol	ND		ug/kg	170	26.	1	
2-Methylphenol	ND		ug/kg	170	27.	1	
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1	
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1	
Benzoic Acid	ND		ug/kg	560	180	1	
Benzyl Alcohol	ND		ug/kg	170	53.	1	
Carbazole	ND		ug/kg	170	17.	1	
Atrazine	ND		ug/kg	140	61.	1	
Benzaldehyde	ND		ug/kg	230	47.	1	
Caprolactam	ND		ug/kg	170	53.	1	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1	
1,4-Dioxane	ND		ug/kg	26	8.0	1	

Tentatively	Identified	Com	pounds
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No Tentatively Identified Compounds ND ug/kg 1

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	68	25-120
Phenol-d6	68	10-120
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	72	30-120
2,4,6-Tribromophenol	72	10-136
4-Terphenyl-d14	72	18-120



L1925921

08/14/19

06/20/19 03:03

Project Name: 805-825 ATLANTIC AVENUE

L1925921-03

WC-03_12-18

BROOKLYN, NY

Project Number: 170384501

SAMPLE RESULTS

Date Collected: 06/14/19 12:25

Date Received: 06/14/19

Extraction Method: EPA 3546

Lab Number:

Report Date:

Extraction Date:

Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil 1,8270D Analytical Method: Analytical Date: 06/21/19 22:38

Analyst: RC 94% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - We	stborough Lab					
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1

ug/kg

ug/kg

ug/kg

180

180

180

27.

61.

44.

ND

ND

ND



1

1

1

n-Nitrosodi-n-propylamine

Bis(2-ethylhexyl)phthalate

Butyl benzyl phthalate

Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03 Date Collected: 06/14/19 12:25

Client ID: WC-03_12-18 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Wes	stborough Lab					
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03 Date Collected: 06/14/19 12:25

Client ID: WC-03_12-18 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS -	Westborough Lab						
Phenol	ND		ug/kg	180	27.	1	
2-Methylphenol	ND		ug/kg	180	27.	1	
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1	
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1	
Benzoic Acid	ND		ug/kg	570	180	1	
Benzyl Alcohol	ND		ug/kg	180	54.	1	
Carbazole	ND		ug/kg	180	17.	1	
Atrazine	ND		ug/kg	140	62.	1	
Benzaldehyde	ND		ug/kg	230	48.	1	
Caprolactam	ND		ug/kg	180	54.	1	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1	
1,4-Dioxane	ND		ug/kg	26	8.1	1	

Tentatively Identified Compounds				
Total TIC Compounds	155	J	ug/kg	1
Unknown	155	J	ug/kg	1

% Recovery	Acceptance Qualifier Criteria	
77	25-120	
79	10-120	
79	23-120	
83	30-120	
82	10-136	
89	18-120	
	77 79 79 83 82	% Recovery Qualifier Criteria 77 25-120 79 10-120 79 23-120 83 30-120 82 10-136



L1925921

08/14/19

Project Name: 805-825 ATLANTIC AVENUE

L1925921-04

WC-03_18-26

BROOKLYN, NY

Project Number: 170384501

SAMPLE RESULTS

Date Collected: 06/14/19 12:00

Date Received: 06/14/19

Lab Number:

Report Date:

Field Prep: Not Specified

Sample Depth:

Sample Location:

Lab ID:

Client ID:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/22/19 03:27

Analyst: RC Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 03:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS - V	Vestborough Lab						
Acenaphthene	18	J	ug/kg	140	18.	1	
Benzidine	ND		ug/kg	560	180	1	
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1	
Hexachlorobenzene	ND		ug/kg	100	19.	1	
Bis(2-chloroethyl)ether	ND		ug/kg	150	23.	1	
2-Chloronaphthalene	ND		ug/kg	170	17.	1	
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1	
1,3-Dichlorobenzene	ND		ug/kg	170	29.	1	
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1	
3,3'-Dichlorobenzidine	ND		ug/kg	170	45.	1	
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1	
2,6-Dinitrotoluene	ND		ug/kg	170	29.	1	
Azobenzene	ND		ug/kg	170	16.	1	
Fluoranthene	190		ug/kg	100	20.	1	
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1	
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1	
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1	
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1	
Hexachlorobutadiene	ND		ug/kg	170	25.	1	
Hexachlorocyclopentadiene	ND		ug/kg	490	150	1	
Hexachloroethane	ND		ug/kg	140	28.	1	
Isophorone	ND		ug/kg	150	22.	1	
Naphthalene	52	J	ug/kg	170	21.	1	
Nitrobenzene	ND		ug/kg	150	25.	1	
NDPA/DPA	ND		ug/kg	140	19.	1	
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1	
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1	
Butyl benzyl phthalate	ND		ug/kg	170	43.	1	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04 Date Collected: 06/14/19 12:00

Client ID: WC-03_18-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS -	Westborough Lab					
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	80	J	ug/kg	100	19.	1
Benzo(a)pyrene	72	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	89	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	35	J	ug/kg	100	27.	1
Chrysene	78	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	39	J	ug/kg	100	33.	1
Benzo(ghi)perylene	43	J	ug/kg	140	20.	1
Fluorene	20	J	ug/kg	170	16.	1
Phenanthrene	180		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	43	J	ug/kg	140	24.	1
Pyrene	160		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	20	J	ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	820	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	82.	1
Pentachlorophenol	ND		ug/kg	140	38.	1



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04 Date Collected: 06/14/19 12:00

Client ID: WC-03_18-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Semivolatile Organics by GC/MS - V	Vestborough Lab						
Phenol	ND		ug/kg	170	26.	1	
2-Methylphenol	ND		ug/kg	170	26.	1	
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	27.	1	
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1	
Benzoic Acid	ND		ug/kg	550	170	1	
Benzyl Alcohol	ND		ug/kg	170	52.	1	
Carbazole	28	J	ug/kg	170	16.	1	
Atrazine	ND		ug/kg	140	60.	1	
Benzaldehyde	ND		ug/kg	220	46.	1	
Caprolactam	ND		ug/kg	170	52.	1	
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.	1	
1,4-Dioxane	ND		ug/kg	26	7.8	1	

Tentatively Identified Compounds				
Total TIC Compounds	938	J	ug/kg	1
Unknown	163	J	ug/kg	1
Unknown	166	J	ug/kg	1
Unknown	202	J	ug/kg	1
Unknown	143	J	ug/kg	1
Unknown	264	J	ug/kg	1

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	75	25-120
Phenol-d6	77	10-120
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	78	30-120
2,4,6-Tribromophenol	72	10-136
4-Terphenyl-d14	81	18-120



Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 06/20/19 16:41 Extraction Date: 06/20/19 02:58

Analyst: JG

Parameter	Result	Qualifier	Units	RL		MDL
Semivolatile Organics by GC/MS	- Westborough	Lab for	sample(s):	01-04	Batch:	WG1250700-1
Acenaphthene	ND		ug/kg	130		17.
Benzidine	ND		ug/kg	550		180
1,2,4-Trichlorobenzene	ND		ug/kg	170		19.
Hexachlorobenzene	ND		ug/kg	100		19.
Bis(2-chloroethyl)ether	ND		ug/kg	150		22.
2-Chloronaphthalene	ND		ug/kg	170		16.
1,2-Dichlorobenzene	ND		ug/kg	170		30.
1,3-Dichlorobenzene	ND		ug/kg	170		28.
1,4-Dichlorobenzene	ND		ug/kg	170		29.
3,3'-Dichlorobenzidine	ND		ug/kg	170		44.
2,4-Dinitrotoluene	ND		ug/kg	170		33.
2,6-Dinitrotoluene	ND		ug/kg	170		28.
Azobenzene	ND		ug/kg	170		16.
Fluoranthene	ND		ug/kg	100		19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170		18.
4-Bromophenyl phenyl ether	ND		ug/kg	170		25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200		28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180		17.
Hexachlorobutadiene	ND		ug/kg	170		24.
Hexachlorocyclopentadiene	ND		ug/kg	480		150
Hexachloroethane	ND		ug/kg	130		27.
Isophorone	ND		ug/kg	150		22.
Naphthalene	ND		ug/kg	170		20.
Nitrobenzene	ND		ug/kg	150		24.
NDPA/DPA	ND		ug/kg	130		19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170		26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170		57.
Butyl benzyl phthalate	ND		ug/kg	170		42.
Di-n-butylphthalate	ND		ug/kg	170		31.



Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 06/20/19 16:41 Extraction Date: 06/20/19 02:58

Analyst: JG

Di-n-octylphthalate	Parameter	Result	Qualifier	Units	RL		MDL
Diethyl phthalate ND ug/kg 170 15. Dimethyl phthalate ND ug/kg 170 35. Benzo(a)anthracene 19 J ug/kg 100 19. Benzo(a)pyrene ND ug/kg 130 40. Benzo(b)fluoranthene ND ug/kg 100 28. Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 26. Chrysene ND ug/kg 100 27. Acenaphthylene ND ug/kg 100 32. Anthracene ND ug/kg 130 26. Anthracene ND ug/kg 130 20. Fluorene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 170 16. Phenanthrene ND ug/kg 130 23. <td>Semivolatile Organics by GC/MS</td> <td>- Westborough</td> <td>Lab for</td> <td>sample(s):</td> <td>01-04</td> <td>Batch:</td> <td>WG1250700-1</td>	Semivolatile Organics by GC/MS	- Westborough	Lab for	sample(s):	01-04	Batch:	WG1250700-1
Dimethyl phthalate ND ug/kg 170 35. Benzo(a)anthracene 19 J ug/kg 100 19. Benzo(a)pyrene ND ug/kg 130 40. Benzo(b)fluoranthene ND ug/kg 100 28. Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 100 32. Benzo(shi)perylene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 29. Indeno(1,2,3-cd)pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380	Di-n-octylphthalate	ND		ug/kg	170		56.
Benzo(a)anthracene 19 J ug/kg 100 19. Benzo(a)pyrene ND ug/kg 130 40. Benzo(b)fluoranthene ND ug/kg 100 28. Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 170 20. Dibenzo(a,h)anthracene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 20. Indeno(1,2,3-cd)pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170<	Diethyl phthalate	ND		ug/kg	170		15.
Benzo(a)pyrene ND ug/kg 130 40. Benzo(b)fluoranthene ND ug/kg 100 28. Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 130 20. Phenanthrene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. <	Dimethyl phthalate	ND		ug/kg	170		35.
Benzo(b)fluoranthene ND ug/kg 100 28. Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69.	Benzo(a)anthracene	19	J	ug/kg	100		19.
Benzo(k)fluoranthene ND ug/kg 100 26. Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 69.	Benzo(a)pyrene	ND		ug/kg	130		40.
Chrysene ND ug/kg 100 17. Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16.	Benzo(b)fluoranthene	ND		ug/kg	100		28.
Acenaphthylene ND ug/kg 130 26. Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 170 17. <t< td=""><td>Benzo(k)fluoranthene</td><td>ND</td><td></td><td>ug/kg</td><td>100</td><td></td><td>26.</td></t<>	Benzo(k)fluoranthene	ND		ug/kg	100		26.
Anthracene ND ug/kg 100 32. Benzo(ghi)perylene ND ug/kg 130 20. Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17.	Chrysene	ND		ug/kg	100		17.
Benzo(ghi)perylene ND	Acenaphthylene	ND		ug/kg	130		26.
Fluorene ND ug/kg 170 16. Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 330 32. 1-Nitrosodimethylamine ND ug/kg 100 31. <td>Anthracene</td> <td>ND</td> <td></td> <td>ug/kg</td> <td>100</td> <td></td> <td>32.</td>	Anthracene	ND		ug/kg	100		32.
Phenanthrene ND ug/kg 100 20. Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 330 32. 1,4,6-Trichlorophenol ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 100	Benzo(ghi)perylene	ND		ug/kg	130		20.
Dibenzo(a,h)anthracene ND ug/kg 100 19. Indeno(1,2,3-cd)pyrene ND ug/kg 130 23. Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170	Fluorene	ND		ug/kg	170		16.
Indeno(1,2,3-cd)pyrene ND	Phenanthrene	ND		ug/kg	100		20.
Pyrene ND ug/kg 100 16. Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Dibenzo(a,h)anthracene	ND		ug/kg	100		19.
Biphenyl ND ug/kg 380 38. 4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Indeno(1,2,3-cd)pyrene	ND		ug/kg	130		23.
4-Chloroaniline ND ug/kg 170 30. 2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Pyrene	ND		ug/kg	100		16.
2-Nitroaniline ND ug/kg 170 32. 3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Biphenyl	ND		ug/kg	380		38.
3-Nitroaniline ND ug/kg 170 31. 4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	4-Chloroaniline	ND		ug/kg	170		30.
4-Nitroaniline ND ug/kg 170 69. Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	2-Nitroaniline	ND		ug/kg	170		32.
Dibenzofuran ND ug/kg 170 16. 2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	3-Nitroaniline	ND		ug/kg	170		31.
2-Methylnaphthalene ND ug/kg 200 20. 1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	4-Nitroaniline	ND		ug/kg	170		69.
1,2,4,5-Tetrachlorobenzene ND ug/kg 170 17. Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Dibenzofuran	ND		ug/kg	170		16.
Acetophenone ND ug/kg 170 20. n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	2-Methylnaphthalene	ND		ug/kg	200		20.
n-Nitrosodimethylamine ND ug/kg 330 32. 2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170		17.
2,4,6-Trichlorophenol ND ug/kg 100 31. p-Chloro-m-cresol ND ug/kg 170 25.	Acetophenone	ND		ug/kg	170		20.
p-Chloro-m-cresol ND ug/kg 170 25.	n-Nitrosodimethylamine	ND		ug/kg	330		32.
	2,4,6-Trichlorophenol	ND		ug/kg	100		31.
2-Chlorophenol ND ug/kg 170 20.	p-Chloro-m-cresol	ND		ug/kg	170		25.
	2-Chlorophenol	ND		ug/kg	170		20.



Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: Report Date:

170384501 08/14/19

> **Method Blank Analysis Batch Quality Control**

Analytical Method: 1,8270D Analytical Date: 06/20/19 16:41

Analyst: JG

Extraction Method: EPA 3546 06/20/19 02:58 **Extraction Date:**

arameter	Result	Qualifier	Units	RL		MDL
emivolatile Organics by GC/MS	S - Westboroug	h Lab for s	ample(s):	01-04	Batch:	WG1250700-1
2,4-Dichlorophenol	ND		ug/kg	150		27.
2,4-Dimethylphenol	ND		ug/kg	170		55.
2-Nitrophenol	ND		ug/kg	360		62.
4-Nitrophenol	ND		ug/kg	230		68.
2,4-Dinitrophenol	ND		ug/kg	800		77.
4,6-Dinitro-o-cresol	ND		ug/kg	430		80.
Pentachlorophenol	ND		ug/kg	130		36.
Phenol	ND		ug/kg	170		25.
2-Methylphenol	ND		ug/kg	170		26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240		26.
2,4,5-Trichlorophenol	ND		ug/kg	170		32.
Benzoic Acid	ND		ug/kg	540		170
Benzyl Alcohol	ND		ug/kg	170		51.
Carbazole	ND		ug/kg	170		16.
Atrazine	ND		ug/kg	130		58.
Benzaldehyde	ND		ug/kg	220		45.
Caprolactam	ND		ug/kg	170		50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170		34.
1,4-Dioxane	ND		ug/kg	25		7.6

Tentatively Identified Compounds

No Tentatively Identified Compounds

ND

ug/kg



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D Extraction Method: EPA 3546
Analytical Date: 06/20/19 16:41 Extraction Date: 06/20/19 02:58

Analyst: JG

ParameterResultQualifierUnitsRLMDLSemivolatile Organics by GC/MS - Westborough Lab for sample(s):01-04Batch:WG1250700-1

Surrogate	%Recovery Qualifi	Acceptance er Criteria
2-Fluorophenol	74	25-120
Phenol-d6	74	10-120
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	70	30-120
2,4,6-Tribromophenol	84	10-136
4-Terphenyl-d14	74	18-120



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	Qual	LCSD %Recove	ery	% Qual	Recovery	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westboroo	ugh Lab Assoc	iated sample(s):	: 01-04 l	Batch:	WG125070	0-2 WG1250	700-3		
Acenaphthene	74		74			31-137	0		50
Benzidine	51		64			10-66	23		50
1,2,4-Trichlorobenzene	72		70			38-107	3		50
Hexachlorobenzene	75		78			40-140	4		50
Bis(2-chloroethyl)ether	71		68			40-140	4		50
2-Chloronaphthalene	72		71			40-140	1		50
1,2-Dichlorobenzene	72		70			40-140	3		50
1,3-Dichlorobenzene	70		67			40-140	4		50
1,4-Dichlorobenzene	70		68			28-104	3		50
3,3'-Dichlorobenzidine	91		91			40-140	0		50
2,4-Dinitrotoluene	73		76			40-132	4		50
2,6-Dinitrotoluene	74		75			40-140	1		50
Azobenzene	74		75			40-140	1		50
Fluoranthene	78		81			40-140	4		50
4-Chlorophenyl phenyl ether	73		74			40-140	1		50
4-Bromophenyl phenyl ether	76		79			40-140	4		50
Bis(2-chloroisopropyl)ether	71		68			40-140	4		50
Bis(2-chloroethoxy)methane	74		72			40-117	3		50
Hexachlorobutadiene	72		72			40-140	0		50
Hexachlorocyclopentadiene	18	Q	19		Q	40-140	5		50
Hexachloroethane	60		57			40-140	5		50
Isophorone	77		73			40-140	5		50
Naphthalene	72		72			40-140	0		50



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	Qual	LCSE %Recov		% Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westbo	orough Lab Associ	ated sample(s):	01-04	Batch:	WG1250700	0-2 WG1250	700-3		
Nitrobenzene	75		74			40-140	1		50
NDPA/DPA	75		78			36-157	4		50
n-Nitrosodi-n-propylamine	79		74			32-121	7		50
Bis(2-ethylhexyl)phthalate	88		89			40-140	1		50
Butyl benzyl phthalate	84		87			40-140	4		50
Di-n-butylphthalate	84		88			40-140	5		50
Di-n-octylphthalate	95		98			40-140	3		50
Diethyl phthalate	73		76			40-140	4		50
Dimethyl phthalate	74		75			40-140	1		50
Benzo(a)anthracene	82		84			40-140	2		50
Benzo(a)pyrene	78		82			40-140	5		50
Benzo(b)fluoranthene	76		77			40-140	1		50
Benzo(k)fluoranthene	78		79			40-140	1		50
Chrysene	75		74			40-140	1		50
Acenaphthylene	76		76			40-140	0		50
Anthracene	78		80			40-140	3		50
Benzo(ghi)perylene	75		76			40-140	1		50
Fluorene	75		77			40-140	3		50
Phenanthrene	74		77			40-140	4		50
Dibenzo(a,h)anthracene	79		80			40-140	1		50
Indeno(1,2,3-cd)pyrene	82		80			40-140	2		50
Pyrene	76		77			35-142	1		50
Biphenyl	68		69			54-104	1		50



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	Qual	LCSD %Recover	ry	%Reco Qual Limi		•	RPD Limits
Semivolatile Organics by GC/MS - Westboro	ugh Lab Assoc	iated sample(s)	: 01-04 B	Batch:	WG1250700-2 W	/G1250700-3		
4-Chloroaniline	76		72		40-14	5		50
2-Nitroaniline	89		90		47-13	4 1		50
3-Nitroaniline	83		81		26-12	9 2		50
4-Nitroaniline	86		87		41-12	5 1		50
Dibenzofuran	73		76		40-14	0 4		50
2-Methylnaphthalene	73		71		40-14	3		50
1,2,4,5-Tetrachlorobenzene	72		71		40-11	7 1		50
Acetophenone	73		69		14-14	4 6		50
n-Nitrosodimethylamine	69		68		22-10	0 1		50
2,4,6-Trichlorophenol	84		84		30-13	0		50
p-Chloro-m-cresol	84		83		26-10	3 1		50
2-Chlorophenol	80		77		25-10	2 4		50
2,4-Dichlorophenol	83		81		30-13	0 2		50
2,4-Dimethylphenol	78		77		30-13	0 1		50
2-Nitrophenol	71		69		30-13	3		50
4-Nitrophenol	85		88		11-11	4 3		50
2,4-Dinitrophenol	14		15		4-130	7		50
4,6-Dinitro-o-cresol	14		16		10-13	0 13		50
Pentachlorophenol	77		81		17-10	9 5		50
Phenol	72		72		26-90	0		50
2-Methylphenol	81		79		30-130). 3		50
3-Methylphenol/4-Methylphenol	81		78		30-13	0 4		50
2,4,5-Trichlorophenol	84		89		30-13	0 6		50



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westb	orough Lab Associa	ited sample(s)	: 01-04 Batch	n: WG12507	00-2 WG12507	′00-3		
Benzoic Acid	23		50		10-110	74	Q	50
Benzyl Alcohol	81		78		40-140	4		50
Carbazole	80		83		54-128	4		50
Atrazine	89		92		40-140	3		50
Benzaldehyde	78		75		40-140	4		50
Caprolactam	80		83		15-130	4		50
2,3,4,6-Tetrachlorophenol	80		81		40-140	1		50
1,4-Dioxane	56		56		40-140	0		50

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qu	ual %Recovery Q	ual Criteria
2-Fluorophenol	81	78	25-120
Phenol-d6	80	78	10-120
Nitrobenzene-d5	83	79	23-120
2-Fluorobiphenyl	75	77	30-120
2,4,6-Tribromophenol	89	91	10-136
4-Terphenyl-d14	79	80	18-120

PCBS



Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/14/19 12:15
Client ID: WC-03 0-6 Date Received: 06/14/19

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 06/20/19 05:39
Analytical Date: 06/20/19 22:51 Cleanup Method: EPA 3665A

Analyst: KB Cleanup Date: 06/20/19
Percent Solids: 91% Cleanup Method: EPA 3660B
Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - We	stborough Lab						
Aroclor 1016	ND		ug/kg	35.8	3.18	11	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	Α
Aroclor 1232	ND		ug/kg	35.8	7.60	1	Α
Aroclor 1242	ND		ug/kg	35.8	4.83	1	Α
Aroclor 1248	ND		ug/kg	35.8	5.38	1	Α
Aroclor 1254	ND		ug/kg	35.8	3.92	1	Α
Aroclor 1260	ND		ug/kg	35.8	6.62	1	Α
Aroclor 1262	ND		ug/kg	35.8	4.55	1	Α
Aroclor 1268	ND		ug/kg	35.8	3.71	1	Α
PCBs, Total	ND		ug/kg	35.8	3.18	1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	Α
Decachlorobiphenyl	72		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	62		30-150	В
Decachlorobiphenyl	69		30-150	В

Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/14/19 12:05

Client ID: WC-03 6-12

Date Received: 06/14/19

Client ID: WC-03_6-12 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 06/20/19 05:39
Analytical Date: 06/20/19 23:04 Cleanup Method: EPA 3665A

Analyst: KB Cleanup Date: 06/20/19
Percent Solids: 94% Cleanup Method: EPA 3660B
Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC	- Westborough Lab						
Aroclor 1016	ND		ug/kg	33.7	2.99	1	А
Aroclor 1221	ND		ug/kg	33.7	3.38	1	Α
Aroclor 1232	ND		ug/kg	33.7	7.15	1	Α
Aroclor 1242	ND		ug/kg	33.7	4.54	1	Α
Aroclor 1248	ND		ug/kg	33.7	5.06	1	Α
Aroclor 1254	ND		ug/kg	33.7	3.69	1	Α
Aroclor 1260	ND		ug/kg	33.7	6.23	1	Α
Aroclor 1262	ND		ug/kg	33.7	4.28	1	Α
Aroclor 1268	ND		ug/kg	33.7	3.49	1	Α
PCBs, Total	ND		ug/kg	33.7	2.99	1	Α

Surrogate	9/ Bassyany	Ovalities	Acceptance	Caluman
	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	Α
Decachlorobiphenyl	72		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	63		30-150	В
Decachlorobiphenyl	71		30-150	В



Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-03
 Date Collected:
 06/14/19 12:25

 Client ID:
 WC-03_12-18
 Date Received:
 06/14/19

Client ID: WC-03_12-18 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 06/20/19 05:39
Analytical Date: 06/20/19 23:16 Cleanup Method: EPA 3665A

Analytical Date: 06/20/19 23:16

Analyst: KB

Percent Solids: 94%

Cleanup Method: EPA 3665A

Cleanup Date: 06/20/19

Cleanup Method: EPA 3660B

Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - We	stborough Lab						
Aroclor 1016	ND		ug/kg	34.7	3.08	1	А
Aroclor 1221	ND		ug/kg	34.7	3.48	1	Α
Aroclor 1232	ND		ug/kg	34.7	7.36	1	Α
Aroclor 1242	ND		ug/kg	34.7	4.68	1	Α
Aroclor 1248	ND		ug/kg	34.7	5.21	1	Α
Aroclor 1254	ND		ug/kg	34.7	3.80	1	А
Aroclor 1260	ND		ug/kg	34.7	6.42	1	А
Aroclor 1262	ND		ug/kg	34.7	4.41	1	А
Aroclor 1268	ND		ug/kg	34.7	3.60	1	А
PCBs, Total	ND		ug/kg	34.7	3.08	1	Α

			Acceptance		
Surrogate	% Recovery	Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	64		30-150	Α	
Decachlorobiphenyl	77		30-150	Α	
2,4,5,6-Tetrachloro-m-xylene	68		30-150	В	
Decachlorobiphenyl	78		30-150	В	



Project Name: 805-825 ATLANTIC AVENUE **Lab Number:** L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04 Date Collected: 06/14/19 12:00

Client ID: WC-03_18-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8082A Extraction Date: 06/20/19 05:39
Analytical Date: 06/20/19 23:29 Cleanup Method: EPA 3665A

Analyst: KB Cleanup Date: 06/20/19
Percent Solids: 96% Cleanup Date: 06/20/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Wes	stborough Lab						
Aroclor 1016	ND		ug/kg	33.4	2.97	1	А
Aroclor 1221	ND		ug/kg	33.4	3.35	1	Α
Aroclor 1232	ND		ug/kg	33.4	7.08	1	Α
Aroclor 1242	ND		ug/kg	33.4	4.50	1	Α
Aroclor 1248	ND		ug/kg	33.4	5.01	1	Α
Aroclor 1254	ND		ug/kg	33.4	3.66	1	Α
Aroclor 1260	ND		ug/kg	33.4	6.17	1	Α
Aroclor 1262	ND		ug/kg	33.4	4.24	1	Α
Aroclor 1268	ND		ug/kg	33.4	3.46	1	Α
PCBs, Total	ND		ug/kg	33.4	2.97	1	Α

Surrogata	0/ Danassams	Ovelities	Acceptance	0 - 1
Surrogate	% Recovery	Qualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	Α
Decachlorobiphenyl	71		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	63		30-150	В
Decachlorobiphenyl	67		30-150	В



Project Name: 805-825 ATLANTIC AVENUE Lab Number:

Project Number: 170384501 **Report Date:** 08/14/19

sthad Blank Analysis

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A Analytical Date: 06/20/19 02:00

Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/19/19 12:35
Cleanup Method: EPA 3665A
Cleanup Date: 06/19/19
Cleanup Method: EPA 3660B
Cleanup Date: 06/19/19

Parameter	Result	Qualifier	Units	RL		MDL	Column
Polychlorinated Biphenyls by GC - V	Westborough	n Lab for s	ample(s):	01-04	Batch:	WG12	50458-1
Aroclor 1016	ND		ug/kg	32.7		2.90	А
Aroclor 1221	ND		ug/kg	32.7		3.27	Α
Aroclor 1232	ND		ug/kg	32.7		6.93	Α
Aroclor 1242	ND		ug/kg	32.7		4.40	Α
Aroclor 1248	ND		ug/kg	32.7		4.90	А
Aroclor 1254	ND		ug/kg	32.7		3.58	Α
Aroclor 1260	ND		ug/kg	32.7		6.04	Α
Aroclor 1262	ND		ug/kg	32.7		4.15	Α
Aroclor 1268	ND		ug/kg	32.7		3.38	Α
PCBs, Total	ND		ug/kg	32.7		2.90	А

		Α	cceptanc	е
Surrogate	%Recovery Q	ualifier	Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	Α
Decachlorobiphenyl	55		30-150	Α
2,4,5,6-Tetrachloro-m-xylene	72		30-150	В
Decachlorobiphenyl	69		30-150	В



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Lab Number:

L1925921

Report Date:

08/14/19

Danamatan	LCS	Overl	LCSD %Recovery	Over	%Recovery	222	0	RPD	0
Parameter	%Recovery	Qual	76Recovery	Qual	Limits	RPD	Qual	Limits	Column
Polychlorinated Biphenyls by GC - Westbe	orough Lab Associa	ted sample(s)	: 01-04 Batch:	WG1250	458-2 WG12504	58-3			
Aroclor 1016	72		70		40-140	3		50	Α
Aroclor 1260	61		60		40-140	2		50	Α

Surrogate	LCS %Recovery Q	LCSD Qual %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	67	66	30-150 A
Decachlorobiphenyl	56	56	30-150 A
2,4,5,6-Tetrachloro-m-xylene	73	70	30-150 B
Decachlorobiphenyl	70	70	30-150 B

PESTICIDES



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01 Date Collected: 06/14/19 12:15

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8081B Extraction Date: 06/20/19 05:41
Analytical Date: 06/21/19 15:43 Cleanup Method: EPA 3620B

Analytical Date: 06/21/19 15:43 Cleanup Method: EPA 3620
Analyst: AMC Cleanup Date: 06/21/19
Percent Solids: 91%

Delta-BHC ND ug/kg 1.71 0.334 Lindane ND ug/kg 0.712 0.318 Alpha-BHC ND ug/kg 0.712 0.202 Beta-BHC ND ug/kg 1.71 0.648 Heptachlor ND ug/kg 1.71 0.648 Aldrin ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.71 0.395 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 1.71 0.404	1 1	A A
Lindane ND ug/kg 0.712 0.318 Alpha-BHC ND ug/kg 0.712 0.202 Beta-BHC ND ug/kg 1.71 0.648 Heptachlor ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.71 0.440 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 1.71 0.404 Endosulfan I ND ug/kg 1.71 0.571	1	
Lindane ND ug/kg 0.712 0.318 Alpha-BHC ND ug/kg 0.712 0.202 Beta-BHC ND ug/kg 1.71 0.648 Heptachlor ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.71 0.395 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 1.71 0.404 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.5571		Α
Alpha-BHC ND ug/kg 0.712 0.202 Beta-BHC ND ug/kg 1.71 0.648 Heptachlor ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	
Beta-BHC ND ug/kg 1.71 0.648 Heptachlor ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 1.71 0.440 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.71 0.395 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571		Α
Heptachlor ND ug/kg 0.854 0.383 Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.609 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Aldrin ND ug/kg 1.71 0.602 Heptachlor epoxide ND ug/kg 3.20 0.961 Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Endrin ND ug/kg 0.712 0.292 Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Endrin aldehyde ND ug/kg 2.14 0.747 Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Endrin ketone ND ug/kg 1.71 0.440 Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Dieldrin ND ug/kg 1.07 0.534 4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
4,4'-DDE ND ug/kg 1.71 0.395 4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
4,4'-DDD ND ug/kg 1.71 0.609 4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
4,4'-DDT ND ug/kg 3.20 1.37 Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Endosulfan I ND ug/kg 1.71 0.404 Endosulfan II ND ug/kg 1.71 0.571	1	Α
Endosulfan II ND ug/kg 1.71 0.571	1	А
***************************************	1	А
	1	Α
Endosulfan sulfate ND ug/kg 0.712 0.339	1	А
Methoxychlor ND ug/kg 3.20 0.996	1	А
Toxaphene ND ug/kg 32.0 8.97	1	Α
cis-Chlordane ND ug/kg 2.14 0.595	1	А
trans-Chlordane ND ug/kg 2.14 0.564	1	Α
Chlordane ND ug/kg 13.9 5.66	1	Α



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: 06/14/19 12:15

Client ID: WC-03_0-6 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	В
Decachlorobiphenyl	253	Q	30-150	В
2,4,5,6-Tetrachloro-m-xylene	80		30-150	Α
Decachlorobiphenyl	117		30-150	Α



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Report Date: **Project Number:** 170384501 08/14/19

SAMPLE RESULTS

06/20/19 17:38

Date Collected: 06/14/19 12:15

Lab ID: L1925921-01 Date Received: Client ID: WC-03_0-6 06/14/19 Sample Location: Field Prep: BROOKLYN, NY Not Specified

Sample Depth:

Extraction Method: EPA 8151A Matrix: Soil **Extraction Date:** 06/17/19 11:57 Analytical Method: 1,8151A

Analytical Date: Analyst: DGM 91% Percent Solids:

Methylation Date: 06/18/19 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column		
Chlorinated Herbicides by GC - Westborough Lab									
2,4-D	ND		ug/kg	182	11.4	1	Α		
2,4,5-T	ND		ug/kg	182	5.63	1	А		
2,4,5-TP (Silvex)	ND		ug/kg	182	4.83	1	Α		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	Α
DCAA	85		30-150	В



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02 Date Collected: 06/14/19 12:05

Client ID: WC-03_6-12 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8081B Extraction Date: 06/20/19 05:41

Analytical Date: 06/21/19 15:55 Cleanup Method: EPA 3620B
Analyst: AMC Cleanup Date: 06/21/19

Analyst: AMC Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC	- Westborough Lab						
Delta-BHC	ND		ug/kg	1.62	0.317	1	Α
Lindane	ND		ug/kg	0.675	0.302	1	Α
Alpha-BHC	ND		ug/kg	0.675	0.192	1	Α
Beta-BHC	ND		ug/kg	1.62	0.614	1	Α
Heptachlor	ND		ug/kg	0.810	0.363	1	Α
Aldrin	ND		ug/kg	1.62	0.570	1	Α
Heptachlor epoxide	ND		ug/kg	3.04	0.911	1	Α
Endrin	ND		ug/kg	0.675	0.277	1	Α
Endrin aldehyde	ND		ug/kg	2.02	0.709	1	Α
Endrin ketone	ND		ug/kg	1.62	0.417	1	Α
Dieldrin	ND		ug/kg	1.01	0.506	1	Α
4,4'-DDE	ND		ug/kg	1.62	0.375	1	Α
4,4'-DDD	ND		ug/kg	1.62	0.578	1	Α
4,4'-DDT	ND		ug/kg	3.04	1.30	1	Α
Endosulfan I	ND		ug/kg	1.62	0.383	1	Α
Endosulfan II	ND		ug/kg	1.62	0.541	1	Α
Endosulfan sulfate	ND		ug/kg	0.675	0.321	1	Α
Methoxychlor	ND		ug/kg	3.04	0.945	1	Α
Toxaphene	ND		ug/kg	30.4	8.51	1	Α
cis-Chlordane	ND		ug/kg	2.02	0.564	1	Α
trans-Chlordane	ND		ug/kg	2.02	0.535	1	Α
Chlordane	ND		ug/kg	13.2	5.37	1	Α



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02 Date Collected: 06/14/19 12:05

Client ID: WC-03_6-12 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	В
Decachlorobiphenyl	89		30-150	В
2,4,5,6-Tetrachloro-m-xylene	82		30-150	Α
Decachlorobiphenyl	101		30-150	Α



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Report Date: **Project Number:** 170384501 08/14/19

SAMPLE RESULTS

06/20/19 17:57

Lab ID: Date Collected: 06/14/19 12:05 L1925921-02

Date Received: Client ID: WC-03_6-12 06/14/19 Sample Location: Field Prep: BROOKLYN, NY Not Specified

Sample Depth:

Extraction Method: EPA 8151A Matrix: Soil **Extraction Date:** 06/17/19 11:57 Analytical Method: 1,8151A

Analytical Date: Analyst: DGM 94% Percent Solids:

Methylation Date: 06/18/19 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - We	stborough Lab						
2,4-D	ND		ug/kg	171	10.8	1	Α
2,4,5-T	ND		ug/kg	171	5.30	1	Α
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	А

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	Α
DCAA	90		30-150	В



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03 Date Collected: 06/14/19 12:25

Client ID: WC-03_12-18 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Extraction Method: EPA 3546
Analytical Method: 1,8081B Extraction Date: 06/20/19 05:41

Analytical Date: 06/21/19 16:06 Cleanup Method: EPA 3620B
Analyst: AMC Cleanup Date: 06/21/19

Analyst: AMC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - \	Westborough Lab						
Delta-BHC	ND		ug/kg	1.63	0.320	1	Α
Lindane	ND		ug/kg	0.680	0.304	1	Α
Alpha-BHC	ND		ug/kg	0.680	0.193	1	Α
Beta-BHC	ND		ug/kg	1.63	0.619	1	Α
Heptachlor	ND		ug/kg	0.816	0.366	1	Α
Aldrin	ND		ug/kg	1.63	0.575	1	Α
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	Α
Endrin	ND		ug/kg	0.680	0.279	1	Α
Endrin aldehyde	ND		ug/kg	2.04	0.714	1	Α
Endrin ketone	ND		ug/kg	1.63	0.420	1	Α
Dieldrin	ND		ug/kg	1.02	0.510	1	Α
4,4'-DDE	ND		ug/kg	1.63	0.378	1	Α
4,4'-DDD	ND		ug/kg	1.63	0.582	1	Α
4,4'-DDT	ND		ug/kg	3.06	1.31	1	Α
Endosulfan I	ND		ug/kg	1.63	0.386	1	Α
Endosulfan II	ND		ug/kg	1.63	0.546	1	Α
Endosulfan sulfate	ND		ug/kg	0.680	0.324	1	Α
Methoxychlor	ND		ug/kg	3.06	0.953	1	Α
Toxaphene	ND		ug/kg	30.6	8.57	1	Α
cis-Chlordane	ND		ug/kg	2.04	0.569	1	Α
trans-Chlordane	ND		ug/kg	2.04	0.539	1	Α
Chlordane	ND		ug/kg	13.3	5.41	1	Α



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03 Date Collected: 06/14/19 12:25

Client ID: WC-03_12-18 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	В
Decachlorobiphenyl	40		30-150	В
2,4,5,6-Tetrachloro-m-xylene	38		30-150	Α
Decachlorobiphenyl	51		30-150	Α



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Report Date: **Project Number:** 170384501 08/14/19

SAMPLE RESULTS

06/20/19 18:16

Lab ID: Date Collected: 06/14/19 12:25 L1925921-03

Date Received: Client ID: WC-03_12-18 06/14/19 Sample Location: Field Prep: BROOKLYN, NY Not Specified

Sample Depth:

Extraction Method: EPA 8151A Matrix: Soil **Extraction Date:** 06/17/19 11:57 Analytical Method: 1,8151A

Analytical Date: Analyst: DGM 94% Percent Solids:

Methylation Date: 06/18/19 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Wes	stborough Lab						
2,4-D	ND		ug/kg	172	10.8	1	Α
2,4,5-T	ND		ug/kg	172	5.34	1	Α
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	Α
DCAA	78		30-150	В



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: Report Date: 170384501 08/14/19

SAMPLE RESULTS

L1925921-04 Lab ID: Date Collected: 06/14/19 12:00

Client ID: WC-03 18-26 Date Received: 06/14/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Percent Solids:

Extraction Method: EPA 3546 Matrix: Soil **Extraction Date:** 06/20/19 05:41 Analytical Method: 1,8081B Cleanup Method: **EPA 3620B**

Analytical Date: 06/21/19 16:18 Cleanup Date: 06/21/19 Analyst: **AMC** 96%

Qualifier Result Units RL MDL **Dilution Factor** Column **Parameter** Organochlorine Pesticides by GC - Westborough Lab Delta-BHC ND ug/kg 1.66 0.325 1 Α Lindane ND 0.691 0.309 Α ug/kg Alpha-BHC ND ug/kg 0.691 0.196 1 Α Beta-BHC ND ug/kg 1.66 0.629 1 Α Heptachlor ND ug/kg 0.830 0.372 1 Α Aldrin ND ug/kg 1.66 0.584 1 Α ND 0.933 1 Α Heptachlor epoxide ug/kg 3.11 Endrin ND 0.691 0.283 1 Α ug/kg ND 1 Endrin aldehyde ug/kg 2.07 0.726 Α ND Endrin ketone 1.66 0.427 1 Α ug/kg Dieldrin ND 1.04 0.518 1 Α ug/kg 4,4'-DDE ND 1.66 0.384 1 ug/kg Α 4,4'-DDD ND 0.592 Α 1.66 1 ug/kg 4,4'-DDT ND ug/kg 3.11 1.33 1 Α Endosulfan I ND 1.66 0.392 1 ug/kg Α Endosulfan II ND 1.66 0.554 1 Α ug/kg Endosulfan sulfate ND ug/kg 0.691 0.329 1 Α ND 1 Methoxychlor 3.11 0.968 Α ug/kg Toxaphene ND 31.1 8.71 1 Α ug/kg cis-Chlordane ND 2.07 0.578 1 Α ug/kg trans-Chlordane ND 2.07 0.548 1 Α ug/kg Chlordane ND ug/kg 13.5 5.50 1 Α



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04 Date Collected: 06/14/19 12:00

Client ID: WC-03_18-26 Date Received: 06/14/19
Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter Result Qualifier Units RL MDL Dilution Factor Column

Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	В
Decachlorobiphenyl	77		30-150	В
2,4,5,6-Tetrachloro-m-xylene	74		30-150	Α
Decachlorobiphenyl	87		30-150	Α



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Report Date: **Project Number:** 170384501 08/14/19

SAMPLE RESULTS

06/20/19 18:35

Lab ID: Date Collected: 06/14/19 12:00 L1925921-04

Date Received: Client ID: WC-03_18-26 06/14/19 Sample Location: Field Prep: BROOKLYN, NY Not Specified

Sample Depth:

Analytical Date:

Extraction Method: EPA 8151A Matrix: Soil **Extraction Date:** 06/17/19 11:57 Analytical Method: 1,8151A

Analyst: DGM 96% Percent Solids:

Methylation Date: 06/18/19 03:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Wes	tborough Lab						
2,4-D	ND		ug/kg	170	10.7	1	Α
2,4,5-T	ND		ug/kg	170	5.27	1	Α
2,4,5-TP (Silvex)	ND		ug/kg	170	4.52	1	Α

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	Α
DCAA	94		30-150	В



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8151A Analytical Date: 06/18/19 04:11

Analyst: DGM

Methylation Date: 06/17/19 11:01

Extraction Method: EPA 8151A Extraction Date: 06/16/19 23:38

Parameter	Result	Qualifier	Units	I	RL	MDL	Column
Chlorinated Herbicides by GC - W	estborough L	₋ab for sam	ple(s):	01-04	Batch:	WG1249450-	1
2,4-D	ND		ug/kg	1	61	10.2	Α
2,4,5-T	ND		ug/kg	1	61	5.00	Α
2,4,5-TP (Silvex)	ND		ug/kg	1	61	4.29	Α

		Acceptance	e
Surrogate	%Recovery Qualifier	Criteria	Column
DCAA	93	30-150	Α
DCAA	84	30-150	В



Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 06/20/19 09:20

Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 06/19/19 11:48
Cleanup Method: EPA 3620B
Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL		MDL	Column
Organochlorine Pesticides by	GC - Westboroug	h Lab for	sample(s):	01-04	Batch:	WG12	50433-1
Delta-BHC	ND		ug/kg	1.54		0.302	А
Lindane	ND		ug/kg	0.642		0.287	Α
Alpha-BHC	ND		ug/kg	0.642		0.182	Α
Beta-BHC	ND		ug/kg	1.54		0.584	Α
Heptachlor	ND		ug/kg	0.770		0.345	Α
Aldrin	ND		ug/kg	1.54		0.542	Α
Heptachlor epoxide	ND		ug/kg	2.89		0.866	Α
Endrin	ND		ug/kg	0.642		0.263	Α
Endrin aldehyde	ND		ug/kg	1.92		0.674	Α
Endrin ketone	ND		ug/kg	1.54		0.397	А
Dieldrin	ND		ug/kg	0.963		0.481	Α
4,4'-DDE	ND		ug/kg	1.54		0.356	Α
4,4'-DDD	ND		ug/kg	1.54		0.549	Α
4,4'-DDT	ND		ug/kg	2.89		1.24	Α
Endosulfan I	ND		ug/kg	1.54		0.364	Α
Endosulfan II	ND		ug/kg	1.54		0.515	Α
Endosulfan sulfate	ND		ug/kg	0.642		0.306	Α
Methoxychlor	ND		ug/kg	2.89		0.898	Α
Toxaphene	ND		ug/kg	28.9		8.09	Α
cis-Chlordane	ND		ug/kg	1.92		0.536	А
trans-Chlordane	ND		ug/kg	1.92		0.508	А
Chlordane	ND		ug/kg	12.5		5.10	А



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B Analytical Date: 06/20/19 09:20

Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 06/19/19 11:48
Cleanup Method: EPA 3620B
Cleanup Date: 06/20/19

Parameter	Result	Qualifier	Units	RL		MDL	Column
Organochlorine Pesticides by GC -	Westboroug	gh Lab for s	sample(s):	01-04	Batch:	WG125	50433-1

		Acceptance			
Surrogate	%Recovery	Qualifier	Criteria	Column	
2,4,5,6-Tetrachloro-m-xylene	68		30-150	В	
Decachlorobiphenyl	84		30-150	В	
2,4,5,6-Tetrachloro-m-xylene	72		30-150	Α	
Decachlorobiphenyl	86		30-150	Α	



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Parameter	LCS %Recovery	Qual	_	SD covery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westbo	rough Lab Associated	d sample(s):	01-04	Batch:	WG1249450-2	WG1249450-3	3			
2,4-D	106		1	107		30-150	1		30	Α
2,4,5-T	103		1	103		30-150	0		30	А
2,4,5-TP (Silvex)	114		1	111		30-150	3		30	А

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA DCAA	98 92		98 92		30-150 30-150	A B



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	LCSD Qual %Recove	%Recovery ry Qual Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westboro	ugh Lab Assoc	siated sample(s): 01-04	Batch: WG1250433-2 WG125	50433-3			
Delta-BHC	74	54	30-150	31	Q	30	Α
Lindane	74	56	30-150	28		30	А
Alpha-BHC	78	56	30-150	33	Q	30	А
Beta-BHC	69	52	30-150	28		30	А
Heptachlor	82	51	30-150	47	Q	30	А
Aldrin	75	46	30-150	48	Q	30	А
Heptachlor epoxide	75	47	30-150	46	Q	30	А
Endrin	77	49	30-150	44	Q	30	А
Endrin aldehyde	52	35	30-150	39	Q	30	А
Endrin ketone	62	42	30-150	38	Q	30	А
Dieldrin	79	48	30-150	49	Q	30	А
4,4'-DDE	72	43	30-150	50	Q	30	А
4,4'-DDD	74	45	30-150	49	Q	30	Α
4,4'-DDT	76	46	30-150	49	Q	30	А
Endosulfan I	69	43	30-150	46	Q	30	А
Endosulfan II	68	43	30-150	45	Q	30	А
Endosulfan sulfate	49	35	30-150	33	Q	30	А
Methoxychlor	82	53	30-150	43	Q	30	А
cis-Chlordane	66	45	30-150	38	Q	30	А
trans-Chlordane	58	46	30-150	23		30	А



Project Name: 805-825 ATLANTIC AVENUE

Lab Number:

L1925921

Project Number: 170384501

Report Date:

08/14/19

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

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1250433-2 WG1250433-3

Surrogate	LCS %Recovery Qua	LCSD al %Recovery Qual	Acceptance Criteria Column
2,4,5,6-Tetrachloro-m-xylene	66	53	30-150 B
Decachlorobiphenyl	76	84	30-150 B
2,4,5,6-Tetrachloro-m-xylene	69	53	30-150 A
Decachlorobiphenyl	86	70	30-150 A

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921 08/14/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: L1925921-01 06/14/19 12:15 Client ID: WC-03_0-6 Date Received: 06/14/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/28/19 06:04

Matrix: Soil 91% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.044 mg/l 0.500 0.027 1 07/06/19 18:22 07/08/19 14:29 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921 **Report Date:** 08/14/19

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L1925921-01 Date Collected: 06/14/19 12:15 Date Received: 06/14/19

Client ID: WC-03_0-6 BROOKLYN, NY Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

91% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Aluminum, Total	8470		mg/kg	8.44	2.28	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.22	0.321	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Arsenic, Total	3.54		mg/kg	0.844	0.176	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Barium, Total	80.2		mg/kg	0.844	0.147	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Beryllium, Total	0.211	J	mg/kg	0.422	0.028	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Cadmium, Total	0.490	J	mg/kg	0.844	0.083	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Calcium, Total	7470		mg/kg	8.44	2.95	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Chromium, Total	14.8		mg/kg	0.844	0.081	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Cobalt, Total	5.98		mg/kg	1.69	0.140	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Copper, Total	18.1		mg/kg	0.844	0.218	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Iron, Total	13500		mg/kg	4.22	0.762	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Lead, Total	179		mg/kg	4.22	0.226	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Magnesium, Total	2560		mg/kg	8.44	1.30	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Manganese, Total	348		mg/kg	0.844	0.134	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Mercury, Total	0.183		mg/kg	0.088	0.058	1	06/20/19 19:00	06/20/19 23:06	EPA 7471B	1,7471B	EA
Nickel, Total	20.5		mg/kg	2.11	0.204	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Potassium, Total	598		mg/kg	211	12.2	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.69	0.218	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.844	0.239	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Sodium, Total	216		mg/kg	169	2.66	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.69	0.266	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Vanadium, Total	22.0		mg/kg	0.844	0.171	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
Zinc, Total	62.4		mg/kg	4.22	0.247	2	06/20/19 21:06	06/24/19 17:19	EPA 3050B	1,6010D	LC
General Chemistry	- Mansfie	ld Lab									
Chromium, Trivalent	15		mg/kg	0.88	0.88	1		06/24/19 17:19	NA	107,-	



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Project Number: 170384501

L1925921-02

Report Date:

08/14/19

SAMPLE RESULTS Lab ID:

Date Collected:

Field Prep:

06/14/19 12:05

Client ID: WC-03_6-12 BROOKLYN, NY Sample Location:

Date Received: 06/14/19 Not Specified

Sample Depth:

Matrix:

Soil

94% Percent Solids:

Percent Solids:	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mans	sfield Lab										
Aluminum, Total	6540		mg/kg	8.23	2.22	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.12	0.313	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Arsenic, Total	1.66		mg/kg	0.823	0.171	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Barium, Total	46.1		mg/kg	0.823	0.143	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.412	0.027	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Cadmium, Total	0.477	J	mg/kg	0.823	0.081	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Calcium, Total	1310		mg/kg	8.23	2.88	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Chromium, Total	17.3		mg/kg	0.823	0.079	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Cobalt, Total	6.53		mg/kg	1.65	0.137	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Copper, Total	20.2		mg/kg	0.823	0.212	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Iron, Total	12700		mg/kg	4.12	0.743	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Lead, Total	6.46		mg/kg	4.12	0.220	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Magnesium, Total	2450		mg/kg	8.23	1.27	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Manganese, Total	321		mg/kg	0.823	0.131	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.069	0.045	1	06/20/19 19:00	06/20/19 23:08	EPA 7471B	1,7471B	EA
Nickel, Total	34.4		mg/kg	2.06	0.199	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Potassium, Total	960		mg/kg	206	11.8	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.65	0.212	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.823	0.233	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Sodium, Total	220		mg/kg	165	2.59	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.65	0.259	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Vanadium, Total	28.7		mg/kg	0.823	0.167	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
Zinc, Total	29.0		mg/kg	4.12	0.241	2	06/20/19 21:06	06/24/19 17:24	EPA 3050B	1,6010D	LC
General Chemistry	- Mansfie	ld Lab									
Chromium, Trivalent	17		mg/kg	0.85	0.85	1		06/24/19 17:24	NA	107,-	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-03
 Date Collected:
 06/14/19 12:25

 Client ID:
 WC-03_12-18
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 94%

Percent Solids: Dilution Date Date Prep **Analytical** Method Qualifier Factor **Prepared** Analyzed Method Parameter Result Units RL MDL Analyst Total Metals - Mansfield Lab Aluminum, Total 5030 mg/kg 8.27 2.23 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC ND 2 1,6010D LC Antimony, Total mg/kg 4.13 0.314 06/20/19 21:06 06/24/19 17:28 EPA 3050B Arsenic, Total 1.31 mg/kg 0.827 0.172 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC 2 Barium, Total 29.3 0.827 0.144 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC mg/kg ND 0.027 2 1,6010D LC Beryllium, Total mg/kg 0.413 06/20/19 21:06 06/24/19 17:28 EPA 3050B J 0.422 0.081 2 1,6010D LC Cadmium, Total mg/kg 0.827 06/20/19 21:06 06/24/19 17:28 EPA 3050B Calcium, Total 1440 8.27 2.89 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D mg/kg LC 2 1,6010D LC 16.1 0.827 0.079 06/20/19 21:06 06/24/19 17:28 EPA 3050B Chromium, Total mg/kg 2 1,6010D LC Cobalt, Total 6.18 mg/kg 1.65 0.137 06/20/19 21:06 06/24/19 17:28 EPA 3050B Copper, Total 16.8 0.827 0.213 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC mg/kg 11300 2 1,6010D LC 0.747 06/20/19 21:06 06/24/19 17:28 EPA 3050B Iron, Total mg/kg 4.13 7.42 2 Lead, Total mg/kg 4.13 0.222 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC Magnesium, Total 2750 8.27 1.27 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC mg/kg 2 1,6010D LC Manganese, Total 263 mg/kg 0.827 0.131 06/20/19 21:06 06/24/19 17:28 EPA 3050B Mercury, Total ND mg/kg 0.080 0.052 1 06/20/19 19:00 06/20/19 23:10 EPA 7471B 1,7471B EΑ Nickel, Total 32.6 2.07 0.200 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC mg/kg 954 2 1,6010D LC Potassium, Total mg/kg 207 11.9 06/20/19 21:06 06/24/19 17:28 EPA 3050B Selenium, Total ND mg/kg 1.65 0.213 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC Silver, Total ND mg/kg 0.827 0.234 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC J Sodium, Total 117 mg/kg 165 2.60 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC Thallium, Total ND mg/kg 1.65 0.260 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC Vanadium, Total 25.5 0.827 2 06/20/19 21:06 06/24/19 17:28 EPA 3050B 1,6010D LC mg/kg 0.168 2 1,6010D LC 29.9 0.242 Zinc, Total mg/kg 4.13 06/20/19 21:06 06/24/19 17:28 EPA 3050B General Chemistry - Mansfield Lab 107,-Chromium, Trivalent 16 mg/kg 0.85 0.85 1 06/24/19 17:28 NA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921 **Report Date:** 08/14/19

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L1925921-04 Date Collected: 06/14/19 12:00 Client ID: WC-03_18-26 Date Received: 06/14/19 Field Prep: Sample Location: BROOKLYN, NY Not Specified

Sample Depth:

Matrix: Soil 96% Percent Solids:

Dilution Date Date Prep **Analytical** Method Qualifier Factor **Prepared** Analyzed Method Parameter Result Units MDL RL Analyst Total Metals - Mansfield Lab Aluminum, Total 6210 mg/kg 8.14 2.20 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC ND 4.07 0.309 2 1,6010D LC Antimony, Total mg/kg 06/20/19 21:06 06/24/19 17:33 EPA 3050B Arsenic, Total 1.38 mg/kg 0.814 0.169 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC 2 Barium, Total 33.1 0.814 0.142 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg ND 0.027 2 1,6010D LC Beryllium, Total mg/kg 0.407 06/20/19 21:06 06/24/19 17:33 EPA 3050B J 0.080 2 1,6010D LC Cadmium, Total 0.497 mg/kg 0.814 06/20/19 21:06 06/24/19 17:33 EPA 3050B Calcium, Total 3010 8.14 2.85 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D mg/kg LC 2 1,6010D LC 24.3 0.814 0.078 06/20/19 21:06 06/24/19 17:33 EPA 3050B Chromium, Total mg/kg 2 1,6010D LC Cobalt, Total 7.42 mg/kg 1.63 0.135 06/20/19 21:06 06/24/19 17:33 EPA 3050B Copper, Total 27.5 0.814 0.210 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg 0.735 2 1,6010D LC 12900 4.07 06/20/19 21:06 06/24/19 17:33 EPA 3050B Iron, Total mg/kg 2 Lead, Total 14.9 mg/kg 4.07 0.218 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC 8.14 Magnesium, Total 4070 1.25 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg 0.129 2 1,6010D LC Manganese, Total 359 mg/kg 0.814 06/20/19 21:06 06/24/19 17:33 EPA 3050B Mercury, Total ND mg/kg 0.067 0.044 1 06/20/19 19:00 06/20/19 23:12 EPA 7471B 1,7471B EΑ Nickel, Total 43.8 2.04 0.197 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg 2 1,6010D LC Potassium, Total 1070 mg/kg 204 11.7 06/20/19 21:06 06/24/19 17:33 EPA 3050B Selenium, Total ND mg/kg 1.63 0.210 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC Silver, Total ND mg/kg 0.814 0.230 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC Sodium, Total 292 mg/kg 163 2.56 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC Thallium, Total ND 1.63 0.256 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg Vanadium, Total 28.7 2 06/20/19 21:06 06/24/19 17:33 EPA 3050B 1,6010D LC mg/kg 0.814 0.165 2 1,6010D LC Zinc, Total 37.4 0.239 mg/kg 4.07 06/20/19 21:06 06/24/19 17:33 EPA 3050B General Chemistry - Mansfield Lab 107,-Chromium, Trivalent 24 mg/kg 0.83 0.83 1 06/24/19 17:33 NA



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925921-09 06/14/19 12:40 Client ID: WP-SB-01_2-2.5 Date Received: 06/14/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 06/17/19 17:34

Matrix: Soil 91% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.899 mg/l 0.500 0.027 1 06/21/19 13:26 06/21/19 17:08 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Project Number: 170384501 **Report Date:**

08/14/19

SAMPLE RESULTS Lab ID: L1925921-09

Date Collected:

06/14/19 12:40

Client ID: WP-SB-01_2-2.5 Sample Location: BROOKLYN, NY Date Received: 06/14/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

91% Percent Solids:

i ercent donas.	0.70					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Tatal Matala Man	. C . I . I I . I										
Total Metals - Man	sfield Lab										
Barium, Total	85.8		mg/kg	0.415	0.072	1	06/20/19 21:00	6 06/24/19 17:37	EPA 3050B	1,6010D	LC
Lead, Total	508		mg/kg	2.08	0.111	1	06/20/19 21:00	6 06/24/19 17:37	EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID: Date Collected: L1925921-11 06/14/19 12:50 Client ID: WP-SB-01_A_1-2 Date Received: 06/14/19 Field Prep: Not Specified Sample Location: BROOKLYN, NY

Sample Depth:

Matrix: Soil 90% Percent Solids:

Prep Analytical Dilution Date Date Method **Factor Parameter** Result Qualifier Units Prepared Analyzed Method RLMDL **Analyst** Total Metals - Mansfield Lab Barium, Total 108 mg/kg 0.435 0.076 1 06/20/19 21:06 06/24/19 18:10 EPA 3050B 1,6010D LC Lead, Total 451 mg/kg 2.18 0.117 1 06/20/19 21:06 06/24/19 18:10 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1925921 08/14/19

Project Number: 170384501 Report Date:

SAMPLE RESULTS Lab ID:

L1925921-12

Date Collected: Date Received: 06/14/19 12:55

Client ID: WP-SB-01_B_1-2 Sample Location: BROOKLYN, NY

06/14/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

91% Percent Solids:

Percent Solids.	3170					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Barium, Total	49.6		mg/kg	0.423	0.074	1	06/20/19 21:06	6 06/24/19 18:15	EPA 3050B	1,6010D	LC
Lead, Total	18.2		mg/kg	2.12	0.113	1	06/20/19 21:06	6 06/24/19 18:15	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 470394504

Project Number: 470394504

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

Lab ID:L1925921-13Date Collected:06/14/19 13:00Client ID:WP-SB-01_C_1-2Date Received:06/14/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Prep Analytical Dilution Date Date Method **Factor Parameter** Result Qualifier Units **Prepared** Analyzed Method RL MDL **Analyst** Total Metals - Mansfield Lab Barium, Total 88.4 mg/kg 0.432 0.075 1 06/20/19 21:06 06/24/19 18:20 EPA 3050B 1,6010D LC Lead, Total 693 mg/kg 2.16 0.116 1 06/20/19 21:06 06/24/19 18:20 EPA 3050B 1,6010D LC



L1925921

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/14/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s)): 01-04,09,	11-13	Batch: V	VG1251112	2-1			
Aluminum, Total	ND	mg/kg	4.00	1.08	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Antimony, Total	ND	mg/kg	2.00	0.152	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Arsenic, Total	ND	mg/kg	0.400	0.083	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Barium, Total	ND	mg/kg	0.400	0.070	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Beryllium, Total	ND	mg/kg	0.200	0.013	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Cadmium, Total	ND	mg/kg	0.400	0.039	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Calcium, Total	ND	mg/kg	4.00	1.40	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Chromium, Total	ND	mg/kg	0.400	0.038	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Cobalt, Total	ND	mg/kg	0.800	0.066	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Copper, Total	ND	mg/kg	0.400	0.103	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Iron, Total	3.03	mg/kg	2.00	0.361	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Lead, Total	ND	mg/kg	2.00	0.107	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Magnesium, Total	ND	mg/kg	4.00	0.616	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Manganese, Total	ND	mg/kg	0.400	0.064	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Nickel, Total	ND	mg/kg	1.00	0.097	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Potassium, Total	ND	mg/kg	100	5.76	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Selenium, Total	ND	mg/kg	0.800	0.103	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Silver, Total	ND	mg/kg	0.400	0.113	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Sodium, Total	1.85 J	mg/kg	80.0	1.26	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Thallium, Total	ND	mg/kg	0.800	0.126	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Vanadium, Total	ND	mg/kg	0.400	0.081	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC
Zinc, Total	ND	mg/kg	2.00	0.117	1	06/20/19 21:06	06/24/19 13:08	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mans	field Lab for sample(s):	01-04 B	atch: Wo	G12511	37-1				
Mercury, Total	ND	mg/kg	0.083	0.054	1	06/20/19 19:00	06/20/19 22:19	1,7471B	EA



L1925921

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 08/14/19

> **Method Blank Analysis Batch Quality Control**

> > **Prep Information**

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1	311 - Mansfield Lab	for sample	e(s): 09	Batch:	WG12514	85-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/21/19 13:26	06/21/19 16:27	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/17/19 17:34

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 01	Batch:	WG12567	71-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/06/19 18:22	07/08/19 14:20	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/27/19 18:24



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	e(s): 01-04,09,11	-13 Bato	ch: WG1251112-2	SRM Lot	Number: D105-540			
Aluminum, Total	60		-		51-149	-		
Antimony, Total	160		-		19-249	-		
Arsenic, Total	110		-		70-130	-		
Barium, Total	98		-		75-125	-		
Beryllium, Total	104		-		75-125	-		
Cadmium, Total	102		-		75-125	-		
Calcium, Total	94		-		73-127	-		
Chromium, Total	96		-		70-130	-		
Cobalt, Total	100		-		75-125	-		
Copper, Total	101		-		75-125	-		
Iron, Total	82		-		38-162	-		
Lead, Total	102		-		71-128	-		
Magnesium, Total	82		-		63-137	-		
Manganese, Total	96		-		76-124	-		
Nickel, Total	103		-		70-131	-		
Potassium, Total	80		-		60-140	-		
Selenium, Total	110		-		63-137	-		
Silver, Total	100		-		69-131	-		
Sodium, Total	107		-		37-162	-		
Thallium, Total	101		-		68-132	-		
Vanadium, Total	96		-		65-135	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associate	d sample(s): 01-04,09,11-13 E	Batch: WG1251112-2 S	RM Lot Number: D105-540		
Zinc, Total	104	-	70-130	-	
Total Metals - Mansfield Lab Associate	d sample(s): 01-04 Batch: WG	1251137-2 SRM Lot N	lumber: D105-540		
Mercury, Total	83	-	60-141	-	
TCLP Metals by EPA 1311 - Mansfield I	Lab Associated sample(s): 09	Batch: WG1251485-2			
Lead, TCLP	97	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield	Lab Associated sample(s): 01	Batch: WG1256771-2			
Lead, TCLP	96	-	75-125	-	20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

arameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		overy mits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab	Associated sar	nple(s): 01-0	04,09,11-13	QC Batch ID): WG12	51112-3	QC Sample: L	1925770-03	3 Clier	nt ID:	MS San	nple
Aluminum, Total	6650	179	5930	0	Q	-	-	75	-125	-		20
Antimony, Total	ND	44.7	38.8	87		-	-	75	-125	-		20
Arsenic, Total	1.90	10.7	12.6	100		-	-	75	-125	-		20
Barium, Total	109	179	248	78		-	-	75	-125	-		20
Beryllium, Total	ND	4.47	3.74	84		-	-	75	5-125	-		20
Cadmium, Total	0.496J	4.56	4.89	107		-	-	75	-125	-		20
Calcium, Total	3030	894	2280	0	Q	-	-	75	-125	-		20
Chromium, Total	18.1	17.9	31.8	77		-	-	75	-125	-		20
Cobalt, Total	8.76	44.7	48.3	88		-	-	75	-125	-		20
Copper, Total	15.6	22.3	35.6	90		-	-	75	-125	-		20
Iron, Total	14000	89.4	13100	0	Q	-	-	75	-125	-		20
Lead, Total	12.9	45.6	51.3	84		-	-	75	-125	-		20
Magnesium, Total	3120	894	3370	28	Q	-	-	75	-125	-		20
Manganese, Total	147	44.7	157	22	Q	-	-	75	-125	-		20
Nickel, Total	16.6	44.7	56.5	89		-	-	75	-125	-		20
Potassium, Total	3270	894	3400	14	Q	-	-	75	-125	-		20
Selenium, Total	ND	10.7	10.3	96		-	-	75	5-125	-		20
Silver, Total	ND	26.8	24.6	92		-	-	75	5-125	-		20
Sodium, Total	264	894	1040	87		-	-	75	5-125	-		20
Thallium, Total	ND	10.7	8.56	80		-	-	75	5-125	-		20
Vanadium, Total	23.7	44.7	63.1	88		-	-	75	-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recover Limits	y RPD	RPD Limits
Total Metals - Mansfield L	_ab Associated sam	ple(s): 01-0	4,09,11-13	QC Batch ID): WG125	1112-3	QC Sample: L1	925770-03 C	lient ID: I	MS Sample
Zinc, Total	33.1	44.7	70.1	83		-	-	75-125	-	20
Total Metals - Mansfield L	_ab Associated sam	ple(s): 01-0	4 QC Batc	h ID: WG125	1137-3	QC Sam	ple: L1925072-0	01 Client ID: I	ИS Samp	le
Mercury, Total	ND	0.369	0.465	126	Q	-	-	80-120	-	20
TCLP Metals by EPA 131	1 - Mansfield Lab A	ssociated s	ample(s): 09	QC Batch	ID: WG12	251485-3	QC Sample: I	L1925877-01	Client ID:	MS Sample
Lead, TCLP	1.49	5.1	6.62	100		-	-	75-125	-	20
TCLP Metals by EPA 131	1 - Mansfield Lab A	ssociated s	ample(s): 01	QC Batch	ID: WG12	256771-3	QC Sample: I	L1925921-01	Client ID:	WC-03_0-6
Lead, TCLP	0.044J	5.1	4.91	96		-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L1925921

 Report Date:
 08/14/19

arameter	Native San	nple Duplicate Sampl	e Units	RPD	Qual RPD Limits		
otal Metals - Mansfield Lab Associated sample	(s): 01-04,09,11-13	QC Batch ID: WG1251112-4	QC Sample:	L1925770-03	Client ID:	DUP Sample	
Aluminum, Total	6650	6440	mg/kg	3		20	
Antimony, Total	ND	ND	mg/kg	NC		20	
Arsenic, Total	1.90	1.75	mg/kg	8		20	
Barium, Total	109	95.2	mg/kg	14		20	
Beryllium, Total	ND	ND	mg/kg	NC		20	
Cadmium, Total	0.496J	0.506J	mg/kg	NC		20	
Calcium, Total	3030	1560	mg/kg	64	Q	20	
Chromium, Total	18.1	17.6	mg/kg	3		20	
Cobalt, Total	8.76	8.65	mg/kg	1		20	
Copper, Total	15.6	16.8	mg/kg	7		20	
Iron, Total	14000	14000	mg/kg	0		20	
Lead, Total	12.9	8.80	mg/kg	38	Q	20	
Magnesium, Total	3120	2900	mg/kg	7		20	
Manganese, Total	147	136	mg/kg	8		20	
Nickel, Total	16.6	17.0	mg/kg	2		20	
Potassium, Total	3270	2880	mg/kg	13		20	
Selenium, Total	ND	ND	mg/kg	NC		20	
Silver, Total	ND	ND	mg/kg	NC		20	
Sodium, Total	264	264	mg/kg	0		20	



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925921

Report Date:

08/14/19

Parameter	Native Sam	ple Duplicate Sampl	le Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associ	ated sample(s): 01-04,09,11-13	QC Batch ID: WG1251112-4	QC Sample: L	.1925770-03	Client ID: D	OUP Sample
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	23.7	24.4	mg/kg	3		20
Zinc, Total	33.1	46.4	mg/kg	33	Q	20
Total Metals - Mansfield Lab Associ	ated sample(s): 01-04 QC Batch	n ID: WG1251137-4 QC Sam	nple: L1925072-	01 Client ID:	DUP Sam	ole
Mercury, Total	ND	ND	mg/kg	NC		20
ΓCLP Metals by EPA 1311 - Mansfie	eld Lab Associated sample(s): 09	QC Batch ID: WG1251485-4	4 QC Sample:	L1925877-0	1 Client ID:	DUP Sample
Lead, TCLP	1.49	1.58	mg/l	6		20
TCLP Metals by EPA 1311 - Mansfie	eld Lab Associated sample(s): 01	QC Batch ID: WG1256771-4	4 QC Sample:	L1925921-01	1 Client ID:	WC-03_0-6
Lead, TCLP	0.044J	0.035J	mg/l	NC		20

INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE

Lab Number:

L1925921

Project Number: 170384501

Report Date:

08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02

Client ID: WC-03_6-12 Sample Location: BROOKLYN, NY Date Collected:
Date Received:

06/14/19 12:05

Field Prep:

06/14/19 Not Specified

Sample Depth:

Matrix:

Soil

Test Material Information

Source of Material: Unknown

Description of Material: Non-Metallic - Damp Soil

Particle Size: Medium
Preliminary Burning Time (sec): 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solid	s - Westborough Lab			
Ignitability	NI	06/19/19 16:12	1,1030	BR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-01
 Date Collected:
 06/14/19 12:15

 Client ID:
 WC-03_0-6
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier Ur	its RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab								
Solids, Total	91.4	o,	6 0.100	NA	1	-	06/16/19 06:09	121,2540G	YA
Cyanide, Total	ND	mg	/kg 1.0	0.22	1	06/16/19 17:20	06/17/19 11:49	1,9010C/9012B	LH
pH (H)	10.1	S	J -	NA	1	-	09/17/19 04:25	1,9045D	EJ
Chromium, Hexavalent	ND	mg	/kg 0.875	0.175	1	06/17/19 02:28	06/17/19 14:28	1,7196A	NH



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-02
 Date Collected:
 06/14/19 12:05

 Client ID:
 WC-03_6-12
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lab)								
Solids, Total	94.4		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	06/16/19 17:20	06/17/19 11:52	1,9010C/9012B	LH
pH (H)	8.4		SU	-	NA	1	-	09/17/19 04:25	1,9045D	EJ
Chromium, Hexavalent	ND		mg/kg	0.847	0.169	1	06/17/19 02:28	06/17/19 14:28	1,7196A	NH
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/19 20:10	06/19/19 22:40	125,7.3	TL
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/19 20:10	06/19/19 22:34	125,7.3	TL



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-03
 Date Collected:
 06/14/19 12:25

 Client ID:
 WC-03_12-18
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	93.9		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.21	1	06/16/19 17:20	06/17/19 11:53	1,9010C/9012B	LH
pH (H)	7.5		SU	-	NA	1	-	09/17/19 04:25	1,9045D	EJ
Chromium, Hexavalent	ND		mg/kg	0.852	0.170	1	06/17/19 02:28	06/17/19 14:28	1,7196A	NH



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-04
 Date Collected:
 06/14/19 12:00

 Client ID:
 WC-03_18-26
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	estborough Lab)								
Solids, Total	96.3		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/16/19 17:20	06/17/19 11:54	1,9010C/9012B	LH
pH (H)	9.4		SU	-	NA	1	-	09/17/19 04:25	1,9045D	EJ
Chromium, Hexavalent	ND		mg/kg	0.831	0.166	1	06/17/19 02:28	06/17/19 14:28	1,7196A	NH



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-05
 Date Collected:
 06/14/19 09:10

 Client ID:
 WC-03_2-3
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	90.4		%	0.100	NA	1	-	06/18/19 13:57	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-06
 Date Collected:
 06/14/19 11:45

 Client ID:
 WC-03_7-8
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	93.5		%	0.100	NA	1	-	06/18/19 13:57	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-07
 Date Collected:
 06/14/19 11:30

 Client ID:
 WC-03_15-16
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	93.3		%	0.100	NA	1	-	06/18/19 13:57	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-08
 Date Collected:
 06/14/19 09:07

 Client ID:
 WC-03_25-26
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	96.5		%	0.100	NA	1	-	06/18/19 13:57	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-09
 Date Collected:
 06/14/19 12:40

 Client ID:
 WP-SB-01_2-2.5
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.7		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-11
 Date Collected:
 06/14/19 12:50

 Client ID:
 WP-SB-01_A_1-2
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	89.9		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-12
 Date Collected:
 06/14/19 12:55

 Client ID:
 WP-SB-01_B_1-2
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result Qu	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	91.2		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921

Project Number: 170384501 **Report Date:** 08/14/19

SAMPLE RESULTS

 Lab ID:
 L1925921-13
 Date Collected:
 06/14/19 13:00

 Client ID:
 WP-SB-01_C_1-2
 Date Received:
 06/14/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.1		%	0.100	NA	1	-	06/16/19 06:09	121,2540G	YA



L1925921

Project Name: Lab Number: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 08/14/19

Method Blank Analysis

MEHIOR	Dialik Alialysis	
Batch	Quality Control	

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westb	orough Lab for sam	ple(s): 01-	-04 Ba	tch: WC	31249204-1	I			
Cyanide, Total	ND	mg/kg	0.84	0.18	1	06/16/19 17:20	06/17/19 12:17	1,9010C/9012E	B LH
General Chemistry - Westb	orough Lab for sam	ple(s): 01-	-04 Ba	tch: WC	G1249273-1	I			
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	06/17/19 02:28	06/17/19 14:28	1,7196A	NH
General Chemistry - Westb	orough Lab for sam	ple(s): 02	Batch	: WG12	50612-1				
Sulfide, Reactive	ND	mg/kg	10	10.	1	06/19/19 20:10	06/19/19 22:33	125,7.3	TL
General Chemistry - Westb	orough Lab for sam	ple(s): 02	Batch	: WG12	50621-1				
Cyanide, Reactive	ND	mg/kg	10	10.	1	06/19/19 20:10	06/19/19 22:39	125,7.3	TL



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925921

Report Date:

08/14/19

Parameter	LCS %Recovery Qı	LCSD ual %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01	1-04 Batch: WG124	9204-2 WG	G1249204-3			
Cyanide, Total	78	Q 78	Q	80-120	15		35
General Chemistry - Westborough Lab	Associated sample(s): 01	1-04 Batch: WG124	9260-1				
рН	100			99-101	-		
General Chemistry - Westborough Lab	Associated sample(s): 01	1-04 Batch: WG124	9273-2				
Chromium, Hexavalent	85	-		80-120	-		20
General Chemistry - Westborough Lab	Associated sample(s): 02	2 Batch: WG125061	2-2				
Sulfide, Reactive	101	-		60-125	-		40
General Chemistry - Westborough Lab	Associated sample(s): 02	2 Batch: WG125062	21-2				
Cyanide, Reactive	117	-		30-125	-		40



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925921

Report Date:

08/14/19

<u>Parameter</u>	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD (RPD Qual Limits
General Chemistry - Westbor WC-03_0-6	rough Lab Assoc	ciated samp	le(s): 01-04	QC Batch II	D: WG1:	249204-4	WG1249204-5	QC Sai	mple: L19	25921-0 ⁻	Client ID:
Cyanide, Total	ND	10	8.1	77		9.0	90		75-125	11	35
General Chemistry - Westbor	rough Lab Assoc	ciated samp	le(s): 01-04	QC Batch II	D: WG1:	249273-4	QC Sample:	L192592	1-03 Cli	ent ID: V	VC-03_12-18
Chromium, Hexavalent	ND	1080	1070	99		-	-		75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1925921

Report Date:

08/14/19

Parameter	Nati	ve Sample	Duplicate Sample	e Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Sample	Associated sample(s):	01-04,09,11-13	QC Batch ID: WG12	249105-1 QC	Sample: L19	25281-01	Client ID: DUP
Solids, Total		86.7	84.4	%	3		20
General Chemistry - Westborough Lab	Associated sample(s):	01-04 QC Bat	ch ID: WG1249260-2	QC Sample:	L1925770-03	Client ID:	DUP Sample
рН		8.5	8.2	SU	4		5
General Chemistry - Westborough Lab	Associated sample(s):	01-04 QC Bat	ch ID: WG1249273-6	QC Sample:	L1925921-03	Client ID:	WC-03_12-18
Chromium, Hexavalent		ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab	Associated sample(s):	05-08 QC Bat	ch ID: WG1249908-1	QC Sample:	L1926122-01	Client ID:	DUP Sample
Solids, Total		98.3	98.2	%	0		20
General Chemistry - Westborough Lab	Associated sample(s):	02 QC Batch	ID: WG1250612-3 Q	C Sample: L19	926217-01 CI	ient ID: DI	UP Sample
Sulfide, Reactive		ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab	Associated sample(s):	02 QC Batch	ID: WG1250621-3 Q	C Sample: L19	926217-01 CI	ient ID: DI	UP Sample
Cyanide, Reactive		ND	ND	mg/kg	NC		40

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1925921 **Report Date:** 08/14/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Container Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рH	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925921-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1925921-01B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HEXCR-7196(30)
L1925921-01C	Glass 500ml/16oz unpreserved	Α	NA		3.1	Υ	Absent		NYTCL-8270(14),TCN-9010(14),HERB- APA(14),TS(7),PH-9045(1),NYTCL- 8081(14),NYTCL-8082(14)
L1925921-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.1	Υ	Absent		PB-CI(180)
L1925921-01X9	Tumble Vessel	Α	NA		3.1	Υ	Absent		-
L1925921-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1925921-02B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HEXCR-7196(30)
L1925921-02C	Glass 500ml/16oz unpreserved	A	NA		3.1	Υ	Absent		IGNIT-1030(14),NYTCL- 8270(14),REACTS(14),TCN-9010(14),HERB- APA(14),TS(7),PH-9045(1),NYTCL- 8081(14),NYTCL-8082(14),REACTCN(14)
L1925921-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1925921-03B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HEXCR-7196(30)
L1925921-03C	Glass 500ml/16oz unpreserved	A	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB- APA(14),TS(7),PH-9045(1),NYTCL- 8081(14),NYTCL-8082(14)



Lab Number: L1925921

Report Date: 08/14/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925921-04A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG- TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL- TI(180),TRICR-CALC(30),CU-TI(180),PB- TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO- TI(180),V-TI(180),FE-TI(180),HG-T(28),MG- TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K- TI(180),NA-TI(180)
L1925921-04B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HEXCR-7196(30)
L1925921-04C	Glass 500ml/16oz unpreserved	Α	NA		3.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB- APA(14),TS(7),PH-9045(1),NYTCL- 8081(14),NYTCL-8082(14)
L1925921-05A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		NYTCL-8260HLW(14)
L1925921-05B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-05C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-05D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L1925921-06A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		NYTCL-8260HLW(14)
L1925921-06B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-06C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-06D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L1925921-07A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		NYTCL-8260HLW(14)
L1925921-07B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-07C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-07D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L1925921-08A	Vial MeOH preserved	Α	NA		3.1	Υ	Absent		NYTCL-8260HLW(14)
L1925921-08B	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-08C	Vial water preserved	Α	NA		3.1	Υ	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-08D	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L1925921-09A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		BA-TI(180),PB-TI(180)
L1925921-09B	Plastic 2oz unpreserved for TS	Α	NA		3.1	Υ	Absent		TS(7)
L1925921-09X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.1	Υ	Absent		PB-CI(180)
L1925921-09X9	Tumble Vessel	Α	NA		3.1	Υ	Absent		-
L1925921-10A	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)



Lab Number: L1925921

Report Date: 08/14/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	-	Pres	Seal	Date/Time	Analysis(*)
L1925921-10B	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-11A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		BA-TI(180),PB-TI(180)
L1925921-11B	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-12A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		BA-TI(180),PB-TI(180)
L1925921-12B	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-13A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		BA-TI(180),PB-TI(180)
L1925921-13B	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-14A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-14B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-15A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-15B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-16A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-16B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-17A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-17B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-18A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-18B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-19A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-19B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-20A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-20B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-21A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-21B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-22A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-22B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-23A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-23B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-24A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)



Lab Number: L1925921

Report Date: 08/14/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1925921-24B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-25A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-25B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-26A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-26B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-27A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-27B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-28A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-28B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-29A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-29B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-30A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-30B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-31A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-31B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-32A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-32B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-33A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-METAL(180)
L1925921-33B	Glass 120ml/4oz unpreserved	Α	NA		3.1	Υ	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1925921 **Report Date: Project Number:** 170384501 08/14/19

GLOSSARY

Acronyms

EDL

LOD

MSD

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.)

- 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.

- 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

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

MDI - 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.

- 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.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD

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.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - 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:805-825 ATLANTIC AVENUELab Number:L1925921Project Number:170384501Report Date:08/14/19

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".
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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: 805-825 ATLANTIC AVENUE Lab Number: L1925921
Project Number: 170384501 Report Date: 08/14/19

REFERENCES

- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I IV, 2007.
- 107 Alpha Analytical In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:08141915:24

ID No.:17873 Revision 14

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, 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, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 White Albany, NY 12205: 14 Walke Tonawanda, NY 14150: 275 of Project Information Project Name: 605 Project Location: 15	Cooper Ave, Suite 1 S-825 Atl Srouklyn	lantic Ave		of 4	Deliv	in verable (ASP	-A IS (1 F	6		ASP EQU	-В	File)	ALPHA Job# L1925941 Billing Information Same as Client Info	
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ANALYTICAL REPORT

Lab Number: L1960511

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Del Col Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 12/26/19

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1960511 **Report Date:** 12/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1960511-01	SB-114_SWN_6-7	SOIL	BROOKLYN, NY	12/17/19 10:28	12/17/19
L1960511-02	SB-114_SWE_6-7	SOIL	BROOKLYN, NY	12/17/19 10:27	12/17/19
L1960511-03	SB-114_SWS_6-7	SOIL	BROOKLYN, NY	12/17/19 10:26	12/17/19
L1960511-04	SB-114_SWW_6-7	SOIL	BROOKLYN, NY	12/17/19 10:25	12/17/19
L1960511-05	SB-114_FLOOR_8	SOIL	BROOKLYN, NY	12/17/19 10:29	12/17/19
L1960511-06	SB-114_SWN_8	SOIL	BROOKLYN, NY	12/17/19 10:33	12/17/19
L1960511-07	SB-114_SWE_8	SOIL	BROOKLYN, NY	12/17/19 10:32	12/17/19
L1960511-08	SB-114_SWS_8	SOIL	BROOKLYN, NY	12/17/19 10:31	12/17/19
L1960511-09	SB-114_SWW_8	SOIL	BROOKLYN, NY	12/17/19 10:30	12/17/19
L1960511-10	DUP01_121719	SOIL	BROOKLYN, NY	12/17/19 00:00	12/17/19
L1960511-11	FB01_121719	WATER	BROOKLYN, NY	12/17/19 11:15	12/17/19



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

Case Narrative (continued)

Report Submission

December 26, 2019: This final report includes the results of all requested analyses.

December 20, 2019: This preliminary report includes the results of the Total Metals analysis performed on

L1960511-01 through -05 and -10.

December 19, 2019: This is a preliminary report.

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

Total Metals

The WG1322801-3 MS recovery, performed on L1960511-11, is outside the acceptance criteria for lead (62%). A post digestion spike was performed and was within acceptance criteria.

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

Authorized Signature:

Title: Technical Director/Representative Date: 12/26/19

600, Sew on Kelly Stenstrom

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 12/26/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1960511-01 Date Collected: 12/17/19 10:28 Client ID: SB-114_SWN_6-7 Date Received: 12/17/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil 83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.686 mg/l 0.500 0.027 1 12/19/19 17:10 12/20/19 12:14 EPA 3015 1,6010D PΕ



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L1960511

 Project Number:
 170384501
 Report Date:
 12/26/19

SAMPLE RESULTS

Lab ID:L1960511-01Date Collected:12/17/19 10:28Client ID:SB-114_SWN_6-7Date Received:12/17/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Matrix: Soil
Percent Solids: 83%

Percent Solids: Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 806 Lead, Total mg/kg 2.33 0.125 1 12/18/19 21:00 12/19/19 11:59 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-02 Date Collected: 12/17/19 10:27 Client ID: SB-114_SWE_6-7 Date Received: 12/17/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil 83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.227 mg/l 0.500 0.027 1 12/19/19 17:10 12/20/19 12:18 EPA 3015 1,6010D PΕ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 **Project Number:**

170384501

Report Date:

12/26/19

SAMPLE RESULTS Lab ID: L1960511-02

Date Collected:

12/17/19 10:27

Client ID: SB-114_SWE_6-7 Sample Location: BROOKLYN, NY

Date Received: 12/17/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

83%

Percent Solids:	83%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	110		mg/kg	2.28	0.122	1	12/18/19 21:0	0 12/19/19 12:03	EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-03 Date Collected: 12/17/19 10:26 Client ID: SB-114_SWS_6-7 Date Received: 12/17/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil 77% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.105 mg/l 0.500 0.027 1 12/19/19 17:10 12/20/19 12:31 EPA 3015 1,6010D PΕ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 **Report Date:** 12/26/19

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L1960511-03 Date Collected: 12/17/19 10:26 Client ID: SB-114_SWS_6-7 Date Received: 12/17/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth:

Matrix: Soil 77%

Percent Solids: Prep **Analytical** Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 21.3 mg/kg 2.47 0.132 1 12/18/19 21:00 12/19/19 12:07 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 12/26/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L1960511-04 Client ID: SB-114_SWW_6-7 Date Collected: Date Received: 12/17/19 10:25

Sample Location: BROOKLYN, NY Field Prep:

12/17/19 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix:

Soil 86%

Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Percent Solids.	0070					Dilution	Date	Date	Prep	Analytical	

TCLP Metals by	EPA 1311 - M	1ansfield	Lab						
Lead, TCLP	0.087	J	mg/l	0.500	0.027	1	12/19/19 17:10 12/20/19 12:35 EPA 3015	1,6010D	PE



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511

Project Number: 170384501 **Report Date:**

12/26/19

SAMPLE RESULTS

mg/kg

2.25

12/17/19 10:25

Client ID:

L1960511-04 SB-114_SWW_6-7 Date Collected: Date Received: Field Prep:

12/18/19 21:00 12/19/19 12:55 EPA 3050B

12/17/19 Not Specified

1,6010D

LC

Sample Location:

BROOKLYN, NY

Sample Depth:

Matrix:

Lead, Total

Lab ID:

Soil

137

86% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab

1

0.121

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID: Date Collected: L1960511-05 12/17/19 10:29 Client ID: SB-114_FLOOR_8 Date Received: 12/17/19 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil 84% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.096 mg/l 0.500 0.027 1 12/19/19 17:10 12/20/19 12:39 EPA 3015 1,6010D PΕ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 **Project Number:**

170384501

Report Date:

12/26/19

SAMPLE RESULTS Lab ID: L1960511-05

Date Collected:

12/17/19 10:29

Client ID: SB-114_FLOOR_8 Sample Location: BROOKLYN, NY

Date Received: 12/17/19 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

84% Percent Solids:

Percent Solids:	04 /0					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	98.6		mg/kg	2.34	0.125	1	12/18/19 21:0	0 12/19/19 12:59	9 EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID: Date Collected: L1960511-10 12/17/19 00:00 Client ID: DUP01_121719 Date Received: 12/17/19 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil 85% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.679 mg/l 0.500 0.027 1 12/19/19 17:10 12/20/19 12:43 EPA 3015 1,6010D PΕ



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 12/26/19

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS Lab ID:

L1960511-10

Date Collected:

12/17/19 00:00

Client ID: DUP01_121719 BROOKLYN, NY Sample Location:

12/17/19 Date Received: Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

85% Percent Solids:

i crociii collas.						Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	wethod	Analyst
Total Metals - Mar	nsfield Lab										
Lead, Total	309		mg/kg	2.23	0.120	1	12/18/19 21:0	0 12/19/19 13:00	3 EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L1960511 12/26/19

Project Number: 170384501

L1960511-11

Report Date:

SAMPLE RESULTS

Date Collected:

12/17/19 11:15

Client ID: FB01_121719 Sample Location: BROOKLYN, NY Date Received: Field Prep:

12/17/19 Not Specified

Sample Depth:

Lab ID:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/19/19 12:2	2 12/19/19 14:56	EPA 3005A	1,6020B	AM



L1960511

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 12/26/19

Lab Number:

Method Blank Analysis Batch Quality Control

Dilution Date Analytical **Date Result Qualifier Factor Prepared Analyzed** Method Analyst **Parameter Units** RL **MDL** Total Metals - Mansfield Lab for sample(s): 01-05,10 Batch: WG1322458-1 Lead, Total ND 2.00 0.107 LC mg/kg 12/18/19 21:00 12/19/19 11:37 1,6010D

Prep Information

Digestion Method: EPA 3050B

Dilution Analytical Date **Date Factor** Method Analyst **Result Qualifier Units** RL**Prepared** Analyzed **Parameter** MDL Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1322801-1 Lead, Total ND 0.00034 1,6020B mg/l 0.00100 12/19/19 14:52 12/19/19 12:22 AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 01-	05,10	Batch: WG	1322925-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	12/19/19 17:10	12/20/19 11:40	1,6010D	PE

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 12/17/19 15:37



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1960511

Report Date:

12/26/19

Parameter	LCS %Recovery	v Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab A	ssociated sample(s): 01-05,10	Batch: WG	1322458-2 SRM	Lot Numb	er: D105-540			
Lead, Total	92		-		71-128	-		
Total Metals - Mansfield Lab A	ssociated sample(s): 11 Batcl	h: WG132280	01-2					
Lead, Total	82		-		80-120	-		
TCLP Metals by EPA 1311 - Ma	ansfield Lab Associated sample	e(s): 01-05,10	D Batch: WG132	2925-2				
Lead, TCLP	94		-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1960511

Report Date:

12/26/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD Qual	RPD Limits
Total Metals - Mansfield Lab As	ssociated sam	ple(s): 01-0)5,10 QC E	Batch ID: WG1	322458	-3 QC S	Sample: L19605	41-02	Client ID:	MS Sample	
Lead, Total	77.0	43.8	105	64	Q	-	-		75-125	-	20
Total Metals - Mansfield Lab As	ssociated sam	ple(s): 11	QC Batch I	D: WG132280	1-3 C	C Sample	: L1960511-11	Client	ID: FB01_	_121719	
Lead, Total	ND	0.51	0.3183	62	Q	-	-		75-125	-	20
TCLP Metals by EPA 1311 - Ma	ansfield Lab A	ssociated s	sample(s): 0	1-05,10 QC	Batch IE): WG1322	2925-3 QC Sa	ample:	L1960430-0	04 Client ID	: MS Sample
Lead, TCLP	ND	5.1	4.76	93		-	-		75-125	-	20



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L1960511

Report Date:

12/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD Qual R	PD Limits
Total Metals - Mansfield Lab Associated sample(s): 07	I-05,10 QC Batch ID: W	/G1322458-4 QC Sample	: L1960541-02	Client ID: DUP Sam	nple
Lead, Total	77.0	71.5	mg/kg	7	20
Total Metals - Mansfield Lab Associated sample(s): 11	QC Batch ID: WG1322	2801-4 QC Sample: L196	60511-11 Clien	t ID: FB01_121719	
Lead, Total	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated Sample	sample(s): 01-05,10 Q	C Batch ID: WG1322925-4	QC Sample:	: L1960430-04 Clien	t ID: DUP
Lead, TCLP	ND	ND	mg/l	NC	20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

 Lab ID:
 L1960511-01
 Date Collected:
 12/17/19 10:28

 Client ID:
 SB-114_SWN_6-7
 Date Received:
 12/17/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	82.9		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

 Lab ID:
 L1960511-02
 Date Collected:
 12/17/19 10:27

 Client ID:
 SB-114_SWE_6-7
 Date Received:
 12/17/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	Vestborough Lab)								
Solids, Total	83.0		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

 Lab ID:
 L1960511-03
 Date Collected:
 12/17/19 10:26

 Client ID:
 SB-114_SWS_6-7
 Date Received:
 12/17/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	76.8		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID:L1960511-04Date Collected:12/17/19 10:25Client ID:SB-114_SWW_6-7Date Received:12/17/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	86.0		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

Lab ID:L1960511-05Date Collected:12/17/19 10:29Client ID:SB-114_FLOOR_8Date Received:12/17/19Sample Location:BROOKLYN, NYField Prep:Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab)								
Solids, Total	84.0		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L1960511

Project Number: 170384501 **Report Date:** 12/26/19

SAMPLE RESULTS

 Lab ID:
 L1960511-10
 Date Collected:
 12/17/19 00:00

 Client ID:
 DUP01_121719
 Date Received:
 12/17/19

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab)								
Solids, Total	84.9		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



L1960511

Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** 805-825 ATLANTIC AVENUE

Project Number: 170384501 Report Date: 12/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab 114_SWN_6-7	Associated sample(s): 01-05,10	QC Batch ID: WG1322568-1	QC Sample:	L1960511-	01 Client ID: SB-
Solids, Total	82.9	81.8	%	1	20



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1960511 **Report Date:** 12/26/19

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Container Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L1960511-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)	
L1960511-01B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)	
L1960511-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)	
L1960511-01X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-	
L1960511-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)	
L1960511-02B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)	
L1960511-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)	
L1960511-02X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-	
L1960511-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)	
L1960511-03B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)	
L1960511-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)	
L1960511-03X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-	
L1960511-04A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)	
L1960511-04B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)	
L1960511-04X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)	
L1960511-04X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-	
L1960511-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)	
L1960511-05B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)	
L1960511-05X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)	
L1960511-05X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-	
L1960511-06A	Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-METAL(180)	
L1960511-06B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-CONTINGENCY(14)	
L1960511-07A	Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-METAL(180)	



Lab Number: L1960511

Report Date: 12/26/19

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Info	Container Information				Temp			Frozen	
Container ID	Container Type	Cooler	Initial pH	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L1960511-07B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1960511-08A	Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-METAL(180)
L1960511-08B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1960511-09A	Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-METAL(180)
L1960511-09B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		HOLD-CONTINGENCY(14)
L1960511-10A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		2.5	Υ	Absent		PB-TI(180)
L1960511-10B	Glass 250ml/8oz unpreserved	Α	NA		2.5	Υ	Absent		TS(7)
L1960511-10X	Plastic 120ml HNO3 preserved Extracts	Α	NA		2.5	Υ	Absent		PB-CI(180)
L1960511-10X9	Tumble Vessel	Α	NA		2.5	Υ	Absent		-
L1960511-11A	Plastic 250ml HNO3 preserved	Α	<2	<2	2.5	Υ	Absent		PB-6020T(180)



Project Name:805-825 ATLANTIC AVENUELab Number:L1960511Project Number:170384501Report Date:12/26/19

GLOSSARY

Acronyms

EDL

LOD

LOQ

MS

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.)

- 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.

- 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.)

 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.

 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:805-825 ATLANTIC AVENUELab Number:L1960511Project Number:170384501Report Date:12/26/19

 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, Benza(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.

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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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.)

Report Format: DU Report with 'J' Qualifiers



Project Name:805-825 ATLANTIC AVENUELab Number:L1960511Project Number:170384501Report Date:12/26/19

Data Qualifiers

 \boldsymbol{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:805-825 ATLANTIC AVENUELab Number:L1960511Project Number:170384501Report Date:12/26/19

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 15

Published Date: 8/15/2019 9:53:42 AM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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Serial No:12261912:54 Service Centers Page **NEW YORK** Date Rec'd Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 ALPHA Job # CHAIN OF Albany, NY 12205: 14 Walker Way **ALPHA** in Lab Tonawanda, NY 14150: 275 Cooper Ave, Suite 105 CUSTODY Billing Information Deliverables Westborough, MA 01581 Mansfield, MA 02048 Project Information 320 Forbes Blvd 8 Walkup Dr. Same as Client Info ASP-B Project Name: 905-825 ATHATIC AVENUE ASP-A TEL: 508-822-9300 TEL: 508-898-9220 FAX: 508-898-9193 FAX: 508-822-3288 EQuIS (1 File) EQuIS (4 File) Project Location: PADDY(YN, NY Other 170 384 501 Project # Client Information Disposal Site Information Regulatory Requirement (Use Project name as Project #) Client: LAN LAN NY Part 375 Please identify below location of NY TOGS 315T SI Project Manager: VI M LEL COL/ COLIN AMELSON Address: applicable disposal facilities. NY CP-51 AWQ Standards FL00 8 ALPHAQuote #: Disposal Facility: Other NY Restricted Use 3400 Turn-Around Time NY Due Date: 1 NY Unrestricted Use Standard NYC Sewer Discharge Other: Rush (only if pre approved) # of Days: Email: KNEL COLP GINGAN COM Sample Filtration ANALYSIS These samples have been previously analyzed by Alpha Done Other project specific requirements/comments: PLEISE CC DATAMANAGENETTO GANGAN. COM Lab to do \$ Preservation Lab to do Please specify Metals or TAL. (Please Specify below) Collection Sampler's Sample ALPHA Lab ID Sample ID Sample Specific Comments Initials Matrix Date Time (Lab Use Only) 12/19/19 LOSII AQ 11:15 EROL-Preservative Code: Container Code Please print clearly, legibly Westboro: Certification No: MA935 Container Type P = Plastic A = None and completely. Samples can Mansfield: Certification No: MA015 A = Amber Glass 8 = HCI not be logged in and V = Vial C = HNO₃ turnaround time clock will not Preservative G = Glass D = H₂SO₄ start until any ambiguities are B = Bacteria Cup E = NaOH resolved. BY EXECUTING Date/Time C = Cube Received By: Date/Time F = MeOH Relinguished By THIS COC, THE CLIENT O = Other G = NaHSO4 HAS READ AND AGREES E = Encore $H = Na_2S_2O_3$ 12/15/19 19:30 TO BE BOUND BY ALPHA'S D = BOD Bottle K/E = Zn Ac/NaOH TERMS & CONDITIONS. 121719 23130 00:20 O = Other (See reverse side.)

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



ANALYTICAL REPORT

Lab Number: L2004751

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Report Date: 02/27/20

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



Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number: L2004751 **Report Date:** 02/27/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2004751-01	SB-107_5.5	SOIL	BROOKLYN, NY	02/03/20 08:59	02/03/20
L2004751-02	SB-107_6.5	SOIL	BROOKLYN, NY	02/03/20 09:00	02/03/20
L2004751-03	SB-107_9	SOIL	BROOKLYN, NY	02/03/20 09:01	02/03/20
L2004751-04	SB-107_9.5	SOIL	BROOKLYN, NY	02/03/20 09:02	02/03/20



Project Name: 805-825 ATLANTIC AVE. Lab Number: L2004751

Project Number: 170384501 **Report Date:** 02/27/20

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: 805-825 ATLANTIC AVE. Lab Number: L2004751
Project Number: 170384501 Report Date: 02/27/20

Case Narrative (continued)

Report Submission

February 27, 2020: This final report includes the results of all requested analyses.

February 13, 2020: This preliminary report includes the results of the Total and TCLP Lead analyses performed

on L2004751-04.

February 10, 2020: This preliminary report includes the results of the TCLP Lead analysis performed on

L2004751-02 and -03.

February 04, 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.

Total Metals

The WG1339683-3 MS recovery for lead (0%), performed on L2004751-04, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1339683-4 Laboratory Duplicate RPD for lead (40%), performed on L2004751-04, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

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

Authorized Signature:

Title: Technical Director/Representative Date: 02/27/20

Melissa Sturgis Melissa Sturgis

ALPHA

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVE. L2004751

Project Number: 170384501 **Report Date:** 02/27/20

SAMPLE RESULTS

Lab ID: Date Collected: 02/03/20 09:00 L2004751-02 Client ID: SB-107_6.5 Date Received: 02/03/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/06/20 22:35

Matrix: Soil 79% Percent Solids:

Date Prep Dilution Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 2.22 mg/l 0.500 0.027 1 02/08/20 09:45 02/10/20 10:00 EPA 3015 1,6010D LC



 Project Name:
 805-825 ATLANTIC AVE.
 Lab Number:
 L2004751

 Project Number:
 170384501
 Report Date:
 02/27/20

SAMPLE RESULTS

 Lab ID:
 L2004751-02
 Date Collected:
 02/03/20 09:00

 Client ID:
 SB-107_6.5
 Date Received:
 02/03/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 79%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηραίνει

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 1370 Lead, Total mg/kg 2.50 0.134 1 02/04/20 07:50 02/04/20 11:14 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVE. L2004751

Project Number: 170384501 **Report Date:**

02/27/20

SAMPLE RESULTS

Lab ID: Date Collected: 02/03/20 09:01 L2004751-03 Client ID: SB-107_9 Date Received: 02/03/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/06/20 22:35

Matrix: Soil 77% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 5.60 mg/l 0.500 0.027 1 02/08/20 09:45 02/10/20 10:19 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVE. L2004751 **Report Date: Project Number:** 170384501 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-03 Date Collected: 02/03/20 09:01 Client ID: SB-107_9 Date Received: 02/03/20 BROOKLYN, NY Field Prep: Sample Location: Not Specified

Sample Depth:

Matrix: Soil 77% Percent Solids:

Analytical Dilution Date Date Prep

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	3320		mg/kg	2.56	0.137	1	02/04/20 07:50	02/04/20 11:19	9 EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVE. Lab Number: L2004751

Project Number: 470384504 Papert Date: 02/27/20

Project Number: 170384501 **Report Date:** 02/27/20

SAMPLE RESULTS

 Lab ID:
 L2004751-04
 Date Collected:
 02/03/20 09:02

 Client ID:
 SB-107_9.5
 Date Received:
 02/03/20

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/11/20 15:25

Matrix: Soil Percent Solids: 80%

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**



Project Name: Lab Number: 805-825 ATLANTIC AVE. L2004751 02/27/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: 02/03/20 09:02 L2004751-04 Client ID: SB-107_9.5 Date Received: 02/03/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 80% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Analyst Total Metals - Mansfield Lab 4440 Lead, Total mg/kg 2.46 0.132 1 02/12/20 18:05 02/12/20 21:18 EPA 3050B 1,6010D BV



Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number:

L2004751

Report Date:

02/27/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Mansfield	d Lab for sample(s):	02-03 B	Batch: WO	G13368	05-1				
Lead, Total	ND	mg/kg	2.00	0.107	1	02/04/20 07:50	02/04/20 10:45	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02-03 Batch: WG1338619-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/08/20 09:45	02/10/20 09:51	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/05/20 05:49

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfi	eld Lab for sample(s):	04 Batch	: WG1:	339683-	1				
Lead, Total	ND	mg/kg	2.00	0.107	1	02/11/20 21:55	02/12/20 20:55	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Mansfield Lab	for sample	e(s): 04	Batch:	WG13399	91-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/12/20 18:55	02/12/20 20:25	1,6010D	BV



Project Name: 805-825 ATLANTIC AVE. **Lab Number:** L2004751

Project Number: 170384501 **Report Date:** 02/27/20

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/11/20 15:25



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number:

L2004751

Report Date:

02/27/20

Parameter	LCS %Recovery Qua	LCSD I %Recovery Qu	%Recovery al Limits	RPD	Qual	RPD Limits				
Total Metals - Mansfield Lab Associated sa	mple(s): 02-03 Batch: WG	1336805-2 SRM Lot Nur	nber: D105-540							
Lead, Total	88	-	71-128	-						
TCLP Metals by EPA 1311 - Mansfield Lab	Associated sample(s): 02-0	3 Batch: WG1338619-2								
Lead, TCLP	103	-	75-125	-		20				
Total Metals - Mansfield Lab Associated sa	mple(s): 04 Batch: WG133	39683-2 SRM Lot Numbe	r: D105-540							
Lead, Total	107	-	71-128	-						
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 Batch: WG1339991-2										
Lead, TCLP	104	-	75-125	-		20				



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number:

L2004751

Report Date: 02/27/20

Parameter	Native Sample	MS Added	MS Found %	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recover Qual Limits	y RPD G	RPD Qual Limits
Total Metals - Mansfield	Lab Associated sam	ple(s): 02-0	3 QC Batch	n ID: WG133	6805-3	QC Sam	ple: L2004693-0	04 Client ID: I	MS Sample	
Lead, Total	9.58	40.9	37.6	68	Q	-	-	75-125	-	20
TCLP Metals by EPA 13	311 - Mansfield Lab A	Associated s	ample(s): 02-	-03 QC Bat	tch ID: V	VG133861	9-3 QC Samp	ole: L2004751-0	2 Client II	D: SB-107_6.
Lead, TCLP	2.22	5.1	7.48	103		-	-	75-125	-	20
Total Metals - Mansfield	Lab Associated sam	ple(s): 04	QC Batch ID	: WG133968	33-3	QC Sample	: L2004751-04	Client ID: SB-	107_9.5	
Lead, Total	4440	48.6	3900	0	Q	-	-	75-125	-	20
TCLP Metals by EPA 13	311 - Mansfield Lab A	Associated s	ample(s): 04	QC Batch	ID: WG	1339991-3	QC Sample:	L2004751-04	Client ID: S	SB-107_9.5
Lead, TCLP	33.7	5.1	37.9	82		-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number:

L2004751

Report Date:

02/27/20

Parameter	Native Sample	Duplic	ate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-0	03 QC Batch ID:	: WG1336805-4	QC Sample:	L2004693-04	Client ID:	DUP Samp	ole
Lead, Total	9.58		12.2	mg/kg	24	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated s	ample(s): 02-03	QC Batch ID: \	NG1338619-4	QC Sample:	L2004751	-02 Client I	D: SB-107_6.5
Lead, TCLP	2.22		2.22	mg/l	0		20
Total Metals - Mansfield Lab Associated sample(s): 04	QC Batch ID: W	/G1339683-4 C	C Sample: L2	2004751-04 Cli	ent ID: SE	3-107_9.5	
Lead, Total	4440		2950	mg/kg	40	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated s	ample(s): 04 Q	C Batch ID: WG	1339991-4	QC Sample: L2	004751-04	Client ID:	SB-107_9.5
Lead, TCLP	33.7		33.0	mg/l	2		20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVE. Lab Number: L2004751

Project Number: 170384501 **Report Date:** 02/27/20

SAMPLE RESULTS

 Lab ID:
 L2004751-02
 Date Collected:
 02/03/20 09:00

 Client ID:
 SB-107_6.5
 Date Received:
 02/03/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	78.5		%	0.100	NA	1	-	02/04/20 02:12	121,2540G	YA



Project Name: 805-825 ATLANTIC AVE. Lab Number: L2004751

Project Number: 170384501 **Report Date:** 02/27/20

SAMPLE RESULTS

 Lab ID:
 L2004751-03
 Date Collected:
 02/03/20 09:01

 Client ID:
 SB-107_9
 Date Received:
 02/03/20

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	76.9		%	0.100	NA	1	-	02/04/20 02:12	121,2540G	YA



Project Name: 805-825 ATLANTIC AVE.

Lab Number:

L2004751

Project Number: 170384501 Report Date:

02/27/20

SAMPLE RESULTS

Lab ID: L2004751-04

SB-107_9.5

Date Collected:

02/03/20 09:02

Sample Location: BROOKLYN, NY

Date Received: Field Prep:

02/03/20 Not Specified

Sample Depth:

Matrix:

Client ID:

Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab)								
Solids, Total	80.3		%	0.100	NA	1	-	02/11/20 10:35	121,2540G	RI



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number:

L2004751

Report Date:

02/27/20

Parameter	Native Sample	Duplicate Sample	Units RPD		Qual RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 02-03 QC Batch	n ID: WG1336773-1	QC Sample:	L2004823-03	Client ID: DUP Sample
Solids, Total	86.4	86.1	%	0	20
General Chemistry - Westborough Lab	Associated sample(s): 04 QC Batch ID	: WG1339479-1 QC	Sample: L20	05908-01 Cli	ient ID: DUP Sample
Solids, Total	80.1	80.7	%	1	20



Serial_No:02272009:44 *Lab Number:* L2004751

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501 **Report Date:** 02/27/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info	rmation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2004751-01A	Glass 60mL/2oz unpreserved	Α	NA		3.6	Υ	Absent		HOLD-METAL(180)
L2004751-01B	Glass 250ml/8oz unpreserved	Α	NA		3.6	Υ	Absent		HOLD-CONTINGENCY(14)
L2004751-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.6	Υ	Absent		PB-TI(180)
L2004751-02B	Glass 250ml/8oz unpreserved	Α	NA		3.6	Υ	Absent		TS(7)
L2004751-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.6	Υ	Absent		PB-CI(180)
L2004751-02X9	Tumble Vessel	Α	NA		3.6	Υ	Absent		-
L2004751-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.6	Υ	Absent		PB-TI(180)
L2004751-03B	Glass 250ml/8oz unpreserved	Α	NA		3.6	Υ	Absent		TS(7)
L2004751-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.6	Υ	Absent		PB-CI(180)
L2004751-03X9	Tumble Vessel	Α	NA		3.6	Υ	Absent		-
L2004751-04A	Glass 60mL/2oz unpreserved	Α	NA		3.6	Υ	Absent		PB-TI(180)
L2004751-04B	Glass 250ml/8oz unpreserved	Α	NA		3.6	Υ	Absent		TS(7)
L2004751-04X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.6	Υ	Absent		PB-CI(180)
L2004751-04X9	Tumble Vessel	Α	NA		3.6	Υ	Absent		-



 Project Name:
 805-825 ATLANTIC AVE.
 Lab Number:
 L2004751

 Project Number:
 170384501
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 02/27/20

GLOSSARY

Acronyms

EDL

EMPC

LOD

LOQ

MS

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.)

 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).

 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.

 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.)

 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.

 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.

- 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

SRM

Report Format: DU Report with 'J' Qualifiers



 Project Name:
 805-825 ATLANTIC AVE.
 Lab Number:
 L2004751

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 170384501
 Report Date:
 02/27/20

 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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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

Report Format: DU Report with 'J' Qualifiers



 Project Name:
 805-825 ATLANTIC AVE.
 Lab Number:
 L2004751

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 170384501
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Data Qualifiers

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.
- $\boldsymbol{RE} \quad$ Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Serial_No:02272009:44

 Project Name:
 805-825 ATLANTIC AVE.
 Lab Number:
 L2004751

 Project Number:
 170384501
 Report Date:
 02/27/20

REFERENCES

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.



Serial_No:02272009:44

Published Date: 2/17/2020 10:46:05 AM

Alpha Analytical, Inc.
Facility: Company-wide
Department: Quality Assurance

Department: Quality Assurance

Title: Certificate/Approval Program Summary

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ID No.:17873

Revision 16

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethy

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, 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 II, Endosulfan III, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

ДІРНА	NEW YORK CHAIN OF CUSTODY	Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Coop	Mahwah, NJ 07430: 35 Whitney Rd, Sulte 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105					ate Rec'd in Lab	2)	ALPHA Job # L 200 4751 Billing Information	
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Location: BEE	ject Name: 805-885 ATCANTIC					ASP-A EQuIS (1 Fil	e)	ASP-E		Same as Client Info
Client Information	THE REAL PROPERTY.			01				Other atory Requir	oment	1195.3		Disposal Site Information
Address: 360	N 31 ST	(Use Project name as Pro Project Manager: \(\times\)\(\times\)		W/0	olin	Arbereu	20			NY Par		Please identify below location of applicable disposal facilities.
Phone: 212 43	9 5400	Turn-Around Time Standard Rush (only if pre approved)	1.00		244	and the same of th		NY Restricted NY Unrestricte NYC Sewer D	ed Use	Other		Disposal Facility: NJ NY Other:
Email: VSBNON@(WAS IN THE OWNER OF THE OWNER OW			# of Days:	JAC.	M	ANAL		ischarge			Sample Filtration
These samples have be Other project specific									Т			Done
Z4 HOUR ON TCLP Please specify Metals	TATON	JOHN PO	, 1 2	s hs	FAT		TAL PB	P 47				Lab to do Preservation Lab to do (Please Specify below)
ALPHA Lab ID (Lab Use Only)	s	ample ID	Colle	ection Time	Sample Matrix	Sampler's Initials	D	77				Sample Specific Comments
04751-01	SB-107	-5.5	2/3/20	8:59	5	TH	X	X				HOUS ALL
००	5B-107	-6.5		01:00								HOW TOLP
03	5B-107			9:01			Ш					HOLDTOLP
04	58-10-	7-9.5		9102			Н		-	_		HOLD ALL
						_	Н	_	-		_	
					\vdash	_	Н	+		-		
						-	+	+				
							+	+	\Box			
			1		1	V	V	V				
Preservative Code: Container Code Westboro: Certification No: MA935 A = None P = Plastic Mansfield: Certification No: MA015 B = HCl A = Amber Glass Mansfield: Certification No: MA015 C = HNO3 V = Vial V = Vial D = H ₂ SO ₄ G = Glass B = Bacteria Cup					Container Type Preservative							Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn AG/NaOH O = Other	By:	2/3/20 14:00			4 AAC 2/3/20 2014				0 14:00	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.		
Form No: 01-25 HC (rev. 30-Sept-2013)							1		1			(See reverse side.)



ANALYTICAL REPORT

Lab Number: L2004923

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/07/20

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L2004923

 Report Date:
 02/07/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2004923-01	SB-107A-SWN_2-4	SOIL	BROOKLYN, NY	02/04/20 07:00	02/04/20
L2004923-02	SB-107A-SWE_2-4	SOIL	BROOKLYN, NY	02/04/20 07:01	02/04/20
L2004923-03	SB-107A-SWS_2-4	SOIL	BROOKLYN, NY	02/04/20 07:02	02/04/20
L2004923-04	SB-107A-SWW_2-4	SOIL	BROOKLYN, NY	02/04/20 07:03	02/04/20
L2004923-05	DUP01_020420	SOIL	BROOKLYN, NY	02/04/20 00:00	02/04/20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923
Project Number: 170384501 Report Date: 02/07/20

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: 805-825 ATLANTIC AVENUE Lab Number: L2004923
Project Number: 170384501 Report Date: 02/07/20

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.

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:

Title: Technical Director/Representative Date: 02/07/20

Melissa Sturgis Melissa Sturgis

ALPHA

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: Date Collected: 02/04/20 07:00 L2004923-01 Client ID: SB-107A-SWN_2-4 Date Received: 02/04/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil 78% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.51 mg/l 0.500 0.027 1 02/06/20 10:57 02/06/20 15:00 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923 **Project Number:** 170384501 **Report Date:**

02/07/20

SAMPLE RESULTS

L2004923-01

Date Collected:

02/04/20 07:00

Client ID: SB-107A-SWN_2-4 Sample Location: BROOKLYN, NY

Date Received: 02/04/20 Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix:

Soil

78% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 649 Lead, Total mg/kg 2.53 0.136 1 02/05/20 21:06 02/06/20 11:30 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923 02/07/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Date Collected: 02/04/20 07:01 L2004923-02 Client ID: SB-107A-SWE_2-4 Date Received: 02/04/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil 92% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/06/20 10:57 02/06/20 15:05 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923 02/07/20

SAMPLE RESULTS

Project Number: Report Date: 170384501

Lab ID: L2004923-02

Client ID: SB-107A-SWE_2-4 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:01 Date Received: 02/04/20 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

92% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Date Prepared	Date Analyzed	Prep Method	Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - M	lansfield Lab										
Lead, Total	7.06		mg/kg	2.05	0.110	1	02/05/20 21:00	6 02/06/20 11:35	EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: Date Collected: L2004923-03 02/04/20 07:02 Client ID: SB-107A-SWS_2-4 Date Received: 02/04/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil 90% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.247 mg/l 0.500 0.027 1 02/06/20 10:57 02/06/20 15:09 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923 02/07/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

L2004923-03

Date Collected:

02/04/20 07:02

Client ID: SB-107A-SWS_2-4 Sample Location: BROOKLYN, NY

Date Received: 02/04/20 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

90% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 95.8 Lead, Total mg/kg 2.11 0.113 1 02/05/20 21:06 02/06/20 11:39 EPA 3050B 1,6010D LC



Not Specified

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: Date Collected: L2004923-04 02/04/20 07:03 Client ID: SB-107A-SWW_2-4 Date Received: 02/04/20 BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil 90% Percent Solids:

Sample Location:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

Field Prep:

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 0.520 mg/l 0.500 0.027 1 02/06/20 10:57 02/06/20 15:14 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:**

02/07/20

SAMPLE RESULTS

L2004923-04

Date Collected:

02/04/20 07:03

Client ID: SB-107A-SWW_2-4 Sample Location: BROOKLYN, NY

Date Received: 02/04/20 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

90% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 506 Lead, Total mg/kg 2.18 0.117 1 02/05/20 21:06 02/06/20 11:43 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: Date Collected: 02/04/20 00:00 L2004923-05 Client ID: DUP01_020420 Date Received: 02/04/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil 82% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.138 mg/l 0.500 0.027 1 02/06/20 10:57 02/06/20 15:18 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 **Report Date:**

02/07/20

SAMPLE RESULTS

L2004923-05

Date Collected: 02/04/20 00:00

Client ID: DUP01_020420 Date Received: 02/04/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix: Soil

82% Percent Solids: Prep **Analytical** Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 130 Lead, Total mg/kg 2.41 0.129 1 02/05/20 21:06 02/06/20 11:47 EPA 3050B 1,6010D LC



L2004923

Lab Number:

Project Name: 805-825 ATLANTIC AVENUE

Project Number: Report Date:

170384501 02/07/20

> **Method Blank Analysis Batch Quality Control**

Dilution Date Analytical **Date Result Qualifier Factor Prepared Analyzed** Method Analyst **Parameter** Units RL **MDL** Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1337596-1 Lead, Total ND 2.00 0.107 02/06/20 09:33 LC mg/kg 1 02/05/20 21:06 1,6010D

Prep Information

Digestion Method: EPA 3050B

Dilution Analytical Date **Date Factor** Method Analyst **Result Qualifier** Units RLMDL **Prepared Analyzed Parameter** TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05 Batch: WG1337830-1 Lead, TCLP ND 0.027 1,6010D В۷ mg/l 0.500 02/06/20 10:57 02/06/20 14:12

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/05/20 05:49



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number:

L2004923

Project Number: 170384501

Report Date:

02/07/20

Parameter	LCS %Recovery Qual	LCSD %Recovery Qual	%Recovery Limits	RPD	Qual	RPD Limits				
Total Metals - Mansfield Lab Associated samp	ole(s): 01-05 Batch: WG1	337596-2 SRM Lot Numbe	er: D105-540							
Lead, Total	97	-	71-128	-						
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 Batch: WG1337830-2										
Lead, TCLP	96	-	75-125	-		20				



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2004923

Report Date: 02/07/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD Qu	RPD al Limits
Total Metals - Mansfield La	ab Associated sam	ple(s): 01-0	5 QC Bat	ch ID: WG133	7596-3	QC Sam	ple: L2005025-0	01 Client ID: MS	S Sample	
Lead, Total	9.36	46.1	39.4	65	Q	-	-	75-125	-	20
TCLP Metals by EPA 1311	- Mansfield Lab A	ssociated sa	ample(s): 0	1-05 QC Bat	ch ID: V	VG1337830	0-3 QC Samp	le: L2004915-01	Client ID:	MS Sample
Lead, TCLP	0.198J	5.1	5.14	101		-	-	75-125	-	20



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2004923

Report Date:

02/07/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual Ri	PD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-0	5 QC Batch ID:	WG1337596-4 QC Sample:	L2005025-01	Client ID:	DUP Sample	
Lead, Total	9.36	8.56	mg/kg	9		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sa	ample(s): 01-05	QC Batch ID: WG1337830-4	QC Sample:	L2004915	5-01 Client ID:	DUP Sample
Lead, TCLP	0.198J	0.200J	mg/l	NC		20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-01 Date Collected: 02/04/20 07:00

Client ID: SB-107A-SWN_2-4 Date Received: 02/04/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	77.8		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

 Lab ID:
 L2004923-02
 Date Collected:
 02/04/20 07:01

 Client ID:
 SB-107A-SWE_2-4
 Date Received:
 02/04/20

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst		
General Chemistry - Westborough Lab												
Solids, Total	92.2		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI		



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-03 Date Collected: 02/04/20 07:02

Client ID: SB-107A-SWS_2-4 Date Received: 02/04/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-04 Date Collected: 02/04/20 07:03

Client ID: SB-107A-SWW_2-4 Date Received: 02/04/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.2		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

 Lab ID:
 L2004923-05
 Date Collected:
 02/04/20 00:00

 Client ID:
 DUP01_020420
 Date Received:
 02/04/20

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab)								
Solids, Total	82.2		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Lab Number: **Project Name:** 805-825 ATLANTIC AVENUE L2004923

Project Number: 170384501 Report Date: 02/07/20

Parameter	Native Sam	ple D	uplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID:	WG1337357-1	QC Sample:	L2004860-01	Client ID:	DUP Sample
Solids, Total	78.0		75.7	%	3		20



Serial_No:02072013:21 *Lab Number:* L2004923

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 02/07/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L2004923-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.5	Υ	Absent		PB-TI(180)	
L2004923-01B	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		TS(7)	
L2004923-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.5	Υ	Absent		PB-CI(180)	
L2004923-01X9	Tumble Vessel	Α	NA		4.5	Υ	Absent		-	
L2004923-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.5	Υ	Absent		PB-TI(180)	
L2004923-02B	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		TS(7)	
L2004923-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.5	Υ	Absent		PB-CI(180)	
L2004923-02X9	Tumble Vessel	Α	NA		4.5	Υ	Absent		-	
L2004923-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.5	Υ	Absent		PB-TI(180)	
L2004923-03B	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		TS(7)	
L2004923-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.5	Υ	Absent		PB-CI(180)	
L2004923-03X9	Tumble Vessel	Α	NA		4.5	Υ	Absent		-	
L2004923-04A	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		PB-TI(180)	
L2004923-04B	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		TS(7)	
L2004923-04X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.5	Υ	Absent		PB-CI(180)	
L2004923-04X9	Tumble Vessel	Α	NA		4.5	Υ	Absent		-	
L2004923-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.5	Υ	Absent		PB-TI(180)	
L2004923-05B	Glass 250ml/8oz unpreserved	Α	NA		4.5	Υ	Absent		TS(7)	
L2004923-05X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.5	Υ	Absent		PB-CI(180)	
L2004923-05X9	Tumble Vessel	Α	NA		4.5	Υ	Absent		-	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2004923 **Report Date: Project Number:** 170384501 02/07/20

GLOSSARY

Acronyms

EDL

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.)

- 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

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

MDI - 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.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - 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:
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 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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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



Project Name:805-825 ATLANTIC AVENUELab Number:L2004923Project Number:170384501Report Date:02/07/20

Data Qualifiers

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.



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2004923

 Project Number:
 170384501
 Report Date:
 02/07/20

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

Serial_No:02072013:21

ID No.:17873 Revision 15

Published Date: 8/15/2019 9:53:42 AM

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Westborough, MA 01581	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 Service Centers Mahwah, NJ 07439; Albany, NY 12205; 1/ Tonawanda, NY 1415	Walker Way 0: 275 Cooper Ave,		Pag	e l		Date R in La	ec'd	2/4/	20	ALPHA Job# L 2004923
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form No: 01-25 HC (rev. 30-	Sept-2013)		1.7		-/0	Con .			With	70-717	(See reverse side.)



ANALYTICAL REPORT

Lab Number: L2005231

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/07/20

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-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L2005231

 Report Date:
 02/07/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2005231-01	SB-107A_FLOOR_13	SOIL	BROOKLYN, NY	02/05/20 07:04	02/05/20
L2005231-02	FB01 020520	WATER	BROOKLYN, NY	02/05/20 14:00	02/05/20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005231

Project Number: 170384501 **Report Date:** 02/07/20

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: 805-825 ATLANTIC AVENUE Lab Number: L2005231

Project Number: 170384501 **Report Date:** 02/07/20

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.

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:

Title: Technical Director/Representative Date: 02/07/20

Melissa Sturgis Melissa Sturgis

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005231 02/07/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

L2005231-01

Date Collected:

02/05/20 07:04

 BV

Client ID: SB-107A_FLOOR_13 Sample Location: BROOKLYN, NY

Date Received: Field Prep:

02/05/20 Not Specified

Sample Depth:

Lab ID:

TCLP/SPLP Ext. Date: 02/06/20 04:30

Matrix:

Soil

90%

Percent Solids: Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP ND mg/l 0.500 0.027 1 02/07/20 09:48 02/07/20 13:42 EPA 3015 1,6010D



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005231

 Project Number:
 170384501
 Report Date:
 02/07/20

SAMPLE RESULTS

Lab ID: L2005231-01 Date Collected: 02/05/20 07:04

Client ID: SB-107A_FLOOR_13 Date Received: 02/05/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 6.46 Lead, Total mg/kg 2.08 0.112 1 02/06/20 07:15 02/06/20 13:05 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005231 **Report Date:** 02/07/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L2005231-02 Date Collected: 02/05/20 14:00 Client ID: FB01_020520 Date Received: 02/05/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/06/20 14:2	9 02/06/20 22:10	EPA 3005A	1,6020B	AM



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005231

Report Date:

02/07/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Mansfield	d Lab for sample(s):	01 Batch	: WG13	337723-	1				
Lead, Total	ND	mg/kg	2.00	0.107	1	02/06/20 07:15	02/06/20 10:56	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	02 Batch	n: WG13	37936-	1				
Lead, Total	ND	mg/l	0.00100	0.00034	1	02/06/20 14:29	02/06/20 20:33	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	1311 - Mansfield Lab 1	for sample	e(s): 01	Batch:	WG13382	28-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/07/20 09:08	02/07/20 11:38	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/05/20 05:49



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005231

Report Date:

Parameter	LCS %Recovery	Qual %	LCSD Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	e(s): 01 Batch:	WG1337723-2	2 SRM Lot N	lumber: D10	5-540			
Lead, Total	93		-		71-128	-		
Total Metals - Mansfield Lab Associated sample	e(s): 02 Batch:	WG1337936-2	2					
Lead, Total	103		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Ass	ociated sample(s	s): 01 Batch:	WG1338228-2	2				
Lead, TCLP	97		-		75-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005231

Report Date:

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	y RPD	Qual	RPD Limits
Total Metals - Mansfield Lab As	ssociated sam	nple(s): 01	QC Batch II	D: WG133772	3-3	QC Sample:	L2004935-06	Clier	nt ID: MS	Sample		
Lead, Total	19.7	42.1	44.1	58	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab As	ssociated sam	nple(s): 02	QC Batch II	D: WG133793	6-3	QC Sample:	L2004890-01	Clier	nt ID: MS	Sample		
Lead, Total	0.00036J	0.51	0.5152	101		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Ma	ansfield Lab A	Associated :	sample(s): 01	QC Batch I	D: WG	1338228-3	QC Sample:	L2004	523-04	Client ID:	MS S	ample
Lead, TCLP	ND	5.1	4.84	95		-	-		75-125	-		20



Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005231

Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG1337	723-4 QC Sample:	L2004935-06	Client ID: D	UP Sample	
Lead, Total	19.7	14.7	mg/kg	29	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02	QC Batch ID: WG1337	936-4 QC Sample:	L2004890-01	Client ID: D	UP Sample	
Lead, Total	0.00036J	0.00041J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sa	ample(s): 01 QC Batch	n ID: WG1338228-4	QC Sample:	L2004523-0	4 Client ID:	DUP Sample
Lead, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005231

Project Number: 170384501 **Report Date:** 02/07/20

SAMPLE RESULTS

Lab ID: L2005231-01 Date Collected: 02/05/20 07:04

Client ID: SB-107A_FLOOR_13 Date Received: 02/05/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.2		%	0.100	NA	1	-	02/06/20 03:05	121,2540G	YA



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005231

Report Date:

<u>Parameter</u>	Native Sample	Duplicate Sam	nple Unit	s RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01 QC Batch	D: WG1337678-1	QC Sample:	L2005314-23	Client ID:	DUP Sample
Solids, Total	83.9	82.0	%	2		20



805-825 ATLANTIC AVENUE L2005231

Project Number: 170384501 **Report Date:** 02/07/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Project Name:

Cooler Custody Seal

A Absent

Container Information					Final	Temp			Frozen		
Conta	ainer ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
L20052	31-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.1	Υ	Absent		PB-TI(180)	
L20052	31-01B	Glass 250ml/8oz unpreserved	Α	NA		3.1	Υ	Absent		TS(7)	
L20052	31-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.1	Υ	Absent		PB-CI(180)	
L20052	31-01X9	Tumble Vessel	Α	NA		3.1	Υ	Absent		-	
L20052	31-02A	Plastic 250ml HNO3 preserved	Α	<2	<2	3.1	Υ	Absent		PB-6020T(180)	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005231

Project Number: 170384501 Report Date: 02/07/20

GLOSSARY

Acronyms

LOQ

MS

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)

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)

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.)

 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.

- 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



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005231

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 170384501
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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.

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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



 Project Name:
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Data Qualifiers

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.



Project Name:805-825 ATLANTIC AVENUELab Number:L2005231Project Number:170384501Report Date:02/07/20

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 15

Pre-Qualtrax Document ID: 08-113

Published Date: 8/15/2019 9:53:42 AM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

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8 Walkup Dr. TEL: 508-898-9220	8 Walkup Dr. 320 Forbes Blvd Project Information							ASP-A	1000	Y AS	Same as Client Info	
TEL: 508-898-9220 FAX: 508-822-9300 FAX: 508-822-3288 Project Name: 805-825 ATTOMIC AVENUE Project Location: BROOKLYN, NY							4 =			Anna Caraca		
					A			EQuIS (1	File)	☐ EC	ulS (4 File)	PO#
Client Information		Project # 170 3	33 MZ	9 (Other				
Client: LANGAN		(Use Project name as Pr					Regulatory Requirement					Disposal Site Information
Address: 360 N 31 ST Project Manager: WM SELLON / COUN ALDERAND ALPHAQuote #:							NY TOGS NY Part 375 AWQ Standards NY CP-51					Please identify below location of applicable disposal facilities.
Phone: ZIZ W		Turn-Around Time	SEE N	1000		THE CO.		NY Restric	led Use	Oth	Disposal Facility:	
Fax: 212 47	en stag	Standard		Due Date	724	2/		NY Unrest	icted Use	_	G1	NJ NY
Email: KSBUON	w cayour. cu	Rush (only if pre approved	1)	# of Days:	TET!	4		NYC Sewe	r Dischar	ge	Other:	
These samples have b	een previously analyz	ed by Alpha					ANALYSIS					Sample Filtration
Other project specific	c requirements/comm	nents:										Done t
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Please specify Metals	s or TAL.											Lab to do
ALCUAL - LIC			T Co	llection		_	PAGE 1	7				(Please Specify below)
ALPHA Lab ID (Lab Use Only)	S	ample ID				Sample Sampler's Matrix Initials						
	00		Date	Time	25.45.00.000	170000000000	r	1	-			Sample Specific Comments e
07721-01	28-10+V	-FL002-13	2/5/20		5	TH	X	X	_			
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				4								1
Removed to the same								_				
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Preservative Code:	Container Code	Westboro: Certification N	In: MADRE					_	+			Total Control
A = None	P = Plastic				Cont	ainer Type						Please print clearly, legibly
B = HCI C = HNO ₃	A = Amber Glass Mansfield: Certification No: MA015 V = Vial							\rightarrow			and completely. Samples can not be logged in and	
D = H ₂ SO ₄	SO ₄ G = Glass Preservative											turnaround time clock will not
E = NaOH	B = Bacteria Cup					2011/03/50/5						start until any ambiguities are
F = MeOH G = NaHSO ₄	Relinduisped by Liare/Lime						Received By: , Date/Time				resolved. BY EXECUTING	
H=Na2S2O3 E=Encore Towas Mouti 2/20 M. 1/3 Mg						DONDEY 4/4 12/5/2000 4:4				THIS COC, THE CLIENT HAS READ AND AGREES		
K/E = Zn Ac/NaOH D = BOD Bottle NCATCLING (AAL) 25hozo 17:30					1/3	DUNC 75/20/90				TO BE BOUND BY ALPHA'S		
0 = Other 2/5/20 2340 /					Marie	nation AM 2/51				20 234	TERMS & CONDITIONS.	
Form No: 01-25 HC (rev. 3	0-Sept-2013)			1			7,	-		11		(See reverse side.)



ANALYTICAL REPORT

Lab Number: L2005583

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/10/20

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L2005583

 Report Date:
 02/10/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2005583-01	WP-SB-01_SWN_1-2	SOIL	BROOKLYN, NY	02/06/20 07:00	02/06/20
L2005583-02	WP-SB-01_SWE_1-2	SOIL	BROOKLYN, NY	02/06/20 07:01	02/06/20
L2005583-03	WP-SB-01_SWS_1-2	SOIL	BROOKLYN, NY	02/06/20 07:02	02/06/20
L2005583-04	WP-SB-01_SWW_1-2	SOIL	BROOKLYN, NY	02/06/20 07:03	02/06/20
L2005583-05	WP-SB-01_FLOOR_5	SOIL	BROOKLYN, NY	02/06/20 07:04	02/06/20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501

Project Number: 170384501

Project Number: 170384501 **Report Date:** 02/10/20

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: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

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.

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:

Title: Technical Director/Representative Date: 02/10/20

Michelle M. Morris

METALS



Date Collected:

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-01

02/06/20 07:00 Client ID: WP-SB-01_SWN_1-2 Date Received: 02/06/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil 79% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 5.98 mg/l 0.500 0.027 1 02/08/20 17:03 02/10/20 11:16 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583 **Report Date:**

Project Number: 170384501

02/10/20

SAMPLE RESULTS

L2005583-01

Date Collected:

02/06/20 07:00

Client ID: WP-SB-01_SWN_1-2 Sample Location: BROOKLYN, NY

Date Received: Field Prep:

02/06/20 Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

Percent Solids:

79% Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Analyst Total Metals - Mansfield Lab 792 Lead, Total mg/kg 2.49 0.134 1 02/07/20 21:02 02/10/20 12:45 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: Date Collected: L2005583-02 02/06/20 07:01 Client ID: WP-SB-01_SWE_1-2 Date Received: 02/06/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil 87% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 1.01 mg/l 0.500 0.027 1 02/08/20 17:47 02/10/20 10:50 EPA 3015 1,6010D LC



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005583

 Project Number:
 170384501
 Report Date:
 02/10/20

SAMPLE RESULTS

 Lab ID:
 L2005583-02
 Date Collected:
 02/06/20 07:01

 Client ID:
 WP-SB-01_SWE_1-2
 Date Received:
 02/06/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 87%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 496 Lead, Total mg/kg 2.27 0.121 1 02/07/20 21:02 02/10/20 12:50 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: Date Collected: L2005583-03 02/06/20 07:02 Client ID: WP-SB-01_SWS_1-2 Date Received: 02/06/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil 80% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units Prepared Analyzed Method RLMDL **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 2.69 mg/l 0.500 0.027 1 02/08/20 17:03 02/10/20 11:33 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583

Project Number: 170384501 **Report Date:**

02/10/20

SAMPLE RESULTS Lab ID: L2005583-03

WP-SB-01_SWS_1-2

Date Collected: Date Received: 02/06/20 07:02

Sample Location: BROOKLYN, NY

02/06/20 Field Prep: Not Specified

Sample Depth:

Client ID:

Matrix:

Soil

20%

Percent Solids:	80%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead Total	362		ma/ka	2 30	0.128	1	02/07/20 21:0	2 02/10/20 12:55	EPA 3050B	1 6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: Date Collected: L2005583-04 02/06/20 07:03

Client ID: WP-SB-01_SWW_1-2 Date Received: 02/06/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil 76% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 19.7 mg/l 0.500 0.027 1 02/08/20 17:03 02/10/20 11:38 EPA 3015 1,6010D LC



02/06/20 07:03

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583 **Project Number:** 170384501 **Report Date:** 02/10/20

Date Collected:

SAMPLE RESULTS

Lab ID: L2005583-04

Client ID: WP-SB-01_SWW_1-2 Date Received: 02/06/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth:

Matrix: Soil 76%

Percent Solids: Prep **Analytical** Dilution Date Date Method

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 2170 Lead, Total mg/kg 2.49 0.133 1 02/07/20 21:02 02/10/20 13:00 EPA 3050B 1,6010D LC



Date Collected:

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2005583 **Report Date:** 02/10/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L2005583-05

02/06/20 07:04 Client ID: WP-SB-01_FLOOR_5 Date Received: 02/06/20 Sample Location: Field Prep: Not Specified BROOKLYN, NY

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil 82% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP 14.7 mg/l 0.500 0.027 1 02/08/20 17:03 02/10/20 11:42 EPA 3015 1,6010D LC



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005583

 Project Number:
 170384501
 Report Date:
 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-05 Date Collected: 02/06/20 07:04

Client ID: WP-SB-01_FLOOR_5 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 82%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Factor Parameter Result Qualifier Units RL Prepared Analyzed Method MDL **Analyst** Total Metals - Mansfield Lab 3520 Lead, Total mg/kg 2.34 0.126 1 02/07/20 21:02 02/10/20 13:05 EPA 3050B 1,6010D LC



L2005583

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/10/20

Lab Number:

Method Blank Analysis

Batch Quality Control

Dilution Date **Date** Analytical **Factor Prepared** Analyzed Method Analyst **Parameter Result Qualifier Units** RL MDL

Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1338489-1

Lead, Total ND LC mg/kg 2.00 0.107 1 02/07/20 21:02 02/10/20 11:37 1,6010D

Prep Information

Digestion Method: **EPA 3050B**

Analytical Dilution **Date Date** Method Analyst **Result Qualifier** RL **Factor Prepared** Analyzed **Parameter Units** MDL TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,03-05 Batch: WG1338737-1 Lead, TCLP ND LC mg/l 0.500 0.027 02/10/20 10:58 1,6010D 02/08/20 17:03

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/05/20 22:54

Dilution Date **Date** Analytical Method Analyst **Factor Prepared Analyzed Result Qualifier Parameter** Units RL MDL TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1338740-1 ND 0.027 02/10/20 10:23 Lead, TCLP mg/l 0.500 1 02/08/20 17:47 1,6010D LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/07/20 16:47



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005583

Report Date:

02/10/20

Parameter	LCS %Recovery Qual	LCSD %Recovery Qua	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated	sample(s): 01-05 Batch: WG	1338489-2 SRM Lot Numb	per: D105-540			
Lead, Total	93	-	71-128	-		
TCLP Metals by EPA 1311 - Mansfield La	ab Associated sample(s): 01,03	3-05 Batch: WG1338737-2				
Lead, TCLP	107	-	75-125	-		20
TCLP Metals by EPA 1311 - Mansfield La	ab Associated sample(s): 02	Batch: WG1338740-2				
Lead, TCLP	106	-	75-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005583

Report Date:

02/10/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Recovery Qual Limits	RPD Qua	RPD Il Limits
Total Metals - Mansfield Lab As	ssociated sam	nple(s): 01-05	QC Bate	ch ID: WG1338	3489-3	WG133848	9-4 QC Samp	ole: L2005219-08	Client ID:	MS Sample
Lead, Total	28.5	42.5	84.6	132	Q	72.2	106	75-125	16	20
TCLP Metals by EPA 1311 - M: 01_SWN_1-2	ansfield Lab A	Associated sa	mple(s): 0	1,03-05 QC I	Batch II	D: WG13387	737-3 QC Sa	mple: L2005583	-01 Client II	D: WP-SB-
Lead, TCLP	5.98	5.1	11.0	98		-	-	75-125	-	20
TCLP Metals by EPA 1311 - Ma	ansfield Lab A	Associated sa	mple(s): 0	2 QC Batch	D: WG	1338740-3	QC Sample:	L2003923-01 (Client ID: MS	Sample
Lead, TCLP	0.616	5.1	6.07	107		-	-	75-125	-	20



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2005583

Report Date:

02/10/20

Parameter		Native Samp	ole Duplicate Sa	mple Units	RPD	Qual F	RPD Limits
TCLP Metals by EPA 1311 - 01_SWN_1-2	Mansfield Lab	Associated sample(s): 01,0	03-05 QC Batch ID: WG	1338737-4 QC Sa	ample: L2005	583-01 Clien	t ID: WP-SB-
Lead, TCLP		5.98	5.89	mg/l	2		20
TCLP Metals by EPA 1311 -	Mansfield Lab	Associated sample(s): 02	QC Batch ID: WG133874	40-4 QC Sample:	L2003923-01	Client ID: D	OUP Sample
Lead, TCLP		0.616	0.579	mg/l	6		20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-01 Date Collected: 02/06/20 07:00

Client ID: WP-SB-01_SWN_1-2 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	78.5		%	0.100	NA	1	-	02/07/20 13:46	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-02 Date Collected: 02/06/20 07:01

Client ID: WP-SB-01_SWE_1-2 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	87.4		%	0.100	NA	1	-	02/07/20 13:46	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-03 Date Collected: 02/06/20 07:02

Client ID: WP-SB-01_SWS_1-2 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	79.8		%	0.100	NA	1	-	02/07/20 13:46	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-04 Date Collected: 02/06/20 07:03

Client ID: WP-SB-01_SWW_1-2 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	75.8		%	0.100	NA	1	-	02/07/20 13:46	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 **Report Date:** 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-05 Date Collected: 02/06/20 07:04

Client ID: WP-SB-01_FLOOR_5 Date Received: 02/06/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - \	Westborough Lab									
Solids, Total	81.9		%	0.100	NA	1	-	02/07/20 13:46	121,2540G	RI



L2005583

Lab Number:

Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE Batch Quality Cont

Parameter	Native Sam	ple D	ouplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-05	QC Batch ID:	WG1338388-1	QC Sample:	L2005370-01	Client ID:	DUP Sample
Solids, Total	86.4		84.1	%	3		20



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 02/10/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Container Information

Cooler Custody Seal

A Absent

Container into	ormation		Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2005583-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.4	Υ	Absent		PB-TI(180)
L2005583-01B	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		TS(7)
L2005583-01W	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.4	Υ	Absent		PB-CI(180)
L2005583-01X9	Tumble Vessel	Α	NA		4.4	Υ	Absent		-
L2005583-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.4	Υ	Absent		PB-TI(180)
L2005583-02B	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		TS(7)
L2005583-02W	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.4	Υ	Absent		PB-CI(180)
L2005583-02X9	Tumble Vessel	Α	NA		4.4	Υ	Absent		-
L2005583-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.4	Υ	Absent		PB-TI(180)
L2005583-03B	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		TS(7)
L2005583-03W	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.4	Υ	Absent		PB-CI(180)
L2005583-03X9	Tumble Vessel	Α	NA		4.4	Υ	Absent		-
L2005583-04A	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		PB-TI(180)
L2005583-04B	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		TS(7)
L2005583-04W	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.4	Υ	Absent		PB-CI(180)
L2005583-04X9	Tumble Vessel	Α	NA		4.4	Υ	Absent		-
L2005583-05A	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		PB-TI(180)
L2005583-05B	Glass 250ml/8oz unpreserved	Α	NA		4.4	Υ	Absent		TS(7)
L2005583-05W	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.4	Υ	Absent		PB-CI(180)
L2005583-05X9	Tumble Vessel	Α	NA		4.4	Υ	Absent		-



Project Name:805-825 ATLANTIC AVENUELab Number:L2005583Project Number:170384501Report Date:02/10/20

GLOSSARY

Acronyms

EDL

LOQ

MS

NP

RPD

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.)

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.)

 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.

 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.

- 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.

- 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 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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005583

 Project Number:
 170384501
 Report Date:
 02/10/20

 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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_main_section} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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

Report Format: DU Report with 'J' Qualifiers



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2005583

 Project Number:
 170384501
 Report Date:
 02/10/20

Data Qualifiers

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: 805-825 ATLANTIC AVENUE Lab Number: L2005583

Project Number: 170384501 Report Date: 02/10/20

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Published Date: 8/15/2019 9:53:42 AM Department: Quality Assurance Title: Certificate/Approval Program Summary

Page 1 of 1

ID No.:17873

Revision 15

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, 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 Kieldahl-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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Pre-Qualtrax Document ID: 08-113 Document Type: Form

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ANALYTICAL REPORT

Lab Number: L2007070

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/20/20

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L2007070

 Report Date:
 02/20/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2007070-01	SB-107_WA_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:00	02/17/20
L2007070-02	SB-107_WA_8-9	SOIL	BROOKLYN, NEW YORK	02/17/20 07:01	02/17/20
L2007070-03	SB-107_WB_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:02	02/17/20
L2007070-04	SB-107_WB_8-9	SOIL	BROOKLYN, NEW YORK	02/17/20 07:03	02/17/20
L2007070-05	SB-107_WC_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:04	02/17/20
L2007070-06	SB-107_WC_8-9	SOIL	BROOKLYN, NEW YORK	02/17/20 07:05	02/17/20
L2007070-07	SB-107_EA_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:06	02/17/20
L2007070-08	SB-107_EA_8-9	SOIL	BROOKLYN, NEW YORK	02/17/20 07:07	02/17/20
L2007070-09	SB-107_EB_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:08	02/17/20
L2007070-10	SB-107_EB_3-4	SOIL	BROOKLYN, NEW YORK	02/17/20 07:09	02/17/20
L2007070-11	SB-107_FLOOR_12	SOIL	BROOKLYN, NEW YORK	02/17/20 07:10	02/17/20
L2007070-12	WP-SB-01_D2_10	SOIL	BROOKLYN, NEW YORK	02/17/20 07:11	02/17/20
L2007070-13	WP-SB-01_E1_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:12	02/17/20
L2007070-14	WP-SB-01_E1_3-4	SOIL	BROOKLYN, NEW YORK	02/17/20 07:13	02/17/20
L2007070-15	WP-SB-01_F1_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:14	02/17/20
L2007070-16	WP-SB-01_SWN_1-2	SOIL	BROOKLYN, NEW YORK	02/17/20 07:15	02/17/20
L2007070-17	WP-SB-01_SWN_10	SOIL	BROOKLYN, NEW YORK	02/17/20 07:16	02/17/20
L2007070-18	WP-SB-01_FLOOR_10	SOIL	BROOKLYN, NEW YORK	02/17/20 07:17	02/17/20
L2007070-19	WP-SB-01_C2_10	SOIL	BROOKLYN, NEW YORK	02/17/20 07:18	02/17/20
L2007070-20	FB01_021720	WATER	BROOKLYN, NEW YORK	02/17/20 12:00	02/17/20
L2007070-21	DUP01_021720	SOIL	BROOKLYN, NEW YORK	02/17/20 00:00	02/17/20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 Report Date: 02/20/20

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: 805-825 ATLANTIC AVENUE Lab Number: L2007070
Project Number: 170384501 Report Date: 02/20/20

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.

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:

Title: Technical Director/Representative Date: 02/20/20

Michelle M. Morris

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

02/20/20

Lab ID: Client ID:

L2007070-01 SB-107_WA_1-2 Date Collected: Date Received: 02/17/20 07:00

LC

Sample Location:

BROOKLYN, NEW YORK

Field Prep:

02/17/20 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

82% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.078 mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 11:30 EPA 3015 1,6010D



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-01
 Date Collected:
 02/17/20 07:00

 Client ID:
 SB-107_WA_1-2
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 82%

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

 Parameter
 Result
 Qualifier
 Units
 RL
 MDL
 Factor
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 Analyse
 Method
 Analyst

 Total Metals - Mansfield Lab

 Lead, Total
 42.5
 mg/kg
 2.36
 0.127
 1
 02/18/20 19:46 02/19/20 03:30
 EPA 3050B
 1,6010D
 BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:**

Project Number: 170384501

SAMPLE RESULTS

02/20/20

Lab ID: L2007070-02 Client ID: SB-107_WA_8-9 Date Collected: Date Received: 02/17/20 07:01 02/17/20

Sample Location:

BROOKLYN, NEW YORK

Field Prep:

Not Specified

LC

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

Percent Solids:

89%

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.272 mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 11:47 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number:** 170384501 02/20/20

Report Date:

SAMPLE RESULTS

Date Collected:

02/17/20 07:01

Client ID: SB-107_WA_8-9

Date Received:

02/17/20

BROOKLYN, NEW YORK Sample Location:

L2007070-02

Field Prep: Not Specified

Sample Depth:

Lab ID:

Matrix:

Soil

89% Percent Solids:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	racioi	Prepared	Analyzeu	wethod	Welliou	Analyst
Total Metals - N	Mansfield Lab										
Lead, Total	206		mg/kg	2.22	0.119	1	02/18/20 19:40	6 02/19/20 03:53	EPA 3050B	1,6010D	BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: Client ID: L2007070-03 SB-107_WB_1-2 Date Collected: Date Received: 02/17/20 07:02

Sample Location:

BROOKLYN, NEW YORK

Qualifier

Units

RL

Field Prep:

02/17/20 Not Specified

LC

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Parameter

Soil

Result

88% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor** MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.115 mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 11:51 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number: Report Date:** 02/20/20

170384501

SAMPLE RESULTS

Lab ID: L2007070-03 Date Collected: 02/17/20 07:02 Client ID: SB-107_WB_1-2 Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Analyst Total Metals - Mansfield Lab Lead, Total 159 mg/kg 2.16 0.116 1 02/18/20 19:46 02/19/20 03:57 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:** 02/20/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L2007070-04 Client ID: SB-107_WB_8-9

BROOKLYN, NEW YORK

02/17/20 07:03

Date Received: 02/17/20 Field Prep: Not Specified

Date Collected:

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil 82% Percent Solids:

Sample Location:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL

Analyst TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.378 mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 11:56 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L2007070-04

Client ID: SB-107_WB_8-9 Date Collected: 02/17/20 07:03 Date Received: 02/17/20

Sample Location:

BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

82% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 926 Lead, Total mg/kg 2.40 0.129 1 02/18/20 19:46 02/19/20 04:16 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L2007070-05 Client ID:

SB-107_WC_1-2

Date Collected:

02/17/20 07:04

LC

Date Received:

02/17/20

BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Sample Location:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

84% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor**

Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.157 mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 12:51 EPA 3015 1,6010D



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-05
 Date Collected:
 02/17/20 07:04

 Client ID:
 SB-107_WC_1-2
 Date Received:
 02/17/20

 Sample Location:
 BROOKLYN, NEW YORK
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 84%

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 110 mg/kg 2.34 0.125 1 02/18/20 19:46 02/19/20 04:20 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

SAMPLE RESULTS

Project Number: 170384501 **Report Date:**

02/20/20

Lab ID: L2007070-06

SB-107_WC_8-9

Date Collected: Date Received: 02/17/20 07:05

Sample Location:

BROOKLYN, NEW YORK

J

mg/l

0.500

Field Prep:

02/17/20 Not Specified

1,6010D

LC

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

02/20/20 09:28 02/20/20 12:55 EPA 3015

Matrix:

Lead, TCLP

Client ID:

Soil

84%

0.118

Percent Solids:	84%					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
TCLP Metals by Ef	PA 1311 -	Mansfield I	ab								

1

0.027



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Project Number: 170384501 **Report Date:**

02/20/20

SAMPLE RESULTS

02/17/20 07:05

Client ID:

SB-107_WC_8-9

L2007070-06

Date Collected: Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

84% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor** RL MDL Prepared Analyzed Method

Parameter Result Qualifier Units **Analyst** Total Metals - Mansfield Lab Lead, Total 124 mg/kg 2.29 0.123 1 02/18/20 19:46 02/19/20 04:25 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Report Date:

Project Number: 170384501

SAMPLE RESULTS

02/17/20 07:06

Lab ID: L2007070-07 Client ID: SB-107_EA_1-2 Date Collected: Date Received:

02/17/20

1,6010D

LC

Sample Location: BROOKLYN, NEW YORK Field Prep:

Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

92% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/20/20 09:28 02/20/20 13:00 EPA 3015



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:**

Project Number: 170384501

02/20/20

SAMPLE RESULTS Lab ID: L2007070-07

Date Collected:

02/17/20 07:06

Client ID: SB-107_EA_1-2 Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

Percent Solids:

92% Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method

Analyst Total Metals - Mansfield Lab 9.26 Lead, Total mg/kg 2.13 0.114 1 02/18/20 19:46 02/19/20 04:29 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Report Date:

Project Number: 170384501

SAMPLE RESULTS

02/17/20 07:07

Lab ID: L2007070-08 Client ID: SB-107_EA_8-9 Date Collected: Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil Percent Solids:

84%

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analys	Parameter		Qualifier	Units		MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Method	Analyst
---	-----------	--	-----------	-------	--	-----	--------------------	------------------	------------------	----------------	--------	---------

TCLP Metals by	EPA 1311 - N	1ansfield	Lab						
Lead, TCLP	0.034	J	mg/l	0.500	0.027	1	02/20/20 09:28 02/20/20 13:04 EPA 3015	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Project Number: 170384501 **Report Date:**

02/20/20

SAMPLE RESULTS

mg/kg

2.29

Date Collected:

02/17/20 07:07

1,6010D

 BV

Lab ID: L2007070-08 Client ID: SB-107_EA_8-9

Date Received:

02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

02/18/20 19:46 02/19/20 04:34 EPA 3050B

Sample Depth:

Matrix:

Lead, Total

Soil

15.1

84% Percent Solids:

reiterit Solius.	0470					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										

1

0.123



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:** 02/20/20

Project Number: 170384501

SAMPLE RESULTS

Date Collected:

02/17/20 07:08

L2007070-09 Client ID: SB-107_EB_1-2

Date Received:

02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep:

Not Specified

LC

Sample Depth:

Lab ID:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

92% Percent Solids:

Prep Dilution Date Date **Analytical**

Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.066 mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:08 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Date Collected:

02/17/20 07:08

L2007070-09 Client ID: SB-107_EB_1-2

Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

92% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab Lead, Total 21.6 mg/kg 2.10 0.113 1 02/18/20 19:46 02/19/20 04:39 EPA 3050B 1,6010D BV



Not Specified

1,6010D

LC

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:** 02/20/20

Project Number: 170384501

ND

SAMPLE RESULTS

Lab ID: L2007070-10 Date Collected: 02/17/20 07:09 Client ID: SB-107_EB_3-4 Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep:

mg/l

0.500

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Lead, TCLP

84% Percent Solids: Prep Dilution Date Date **Analytical**

0.027

Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst** TCLP Metals by EPA 1311 - Mansfield Lab

1

02/20/20 09:58 02/20/20 13:13 EPA 3015



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number:** 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-10 Date Collected: 02/17/20 07:09 Client ID: SB-107_EB_3-4 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Soil

Matrix: 84% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 4.86 Lead, Total mg/kg 2.36 0.126 1 02/18/20 19:46 02/19/20 04:43 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

SAMPLE RESULTS

Project Number: 170384501 **Report Date:**

02/20/20

Lab ID: L2007070-11

SB-107_FLOOR_12

Date Collected: Date Received: 02/17/20 07:10 02/17/20

LC

Sample Location:

BROOKLYN, NEW YORK

Field Prep:

Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Client ID:

Soil

89% Percent Solids:

						Dilution	Date	Date	Prep	Anaiyticai	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by EPA 1311 - Mansfield Lab	

ND 0.500 1,6010D Lead, TCLP mg/l 0.027 1 02/20/20 09:58 02/20/20 13:17 EPA 3015



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-11 Date Collected: 02/17/20 07:10

Client ID: SB-107_FLOOR_12 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 89%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 7.66 Lead, Total mg/kg 2.12 0.114 1 02/18/20 19:46 02/19/20 04:48 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L2007070-12

WP-SB-01_D2_10

Date Collected: Date Received: 02/17/20 07:11

Sample Location:

BROOKLYN, NEW YORK

Qualifier

Units

Field Prep:

02/17/20 Not Specified

Method

Analyst

LC

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Method

Analyzed

Matrix:

Parameter

Client ID:

Soil

Result

Percent Solids:

90% Prep Dilution Date Date **Analytical**

Prepared

Factor

MDL

RL

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP ND mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:21 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

02/17/20 07:11

Client ID:

WP-SB-01_D2_10

L2007070-12

Date Collected: Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

Percent Solids:

90% Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 3.70 Lead, Total mg/kg 2.20 0.118 1 02/18/20 19:46 02/19/20 04:52 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

170384501

Report Date:

Date Collected:

Project Number:

SAMPLE RESULTS

02/17/20 07:12

LC

Lab ID: L2007070-13 Client ID:

WP-SB-01_E1_1-2

Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

90% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units Prepared Analyzed Method RLMDL **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.345 mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:26 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number:** 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: Date Collected: L2007070-13 02/17/20 07:12 Client ID: WP-SB-01_E1_1-2 Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil 90% Percent Solids:

Prep **Analytical** Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 98.7 Lead, Total mg/kg 2.20 0.118 1 02/18/20 19:46 02/19/20 05:11 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:** 02/20/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L2007070-14 02/17/20 07:13 Client ID: WP-SB-01_E1_3-4 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

91% Percent Solids: Prep Dilution Date Date **Analytical**

Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst** TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:30 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number: Report Date:** 02/20/20

170384501

SAMPLE RESULTS Lab ID: L2007070-14

Date Collected:

02/17/20 07:13

Client ID: WP-SB-01_E1_3-4 Sample Location:

Date Received:

02/17/20

BROOKLYN, NEW YORK

Field Prep:

Not Specified

Sample Depth:

Matrix:

Soil

91% Percent Solids:

Percent Solids.	3170					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
T / 184 / 1 84	<i></i>										
Total Metals - Man	sfield Lab										
Lead, Total	4.45		mg/kg	2.08	0.112	1	02/18/20 19:4	6 02/19/20 05:10	6 EPA 3050B	1,6010D	BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

170384501

Report Date:

Project Number:

SAMPLE RESULTS

Date Collected:

02/17/20 07:14

Client ID:

Lab ID:

WP-SB-01_F1_1-2

L2007070-15

Date Received:

02/17/20

Sample Location:

BROOKLYN, NEW YORK

Field Prep:

Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Soil

Percent Solids:

85%

Dilution **Analytical**

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

TCLP Metals by	EPA 1311 - N	/lansfield	Lab						
Lead TCLP	0.337	,	ma/l	0.500	0.027	4	02/20/20 09·58 02/20/20 13·44 FPA 3015	1.6010D	



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Date Collected:

Lab ID: L2007070-15

Client ID: WP-SB-01_F1_1-2 Date Received: 02/17/20

02/17/20 07:14

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

85% Percent Solids:

i diddin ddiidd.						Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - I	Mansfield Lab										
Lead, Total	379		mg/kg	2.21	0.118	1	02/18/20 19:40	6 02/19/20 05:20	EPA 3050B	1,6010D	BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Report Date:

Project Number: 170384501

Factor

02/20/20

SAMPLE RESULTS

RL

Client ID: WP-SB-01_SWN_1-2 Date Collected: Date Received: 02/17/20 07:15

Sample Location: BROOKLYN, NEW YORK

Qualifier

Units

L2007070-16

Field Prep:

02/17/20 Not Specified

Sample Depth:

Lab ID:

Parameter

TCLP/SPLP Ext. Date: 02/18/20 06:20

Analyzed

Prep

Method

Matrix: Soil Percent Solids:

73%

Result

Dilution Date Date

Prepared

Analytical Method **Analyst**

LC

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP 0.895 mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:48 EPA 3015 1,6010D

MDL



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-16 Date Collected: 02/17/20 07:15

Client ID: WP-SB-01_SWN_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 73%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηραίνει

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 470 Lead, Total mg/kg 2.71 0.145 1 02/18/20 19:46 02/19/20 05:25 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Report Date:

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L2007070-17

Client ID: WP-SB-01_SWN_10 Sample Location: BROOKLYN, NEW YORK Date Collected: Date Received: 02/17/20 07:16 02/17/20

Field Prep:

Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil 90% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units Prepared Analyzed Method RLMDL **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 13:52 EPA 3015 1,6010D LC



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-17 Date Collected: 02/17/20 07:16

Client ID: WP-SB-01_SWN_10 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Dilution Date Prep Analytical
Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Parameter Result Qualifier Units RL MDL Factor Prepared Analyzed Method Method Analyst

Total Metals - Mansfield Lab

Lead, Total 6.60 mg/kg 2.17 0.116 1 02/18/20 19:46 02/19/20 05:29 EPA 3050B 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

mg/l

02/20/20

Lab ID: L2007070-18

Client ID: WP-SB-01_FLOOR_10 Sample Location:

Date Collected: Date Received: 02/17/20 07:17

1,6010D

LC

BROOKLYN, NEW YORK Field Prep:

0.500

02/17/20 Not Specified

Sample Depth:

Lead, TCLP

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Percent Solids:

Soil

90%

ND

02/20/20 09:58 02/20/20 13:57 EPA 3015

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units Prepared Analyzed Method RLMDL **Analyst** TCLP Metals by EPA 1311 - Mansfield Lab

1

0.027



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number: Report Date:** 02/20/20

170384501

SAMPLE RESULTS

Lab ID: Date Collected: L2007070-18 02/17/20 07:17 Client ID: WP-SB-01_FLOOR_10 Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil 90% Percent Solids:

Prep Analytical Dilution Date Date Method

Factor Parameter Result Qualifier Units RL Prepared Analyzed Method MDL **Analyst** Total Metals - Mansfield Lab Lead, Total 15.2 mg/kg 2.14 0.114 1 02/18/20 19:46 02/19/20 05:34 EPA 3050B 1,6010D BV



Not Specified

Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Report Date:** 02/20/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: Date Collected: L2007070-19 02/17/20 07:18 Client ID: WP-SB-01_C2_10 Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil 89%

Sample Depth:

Percent Solids: Prep Dilution Date Date **Analytical** Method **Factor** Prepared Analyzed Method

Parameter Result Qualifier Units MDL RL**Analyst** TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 14:01 EPA 3015 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 **Project Number:** 170384501 02/20/20

Report Date:

SAMPLE RESULTS

Lab ID: L2007070-19

Client ID: WP-SB-01_C2_10 Date Collected: Date Received: 02/17/20 07:18

Sample Location:

Field Prep:

02/17/20

BROOKLYN, NEW YORK

Not Specified

Analytical

Sample Depth:

Matrix:

Soil

89%

Percent Solids:

Prep Dilution Date Date

Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab 71.0 Lead, Total mg/kg 2.12 0.114 1 02/18/20 19:46 02/19/20 05:38 EPA 3050B 1,6010D BV



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

SAMPLE RESULTS

Lab ID:L2007070-20Date Collected:02/17/20 12:00Client ID:FB01_021720Date Received:02/17/20Sample Location:BROOKLYN, NEW YORKField Prep:Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mar	nsfield Lab										
Lead, Total	ND		mg/l	0.010	0.003	1	02/19/20 12:1	6 02/19/20 18:26	EPA 3005A	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070

Project Number: 170384501

SAMPLE RESULTS

Report Date:

02/20/20

Lab ID: L2007070-21

DUP01_021720

Date Collected: Date Received: 02/17/20 00:00

LC

Sample Location:

BROOKLYN, NEW YORK

Field Prep:

02/17/20 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix:

Client ID:

Soil

83% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units MDL Prepared Analyzed Method RL**Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.206 mg/l 0.500 0.027 1 02/20/20 09:58 02/20/20 14:05 EPA 3015 1,6010D



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2007070 02/20/20

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

Lab ID: L2007070-21 Client ID: DUP01_021720 Date Collected: Date Received: 02/17/20 00:00

Sample Location: BROOKLYN, NEW YORK

02/17/20 Field Prep: Not Specified

Sample Depth:

Matrix:

Soil

83% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 79.1 Lead, Total mg/kg 2.39 0.128 1 02/18/20 19:46 02/19/20 05:43 EPA 3050B 1,6010D BV



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2007070

Report Date:

02/20/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Man	sfield Lab for sample(s):	20 Batcl	h: WG1	341931-	1				
Lead Total	ND	ma/l	0.010	0.003	1	02/19/20 12:16	02/19/20 18:08	1 6010D	LC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield	Lab for sample(s):	01-19,21	Batch:	WG134	1984-1				
Lead, Total	ND	mg/kg	2.00	0.107	1	02/18/20 19:46	02/19/20 03:21	1,6010D	BV

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
TCLP Metals by EP	A 1311 - Mansfield Lab	for sample	e(s): 01-	19,21	Batch: WG	1342624-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 11:21	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/17/20 05:50



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L2007070

Report Date: 02/20/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample	e(s): 20 Batch:	WG13419	31-2					
Lead, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample	e(s): 01-19,21 E	Batch: WG	1341984-2 SRN	1 Lot Numb	er: D105-540			
Lead, Total	98		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Ass	ociated sample(s	s): 01-19,2	1 Batch: WG134	2624-2				
Lead, TCLP	89		-		75-125	-		20



Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2007070

Report Date: 02/20/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery		Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab A	ssociated sam	ple(s): 20	QC Batch	ID: WG134193	1-3	QC Sample	: L2007070-20	Client	ID: FB01_	_021720)	
Lead, Total	ND	0.51	0.503	99		-	-		75-125	-		20
Total Metals - Mansfield Lab A	ssociated sam	ple(s): 01-1	19,21 QC	Batch ID: WG1	341984	1-3 QC S	ample: L20070	70-01	Client ID:	SB-107	_WA_	1-2
Lead, Total	42.5	48.9	83.3	83		-	-		75-125	-		20
TCLP Metals by EPA 1311 - M 107_WA_1-2	lansfield Lab A	ssociated s	sample(s): 0)1-19,21 QC I	Batch II	D: WG1342	:624-3 QC S	ample: L	_2007070-0)1 Clie	ent ID:	SB-
Lead, TCLP	0.078J	5.1	4.62	90		-	-		75-125	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2007070

Report Date:

02/20/20

Parameter		Native Sample	Duplicate Sample	Units	RPD Qua	I RPD Limits
Total Metals - Mansfield Lab	Associated sample(s): 20	QC Batch ID: WG13	41931-4 QC Sample: L20	007070-20 Clier	nt ID: FB01_02	1720
Lead, Total		ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab	Associated sample(s): 01	-19,21 QC Batch ID:	WG1341984-4 QC Sampl	e: L2007070-01	I Client ID: SE	3-107_WA_1-2
Lead, Total		42.5	48.4	mg/kg	13	20
TCLP Metals by EPA 1311 - N 107_WA_1-2	Mansfield Lab Associated	sample(s): 01-19,21	QC Batch ID: WG1342624	-4 QC Sample	: L2007070-01	Client ID: SB-
Lead, TCLP		0.078J	0.065J	mg/l	NC	20



INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-01
 Date Collected:
 02/17/20 07:00

 Client ID:
 SB-107_WA_1-2
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	81.7		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-02
 Date Collected:
 02/17/20 07:01

 Client ID:
 SB-107_WA_8-9
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result C	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	89.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-03 Date Collected: 02/17/20 07:02

Client ID: SB-107_WB_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry	- Westborough Lab									
Solids, Total	87.9		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-04 Date Collected: 02/17/20 07:03

Client ID: SB-107_WB_8-9 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	82.3		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-05 Date Collected: 02/17/20 07:04

Client ID: SB-107_WC_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	84.3		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-06 Date Collected: 02/17/20 07:05

Client ID: SB-107_WC_8-9 Date Received: 02/17/20
Semple Legition: RROOKLYN NEW YORK

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	- Westborough Lab									
Solids, Total	84.4		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-07
 Date Collected:
 02/17/20 07:06

 Client ID:
 SB-107_EA_1-2
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	92.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-08 Date Collected: 02/17/20 07:07

Client ID: SB-107_EA_8-9 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	84.3		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-09 Date Collected: 02/17/20 07:08

Client ID: SB-107_EB_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	92.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-10
 Date Collected:
 02/17/20 07:09

 Client ID:
 SB-107_EB_3-4
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	84.3		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-11 Date Collected: 02/17/20 07:10

Client ID: SB-107_FLOOR_12 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result Qua	alifier (Jnits	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	89.3		%	0.100	NA	1	=	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-12
 Date Collected:
 02/17/20 07:11

 Client ID:
 WP-SB-01_D2_10
 Date Received:
 02/17/20

 Sample Location:
 BROOKLYN, NEW YORK
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Westborough Lab									
Solids, Total	90.4		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-13 Date Collected: 02/17/20 07:12

Client ID: WP-SB-01_E1_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	90.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-14
 Date Collected:
 02/17/20 07:13

 Client ID:
 WP-SB-01_E1_3-4
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab								
Solids, Total	91.3	%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-15
 Date Collected:
 02/17/20 07:14

 Client ID:
 WP-SB-01_F1_1-2
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	85.1		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-16 Date Collected: 02/17/20 07:15

Client ID: WP-SB-01_SWN_1-2 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	73.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-17 Date Collected: 02/17/20 07:16

Client ID: WP-SB-01_SWN_10 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	90.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-18 Date Collected: 02/17/20 07:17

Client ID: WP-SB-01_FLOOR_10 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result Qu	ıalifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	89.7		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-19 Date Collected: 02/17/20 07:18

Client ID: WP-SB-01_C2_10 Date Received: 02/17/20 Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	88.6		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2007070

Project Number: 170384501 **Report Date:** 02/20/20

SAMPLE RESULTS

 Lab ID:
 L2007070-21
 Date Collected:
 02/17/20 00:00

 Client ID:
 DUP01_021720
 Date Received:
 02/17/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	82.7		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2007070

Report Date:

02/20/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
General Chemistry - Westborough Lab Associated samp 107_WA_1-2	le(s): 01-19,21	QC Batch ID: WG1341729-1	QC Sample:	L2007070-0	01 Client ID: SB-
Solids, Total	81.7	83.1	%	2	20



Serial_No:02202015:50 *Lab Number:* L2007070

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 02/20/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent B Absent

Container Info		Initial	Final	Temp	·_		Frozen		
Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2007070-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-01B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-01X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-02A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-02B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-02X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-02X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-03B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-03X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-04A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-04B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-04X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-04X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-05A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-05B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-05X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-05X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-06A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-06B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)



Lab Number: L2007070

Report Date: 02/20/20

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2007070-06X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-06X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-07A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-07B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-07X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-07X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-08A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-08B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-08X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-08X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-09A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-09B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-09X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-09X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-10A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-10B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-10X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-10X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-11A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-11B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-11X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-11X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-12A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-12B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-12X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-12X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-13A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-13B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)



Lab Number: L2007070

Report Date: 02/20/20

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2007070-13X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-13X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-14A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-14B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-14X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-14X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-15A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-15B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-15X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-15X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-16A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)
L2007070-16B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-16X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-16X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-
L2007070-17A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-17B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-17X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-17X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-18A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-18B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-18X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-18X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-19A	Metals Only-Glass 60mL/2oz unpreserved	В	NA		3.8	Υ	Absent		PB-TI(180)
L2007070-19B	Glass 250ml/8oz unpreserved	В	NA		3.8	Υ	Absent		TS(7)
L2007070-19X	Plastic 120ml HNO3 preserved Extracts	В	NA		3.8	Υ	Absent		PB-CI(180)
L2007070-19X9	Tumble Vessel	В	NA		3.8	Υ	Absent		-
L2007070-20A	Plastic 250ml HNO3 preserved	В	<2	<2	3.8	Υ	Absent		PB-TI(180)
L2007070-21A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		3.4	Υ	Absent		PB-TI(180)



Lab Number: L2007070

Report Date: 02/20/20

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Container Information			Initial	Final	Temp			Frozen	
Container ID	Container Type	Cooler	pН	рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2007070-21B	Glass 250ml/8oz unpreserved	Α	NA		3.4	Υ	Absent		TS(7)
L2007070-21X	Plastic 120ml HNO3 preserved Extracts	Α	NA		3.4	Υ	Absent		PB-CI(180)
L2007070-21X9	Tumble Vessel	Α	NA		3.4	Υ	Absent		-



Project Name:805-825 ATLANTIC AVENUELab Number:L2007070Project Number:170384501Report Date:02/20/20

GLOSSARY

Acronyms

EDL

LOQ

MS

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.)

 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.)

 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.

 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.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

SRM

Report Format: DU Report with 'J' Qualifiers



Project Name:805-825 ATLANTIC AVENUELab Number:L2007070Project Number:170384501Report Date:02/20/20

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

Terms

1

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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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

Report Format: DU Report with 'J' Qualifiers



Project Name:805-825 ATLANTIC AVENUELab Number:L2007070Project Number:170384501Report Date:02/20/20

Data Qualifiers

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:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2007070

 Project Number:
 170384501
 Report Date:
 02/20/20

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 16

Published Date: 2/17/2020 10:46:05 AM

Page 1 of 1

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, 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 II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

Client Information	Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02948 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Name: 805-825 ATLANTIC AVENUE					Deliv	erables ASP-A		/17/ VASP	ALPHA Job # L200 7-070 Billing Information Same as Client Info		
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Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH Please print clearly Westboro: Certification No: MA935 Container Type Container Type Mansfield: Certification No: MA935 Container Type Mansfield: Certification No: MA935 Container Type Please print clearly and completely. Sa not be logged in an turnaround time clo start until any ambigues to turnaround time clo start until any	-09	SB-107-ER	3-1-2					Ш						
Preservative Code: A = None	-10	15B-107-EE	3-2-H	V		V	V	V	1					
F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH C = Cube Relinquished By: Date/Time Received By: Date/Time Received By: Date/Time Received By: Date/Time Received By: Date/Time THIS COC, THE C HAS READ AND HAS READ AND HAS READ AND TO BE BOUND BY TO BE BOUND BY TO BE BOUND BY TO BE BOUND BY	A = None B = HCI C = HNO ₃ D = H ₂ SO ₄	Container Code P = Plastic A = Amber Glass V = Vial G = Glass	Westboro: Certification No: MA935									Please print clearly, legi and completely. Sample not be logged in and turnaround time clock w	es can vill not	
G = NaHSO ₄ H = Na ₂ S ₂ O ₃ E = Encore D = BOD Bottle THIS COC, THE C HAS READ AND A HAS READ AND A HAS READ AND A HAS READ AND A TO BE BOUND BY	F = MeOH		Relinguishe	ed By:	Date/	Time		Receiv	red Byr		, Dat	e/Time	resolved. BY EXECUTII	
	H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	E = Encore D = BOD Bottle	WHO WE	1000 Hours 2/ 2/20 15:15 MA WATTOIRS (ASK) 2/17/2020 17:45 82h						(P)(4)	2/17/2	00 15:15 0 19:30	THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker V Tonawanda, NY 14150: 275 Co Project Information Project Name:		Page of	3	Delive	in Lab	d d	VASP	1/20	ALPHA Job # L2 00 70 70 Billing Information Same as Client Info	
FAX: 508-898-9193	FAX: 508-822-3288		oject Name: 805-825 ATIANTE AVENUE oject Location: BROCKLIAN, NY					EQuIS (1 I	File)		IS (4 File)	PO#
Client Information	W. C. S. L. T. S.									8==8		
Client: (ANSAN)		1 Delivery 128 128 AV AV 522							uiremen	it	Disposal Site Information	
Address: 360 V	1315		Project Manager: Kim Senan / Colin Antonon							The same of the same	art 375	Please identify below location of
84 FLODE		ALPHAQuote #:		1 00			1 🗇	AWQ Stand	ards	☐ NY C	P-51	applicable disposal facilities,
Phone: ZNZ 4		Turn-Around Time		IN EN				NY Restricte	ed Use	Other	R	Disposal Facility:
Fax: 717-44	-	Standar	d 🗌	Due Date:	4SF	8		NY Unrestri	cted Use	,		□ NJ □ NY
Email: Vsevana		Rush (only if pre approved	d) 🔲	# of Days:				NYC Sewer	Dischar	ge		Other:
These samples have b	een previously analyz	ed by Alpha					ANAL	YSIS				Sample Filtration T
Other project specific		ents:					ft Pb	90 0				Done Lab to do Preservation Lab to do (Please Specify below)
ALPHA Lab ID	6	ID			Sample	mple Sampler's		3			1 1	t see
(Lab Use Only)	58	imple ID			Matrix Initial		P	H				Sample Specific Comments
7070-11	38-107-F	L002-12	2/17/20	7:10	5	TIM		T				
-12	WP-58-01	- 12-10		7:11			П					
-13	WP-58-01			7:12								
-14	WP-5B-01.	\$100 Sec. 10 S		7:13	1 1		Ш					
-15	WP-58-01-	F1-1-2		7:12			П					
-16	WP-58-01-			7:15			П					
-17	MP-5B-01.	-SWN-10		7:16								
-18	MP-58-01.	-FLOUZ-10		チウ								
19	WP-5B-01	-C2-10		7:18	V	L		V				
-20	MBWW FBOI	-021720	7	15:00	AQ	V	V					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification No: MA935 Mansfield: Certification No: MA015				reservative						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are
F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	OH C = Cube ASO ₄ O = Other S ₂ O ₃ E = Encore Ac/NaOH D = BOD Bottle Relinquished By: Date/Time Relinquished By: Date/Time Relinquished By: Date/Time					Received By: Pate/Time ACMPN (DA) 2172020 (S) AAC 21720 19:3				19:30	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES	
Form No: 01-25 HC (rev. 3	0-Sept-2013)	,				/		C)		.02	(Odd levelad slub.)

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Co Project Information Project Name: % 5 5	Vay oper Ave, Suite 10	auric :	Page of	3	Deliv	erables ASP-A	ab _	Q.	ASP-	2/20 3 5 (4 File)	ALPHA Job # L 200 70 7 Billing Information Same as Client Info	30
Client Information	NO NEW YORK	Project # 130 3	Project Location: BLOOKLYN, ANY Project # 170 384 501						(Trile)		EQUIC	(4 File)	PO#	
Client: UANGAN		TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER							Penuirem	ent	Disposal Site Information			
	Froject Manager: KIM SCHON / CO KIN AND CONON						Regulatory Requirement NY TOGS NY Part 375						The comment of the comment	
8m Frozz	NO	ALPHAQuote #:	1 0000	1 60 4	c recec	75100			tandards		NY CP		Please identify below location of applicable disposal facilities.	
Phone: 21Z 43		Turn-Around Time	STILL STATE		THE REAL PROPERTY.	75 8 8 8	_		stricted Use	Terrorit.	Other	350	Disposal Facility:	
Fax: 212 47		Standard		Due Date:	721	0	_		estricted U	-			□ ил □ ил	
	a word an		23.747		TAT				ewer Disch				Other:	
	been previously analyz				1711	100		LYSIS		- 9-			Sample Filtration	T
Other project specific requirements/comments: Please specify Metals or TAL.						ر ج	Ph Ph					Done Lab to do Preservation Lab to do (Please Specify below)	o t a l B o t	
ALPHA Lab ID	Q.	ample ID	Colle	Collection Sample Sampler's			100	3					D-1200 1400 - 711100 1500 1110 1500	t
(Lab Use Only)	0.	ample ID	Date	Time	Matrix	Initials	14	F					Sample Specific Comments	е
7070-21	Di601-0	21720	2/14/20	-	S	TIM	X	X						
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Preservative Code:	Container Code	- North Halle, and the Holle State Charles	, , , , , , , , , , , , , , , , , , ,											- 1/2 3
A = None B = HCI C = HNO ₃ D = H ₂ SO ₄ E = NaOH	P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup	Westboro: Certification No: MA935 Mansfield: Certification No: MA015			Container Type Preservative				+				Please print clearly, leg and completely. Sample not be logged in and turnaround time clock w	es can vill not
E = NaOH B = Bacteria Cup. F = MeOH C = Cube G = NaHSO ₄ O = Other H = Na ₂ S ₂ O ₃ E = Encore K/E = Zn Ac/NaOH D = BOD Bottle O = Other Form No: 01-25 HC (rev. 30-Sept-2013)		ACGOURS (BAC 7/17/10)			5:15	Receive	Ped By	SA	2/2	12 po	Time 20 15:11 20 19:3 20 23:	TO BE BOUND BY ALPHA'S		



ANALYTICAL REPORT

Lab Number: L2008284

Client: Langan Engineering & Environmental

21 Penn Plaza

360 W. 31st Street, 8th Floor New York, NY 10001-2727

ATTN: Kimberly Semon Phone: (212) 479-5486

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Report Date: 02/28/20

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



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

 Lab Number:
 L2008284

 Report Date:
 02/28/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2008284-01	WP-SB-01_A1_10	SOIL	BROOKLYN, NY	02/25/20 11:04	02/25/20
L2008284-02	WP-SB-01_C1_10	SOIL	BROOKLYN, NY	02/25/20 11:03	02/25/20
L2008284-03	WP-SB-01_C3_10	SOIL	BROOKLYN, NY	02/25/20 11:00	02/25/20
L2008284-04	WP-SB-01_D1_10	SOIL	BROOKLYN, NY	02/25/20 11:02	02/25/20
L2008284-05	WP-SB-01_SWW_10	SOIL	BROOKLYN, NY	02/25/20 11:01	02/25/20
L2008284-06	WP-SB-01_SWN_E_12	SOIL	BROOKLYN, NY	02/25/20 11:05	02/25/20
L2008284-07	FB01_022520	WATER	BROOKLYN, NY	02/25/20 14:00	02/25/20



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284
Project Number: 170384501 Report Date: 02/28/20

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: 805-825 ATLANTIC AVENUE Lab Number: L2008284
Project Number: 170384501 Report Date: 02/28/20

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.

Sample Receipt

L2008284-01 and -04: The analysis was cancelled, at the client's request.

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:

Title: Technical Director/Representative Date: 02/28/20

600, Shawow Kelly Stenstrom

METALS



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: Date Collected: L2008284-02 02/25/20 11:03 Client ID: WP-SB-01_C1_10 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil 88% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab J Lead, TCLP 0.033 mg/l 0.500 0.027 1 02/27/20 19:01 02/27/20 21:58 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284 **Project Number:** 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: Date Collected: L2008284-02 02/25/20 11:03 Client ID: WP-SB-01_C1_10 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil 88% Percent Solids:

Prep **Analytical** Dilution Date Date Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

Total Metals - Mansfield Lab 29.1 Lead, Total mg/kg 2.20 0.118 1 02/27/20 17:02 02/28/20 10:31 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: Date Collected: L2008284-03 02/25/20 11:00 Client ID: WP-SB-01_C3_10 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil 90% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab Lead, TCLP ND mg/l 0.500 0.027 1 02/27/20 19:01 02/27/20 22:02 EPA 3015 1,6010D BV



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284 **Project Number:** 02/28/20

170384501

Report Date:

SAMPLE RESULTS

L2008284-03

Date Collected:

02/25/20 11:00

Client ID: WP-SB-01_C3_10 Sample Location: BROOKLYN, NY

Date Received: 02/25/20 Field Prep: Not Specified

Sample Depth:

Matrix:

Lab ID:

Soil

90% Percent Solids:

r ercent donas.	0070					Dilution	Date	Date	Prep	Analytical	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - Mans	sfield Lab										
Lead, Total	4.72		mg/kg	2.19	0.117	1	02/27/20 17:02	2 02/28/20 10:48	EPA 3050B	1,6010D	LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284

Project Number: 170384501 **Report Date:**

SAMPLE RESULTS

02/28/20

Lab ID: L2008284-05

Client ID: WP-SB-01_SWW_10 Sample Location:

Date Collected: Date Received: 02/25/20 11:01

BROOKLYN, NY

Field Prep:

02/25/20 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix:

Soil

Percent Solids:	83%					Dilution	Date	
Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	

Prep Date **Analytical** Method Prepared Analyzed Method **Analyst**

TCLP Metals by EPA	1311 - Mansfield Lab

02/27/20 19:01 02/27/20 22:11 EPA 3015 Lead, TCLP 0.042 J mg/l 0.500 0.027 1 1,6010D BV



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2008284

 Project Number:
 170384501
 Report Date:
 02/28/20

SAMPLE RESULTS

 Lab ID:
 L2008284-05
 Date Collected:
 02/25/20 11:01

 Client ID:
 WP-SB-01_SWW_10
 Date Received:
 02/25/20

Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 83%

Dilution Date Date Prep Analytical

Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηριγεί

Factor Parameter Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst** Total Metals - Mansfield Lab Lead, Total 41.2 mg/kg 2.31 0.124 1 02/27/20 17:02 02/28/20 10:57 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284 02/28/20

170384501

Report Date:

Project Number:

SAMPLE RESULTS

Lab ID: L2008284-06 Client ID:

WP-SB-01_SWN_E_12

Date Collected: Date Received: 02/25/20 11:05

 BV

Sample Location:

BROOKLYN, NY

Field Prep:

02/25/20 Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix:

Soil

90% Percent Solids:

Prep Dilution Date Date **Analytical** Method **Factor Parameter** Result Qualifier Units RL MDL Prepared Analyzed Method **Analyst**

TCLP Metals by EPA 1311 - Mansfield Lab

J Lead, TCLP 0.054 mg/l 0.500 0.027 1 02/27/20 19:01 02/27/20 22:16 EPA 3015 1,6010D



 Project Name:
 805-825 ATLANTIC AVENUE
 Lab Number:
 L2008284

 Project Number:
 170384501
 Report Date:
 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-06 Date Collected: 02/25/20 11:05

Client ID: WP-SB-01_SWN_E_12 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil Percent Solids: 90%

Dilution Date Date Prep Analytical
Parameter Result Qualifier Units RI MDI Factor Prepared Analyzed Method Method Δηραίνει

Parameter Result Qualifier Units RL MDL **Analyst** Total Metals - Mansfield Lab 35.3 Lead, Total mg/kg 2.18 0.117 1 02/27/20 17:02 02/28/20 11:01 EPA 3050B 1,6010D LC



Project Name: Lab Number: 805-825 ATLANTIC AVENUE L2008284 **Report Date:** 02/28/20

Project Number: 170384501

SAMPLE RESULTS

Lab ID: L2008284-07 Date Collected: 02/25/20 14:00 02/25/20 Client ID: FB01_022520 Date Received: Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Man	sfield Lab										
Lead, Total	ND		mg/l	0.010	0.003	1	02/27/20 15:0	7 02/28/20 15:28	EPA 3005A	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2008284

Report Date:

02/28/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared		Analytical Method	
Total Metals - Mansfield	Lab for sample(s):	02-03,05-	06 Bat	ch: WG	1344965-1				
Lead, Total	ND	mg/kg	8.33	0.447	1	02/27/20 17:02	02/28/20 09:56	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 L	_ab for sample(s):	07 Batch:	: WG13	344976-	1				
Lead, Total	ND	mg/l	0.010	0.003	1	02/27/20 15:07	02/28/20 15:19	1,6010D	LC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA	A 1311 - Mansfield Lab	for sample	e(s): 02-	03,05-06	Batch:	WG1345038-1			
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/27/20 19:01	02/27/20 20:44	1,6010D	BV

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/26/20 06:38



Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2008284

Report Date:

02/28/20

Parameter	LCS %Recovery	LCSD Qual %Recover	y Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab /	Associated sample(s): 02-03,05-06	Batch: WG1344965-2	SRM Lot Nu	ımber: D105-540			
Lead, Total	89	-		71-128	-		
Total Metals - Mansfield Lab	Associated sample(s): 07 Batch:	WG1344976-2					
Lead, Total	102	-		80-120	-		
TCLP Metals by EPA 1311 - M	Mansfield Lab Associated sample(s	s): 02-03,05-06 Batch:	WG1345038-2				
Lead, TCLP	106	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number:

L2008284

Report Date:

02/28/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lal Sample	b Associated sam	ple(s): 02-0	03,05-06	QC Batch ID: W	/G13449	965-3 WG1	344965-4 Q	C Samı	ole: L200803	32-01	Client	ID: MS
Lead, Total	110	56.5	142	57	Q	140	52	Q	75-125	1		20
Total Metals - Mansfield Lal	b Associated sam	ple(s): 07	QC Batch	ID: WG134497	'6-3 C	C Sample:	L2008284-07	Clier	t ID: FB01_	_022520	0	
Lead, Total	ND	0.51	0.513	100		-	-		75-125	-		20
TCLP Metals by EPA 1311	- Mansfield Lab A	ssociated s	sample(s): 0)2-03,05-06 C	QC Batc	h ID: WG13	345038-3 Q	C Samp	ole: - Clien	t ID: -		
Lead, TCLP	ND	5.1	5.22	102		-	-		75-125	-		20



Lab Number:

Lab Duplicate Analysis

Batch Quality Control

805-825 ATLANTIC AVENUE

L2008284

Project Number: 170384501 Report Date: 02/28/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07	QC Batch ID: WG13449	976-4 QC Sample: L	2008284-07	Client ID: FB	01_02252	0
Lead, Total	ND	ND	mg/l	NC		20



Project Name:

INORGANICS & MISCELLANEOUS



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-02 Date Collected: 02/25/20 11:03

Client ID: WP-SB-01_C1_10 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab)								
Solids, Total	87.6		%	0.100	NA	1	-	02/26/20 08:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

 Lab ID:
 L2008284-03
 Date Collected:
 02/25/20 11:00

 Client ID:
 WP-SB-01_C3_10
 Date Received:
 02/25/20

 Sample Location:
 BROOKLYN, NY
 Field Prep:
 Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	90.3		%	0.100	NA	1	-	02/26/20 08:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-05 Date Collected: 02/25/20 11:01

Client ID: WP-SB-01_SWW_10 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	02/26/20 08:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284

Project Number: 170384501 **Report Date:** 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-06 Date Collected: 02/25/20 11:05

Client ID: WP-SB-01_SWN_E_12 Date Received: 02/25/20 Sample Location: BROOKLYN, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab									
Solids, Total	90.3		%	0.100	NA	1	-	02/26/20 08:42	121,2540G	RI



Serial_No:02282017:43 *Lab Number:* L2008284

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501 **Report Date:** 02/28/20

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Info		Initial	Final	Temp			Frozen		
Container ID	Container Type	Cooler	рН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2008284-01A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-01B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-01X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-01X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-02A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		PB-TI(180)
L2008284-02B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7)
L2008284-02X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		PB-CI(180)
L2008284-02X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		-
L2008284-03A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		PB-TI(180)
L2008284-03B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7)
L2008284-03X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		PB-CI(180)
L2008284-03X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		-
L2008284-04A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-04B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-04X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-04X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		HOLD-METAL(180)
L2008284-05A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		PB-TI(180)
L2008284-05B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7)
L2008284-05X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		PB-CI(180)
L2008284-05X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		-
L2008284-06A	Metals Only-Glass 60mL/2oz unpreserved	Α	NA		4.9	Υ	Absent		PB-TI(180)
L2008284-06B	Glass 250ml/8oz unpreserved	Α	NA		4.9	Υ	Absent		TS(7)
L2008284-06X	Plastic 120ml HNO3 preserved Extracts	Α	NA		4.9	Υ	Absent		PB-CI(180)



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284

Project Number: 170384501 **Report Date:** 02/28/20

Container Information			Initial	Final	Temp			Frozen			
	Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
	L2008284-06X9	Tumble Vessel	Α	NA		4.9	Υ	Absent		-	
	L2008284-07A	Plastic 250ml HNO3 preserved	Α	<2	<2	4.9	Υ	Absent		PB-TI(180)	



Project Name: 805-825 ATLANTIC AVENUE Lab Number: L2008284 **Report Date: Project Number:** 170384501 02/28/20

GLOSSARY

Acronyms

EDL

LOQ

MS

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.)

- 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.)

- 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

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

MDI - 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.

- 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.

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the RPD 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.

- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEO - 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:805-825 ATLANTIC AVENUELab Number:L2008284Project Number:170384501Report Date:02/28/20

 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, Benza(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.
- 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).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- 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.
- 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).
- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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

Report Format: DU Report with 'J' Qualifiers



Project Name:805-825 ATLANTIC AVENUELab Number:L2008284Project Number:170384501Report Date:02/28/20

Data Qualifiers

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: 805-825 ATLANTIC AVENUE Lab Number: L2008284
Project Number: 170384501 Report Date: 02/28/20

REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc.
Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

_ ID No.:**17873** Revision 16

Published Date: 2/17/2020 10:46:05 AM

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; 4-Ethy

Ethyltoluene

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, 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 II, Endosulfan III, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

Document Type: Form Pre-Qualtrax Document ID: 08-113

Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-698-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Albany, NY 12205: 14 Walker W Tonawanda, NY 14150: 275 Coo Project Information Project Name: 805 Project Location: 820	ay oper Ave, Suite 1 - 825	ATUNT	Page of		Deliv	Date F in L erables ASP-A	ab A		ASP-E		ALPHA Job # L J 008 J 8 Y Billing Information Same as Client Info	
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Client: LANGF	tn)	(Use Project name as Pro					Regulatory Requirement						Disposal Site Information	
Address: 360 M 3 ST Project Manager: W. M. SEMON / Colin ANECTSON OHN FLOOR, NY ALPHAQuote #: Phone: 212 439 5400 Turn-Around Time Fax: 212 439 5409 Standard Due Date: 72 HOUR								NY TOO AWQ S NY Res			NY Par NY CP Other		Please identify below location of applicable disposal facilities. Disposal Facility:	
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These samples have b	een previously analyz	ed by Alpha					ANA	LYSIS					Sample Filtration	
Other project specific requirements/comments:										□ Done t □ Lab to do Preservation □ Lab to do (Please Specify below)				
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B = HCl A = Amber Glass Mansfield: Certification No: MA015 C = HNO ₃ V = Vial						Container Type							Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not	
E = NaOH	B = Bacteria Cup	Color											start until any ambiguities are	
F = NaOH			By: DALL	Date/ 125/20 2/25/2020 2/29/20	14:06 NAT		Received By: WOO! (AM) AAC WWW.			Date/Time 2/2 (1000) 4/2 2/25/20 20:15 WB/90 23:50		2019	resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES	
omino, or-zo no pev. o	0-00pr2010)								Λ_					