

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)								
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. mg/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**

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-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
Inorganics (mg/kg)												
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**

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-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

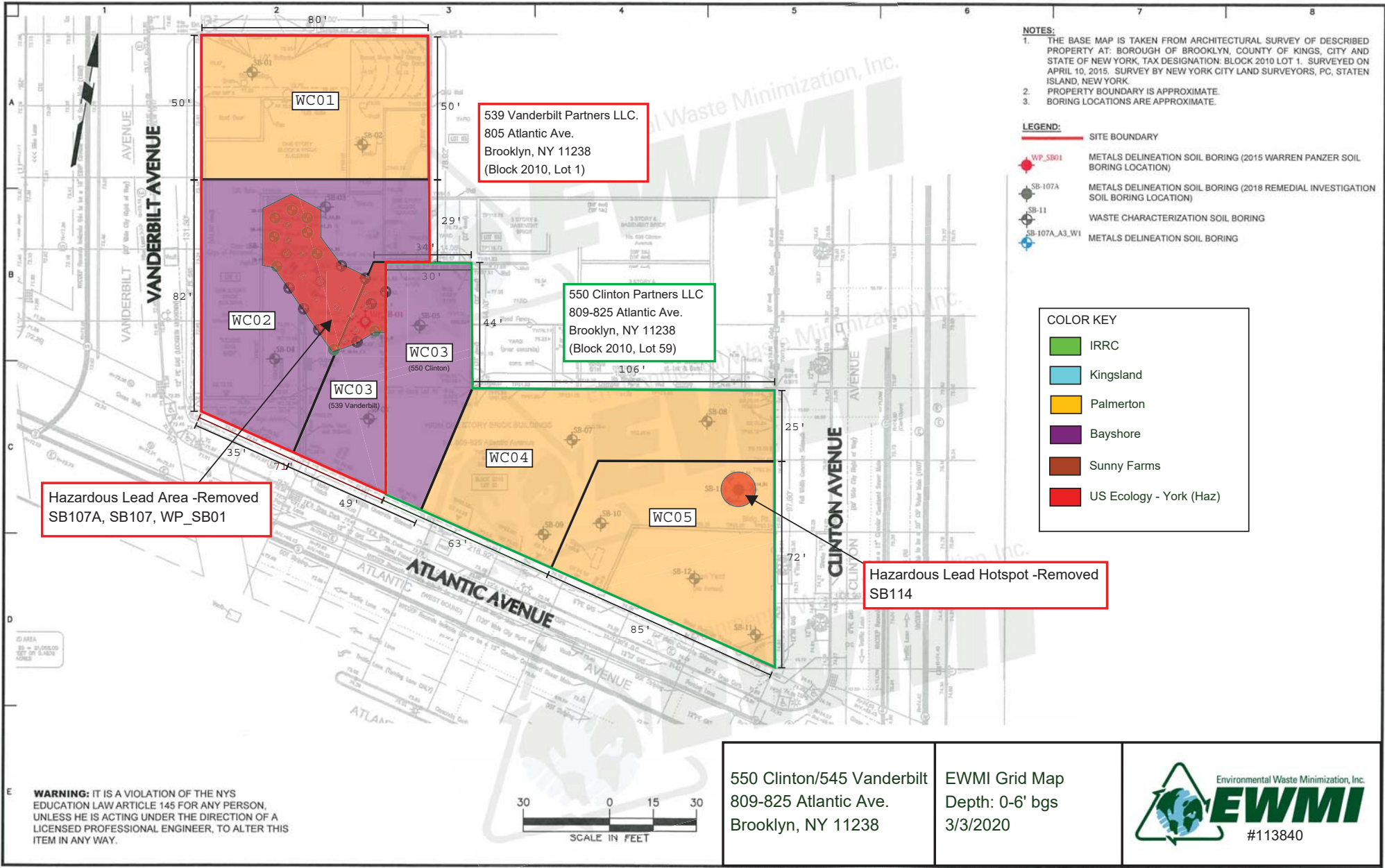
805-825 Atlantic Avenue
Brooklyn New York
Regulatory Site No.: C224228
Langan Project No.: 170384501

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.



NOTES:

1. THE BASE MAP IS TAKEN FROM ARCHITECTURAL SURVEY OF DESCRIBED PROPERTY AT: BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, TAX DESIGNATION: BLOCK 2010 LOT 1. SURVEYED ON APRIL 10, 2015. SURVEY BY NEW YORK CITY LAND SURVEYORS, PC, STATEN ISLAND, NEW YORK.
2. PROPERTY BOUNDARY IS APPROXIMATE.
3. BORING LOCATIONS ARE APPROXIMATE.

LEGEND:

- SITE BOUNDARY
- WP_SB01 METALS DELINEATION SOIL BORING (2015 WARREN PANZER SOIL BORING LOCATION)
- SB-107A METALS DELINEATION SOIL BORING (2018 REMEDIAL INVESTIGATION SOIL BORING LOCATION)
- SB-11 WASTE CHARACTERIZATION SOIL BORING
- SB-107A_A3_W1 METALS DELINEATION SOIL BORING

COLOR KEY

- IRRC
- Kingsland
- Palmerton
- Bayshore
- Sunny Farms
- US Ecology - York (Haz)

Hazardous Lead Area -Removed
SB107A, SB107, WP_SB01

Hazardous Lead Hotspot -Removed
SB114

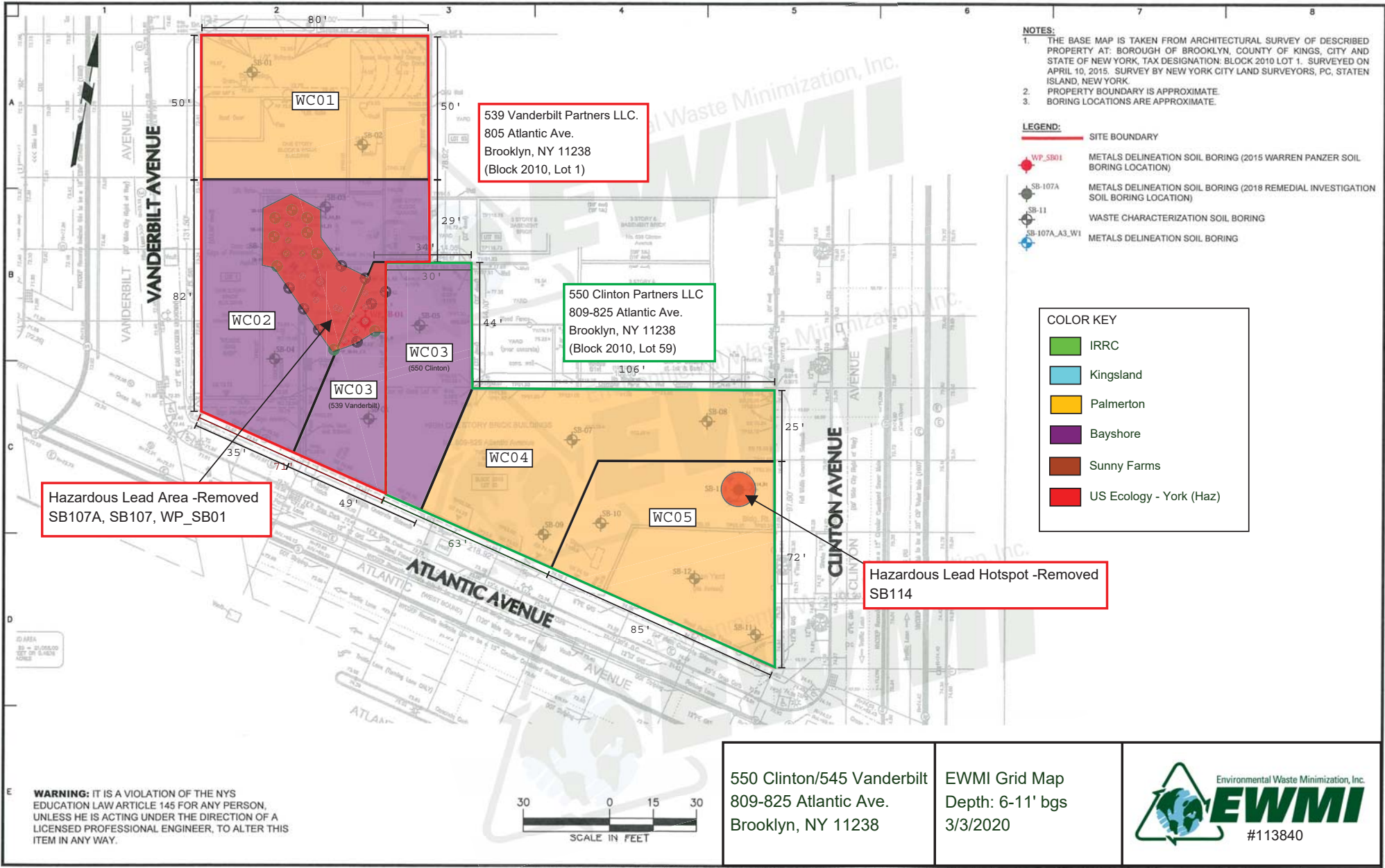
WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.



550 Clinton/545 Vanderbilt
809-825 Atlantic Ave.
Brooklyn, NY 11238

EWMI Grid Map
Depth: 0-6' bgs
3/3/2020





NOTES:
 1. THE BASE MAP IS TAKEN FROM ARCHITECTURAL SURVEY OF DESCRIBED PROPERTY AT: BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, TAX DESIGNATION: BLOCK 2010 LOT 1. SURVEYED ON APRIL 10, 2015. SURVEY BY NEW YORK CITY LAND SURVEYORS, PC, STATEN ISLAND, NEW YORK.
 2. PROPERTY BOUNDARY IS APPROXIMATE.
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LEGEND:

- SITE BOUNDARY
- WP_SB01 METALS DELINEATION SOIL BORING (2015 WARREN PANZER SOIL BORING LOCATION)
- SB-107A METALS DELINEATION SOIL BORING (2018 REMEDIAL INVESTIGATION SOIL BORING LOCATION)
- SB-11 WASTE CHARACTERIZATION SOIL BORING
- SB-107A_A3_W1 METALS DELINEATION SOIL BORING

COLOR KEY

- IRRC
- Kingsland
- Palmerton
- Bayshore
- Sunny Farms
- US Ecology - York (Haz)

Hazardous Lead Area -Removed
 SB107A, SB107, WP_SB01

Hazardous Lead Hotspot -Removed
 SB114



550 Clinton/545 Vanderbilt
 809-825 Atlantic Ave.
 Brooklyn, NY 11238

EWMI Grid Map
 Depth: 6-11' bgs
 3/3/2020



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.



ANALYTICAL REPORT

Lab Number:	L1946730
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 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_A3_-8	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
L1946730-24	SB-114_B1_9	SOIL	BROOKLYN, NY	10/07/19 08:12	10/07/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection 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
L1946730-52	SB-107A_D1_2-7	SOIL	BROOKLYN, NY	10/07/19 12:15	10/07/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection 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

Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1946730
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.

Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1946730
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.

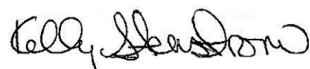
Total Metals

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:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 10/10/19

METALS

Project Name: 805 ATLANTIC AVENUE

Lab Number: L1946730

Project Number: 170384501

Report Date: 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-03

Date Collected: 10/07/19 07:10

Client ID: SB-114_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

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical 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: 805 ATLANTIC AVENUE

Lab Number: L1946730

Project Number: 170384501

Report Date: 10/10/19

SAMPLE RESULTS

Lab ID: L1946730-03

Date Collected: 10/07/19 07:10

Client ID: SB-114_8

Date Received: 10/07/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	5.10		mg/kg	2.30	0.123	1	10/08/19 19:36	10/09/19 14:10	EPA 3050B	1,6010D	LC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-11
 Client ID: SB-114_A1_0-4
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:02
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.115	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 12:31	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	233		mg/kg	2.20	0.118	1	10/08/19 19:36	10/09/19 15:08	EPA 3050B	1,6010D	LC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-12
 Client ID: SB-114_A1_4-8
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:01
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.063	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 12:36	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 86%

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-21
 Client ID: SB-114_B1_0-4
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:08
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.102	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 12:40	EPA 3015	1,6010D	LC
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-21
 Client ID: SB-114_B1_0-4
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:08
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
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: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-22
 Client ID: SB-114_B1_4-8
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 08:10
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:

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

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-22
 Client ID: SB-114_B1_4-8
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 08:10
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 83%

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

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

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.121	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 13:01	EPA 3015	1,6010D	LC
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-31
 Client ID: SB-114_C1_0-4
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 10:11
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 80%

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



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:

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

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.224	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 13:05	EPA 3015	1,6010D	LC
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-32
 Client ID: SB-114_C1_4-8
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 10:13
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 84%

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-46
 Client ID: SB-107A_A1_E1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:51
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.360	J	mg/l	0.500	0.027	1	10/10/19 11:05	10/10/19 13:09	EPA 3015	1,6010D	LC
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-46
 Client ID: SB-107A_A1_E1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:51
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-47
 Client ID: SB-107A_A1_W1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:47
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-47
 Client ID: SB-107A_A1_W1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:47
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	696		mg/kg	2.40	0.129	1	10/08/19 19:36	10/09/19 15:39	EPA 3050B	1,6010D	LC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-48
 Client ID: SB-107A_A3_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:45
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-48
 Client ID: SB-107A_A3_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:45
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

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



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:

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

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-49
 Client ID: SB-107A_A3_E1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:46
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1000		mg/kg	2.41	0.129	1	10/08/19 19:36	10/09/19 15:47	EPA 3050B	1,6010D	LC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-50
 Client ID: SB-107A_A3_W1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:48
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-50
 Client ID: SB-107A_A3_W1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:48
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 73%

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-51
 Client ID: SB-107A_B2_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:49
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-51
 Client ID: SB-107A_B2_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:49
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	148		mg/kg	2.23	0.120	1	10/08/19 19:36	10/09/19 20:16	EPA 3050B	1,6010D	MC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-52
 Client ID: SB-107A_D1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:15
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.488	J	mg/l	0.500	0.027	1	10/10/19 10:31	10/10/19 12:04	EPA 3015	1,6010D	LC
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Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-52
 Client ID: SB-107A_D1_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:15
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	502		mg/kg	2.38	0.128	1	10/08/19 19:36	10/09/19 20:20	EPA 3050B	1,6010D	MC



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-53
 Client ID: SB-107A_D1_7-12
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:16
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 10/09/19 06:34
 Matrix: Soil
 Percent Solids: 81%

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

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	802		mg/kg	2.35	0.126	1	10/08/19 19:36	10/09/19 20:25	EPA 3050B	1,6010D	MC



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:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	251		mg/kg	2.31	0.124	1	10/08/19 19:36	10/09/19 20:30	EPA 3050B	1,6010D	MC



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:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	21.6		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	Analyst
Total Metals - Mansfield Lab for sample(s): 03,11-12,21-22,31-32,46-53,55-56 Batch: WG1293764-1									
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 Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 03,11-12,21-22,31-32,46-49 Batch: WG1294554-1									
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	Date Analyzed	Analytical Method	Analyst
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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,11-12,21-22,31-32,46-53,55-56 Batch: WG1293764-2 SRM Lot Number: D105-540								
Lead, Total	98		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,11-12,21-22,31-32,46-49 Batch: WG1294554-2								
Lead, TCLP	96		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 50-53 Batch: WG1294559-2								
Lead, TCLP	100		-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 805 ATLANTIC AVENUE

Lab Number: L1946730

Project Number: 170384501

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 Associated sample(s): 03,11-12,21-22,31-32,46-53,55-56 QC Batch ID: WG1293764-3 QC Sample: L1946730-03 Client ID: SB-114_8												
Lead, Total	5.10	48.3	37.8	68	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,11-12,21-22,31-32,46-49 QC Batch ID: WG1294554-3 QC Sample: L1946730-03 Client ID: SB-114_8												
Lead, TCLP	ND	5.1	4.92	96		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 50-53 QC Batch ID: WG1294559-3 QC Sample: L1946730-50 Client ID: SB-107A_A3_W1_2-7												
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(s): 03,11-12,21-22,31-32,46-53,55-56 QC Batch ID: WG1293764-4 QC Sample: L1946730-03 Client ID: SB-114_8						
Lead, Total	5.10	7.18	mg/kg	34	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,11-12,21-22,31-32,46-49 QC Batch ID: WG1294554-4 QC Sample: L1946730-03 Client ID: SB-114_8						
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 50-53 QC Batch ID: WG1294559-4 QC Sample: L1946730-50 Client ID: SB-107A_A3_W1_2-7						
Lead, TCLP	1.43	1.39	mg/l	3		20



INORGANICS & MISCELLANEOUS

Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-03
Client ID: SB-114_8
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:10
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-11
Client ID: SB-114_A1_0-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:02
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-12
Client ID: SB-114_A1_4-8
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:01
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-21
Client ID: SB-114_B1_0-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 07:08
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-22
Client ID: SB-114_B1_4-8
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 08:10
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-31
Client ID: SB-114_C1_0-4
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 10:11
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-32
Client ID: SB-114_C1_4-8
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 10:13
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-46
Client ID: SB-107A_A1_E1_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:51
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-47
Client ID: SB-107A_A1_W1_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:47
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-48
Client ID: SB-107A_A3_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:45
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-49
Client ID: SB-107A_A3_E1_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:46
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-50
Client ID: SB-107A_A3_W1_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:48
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-51
 Client ID: SB-107A_B2_2-7
 Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:49
 Date Received: 10/07/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-52
Client ID: SB-107A_D1_2-7
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:15
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-53
Client ID: SB-107A_D1_7-12
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:16
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-55
Client ID: SB-107_6.5
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:01
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



Project Name: 805 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1946730-56
Client ID: SB-107_8
Sample Location: BROOKLYN, NY

Date Collected: 10/07/19 12:02
Date Received: 10/07/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

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



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
General Chemistry - Westborough Lab Associated sample(s): 03,11-12,21-22,31-32,46-53,55-56 QC Batch ID: WG1293430-1 QC Sample: L1946730-03 Client ID: SB-114_8						
Solids, Total	81.9	81.6	%	0		20

Project Name: 805 ATLANTIC AVENUE**Lab Number:** L1946730**Project Number:** 170384501**Report Date:** 10/10/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

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

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

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

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

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

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

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

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

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

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

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

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1.8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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 exceedances 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 AVENUE
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REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1

of 8

Date Rec'd
in Lab

10/08/19

ALPHA Job #

L1946730

Client Information		Project Information		Deliverables		Billing Information	
Client: Langan Engineering		Project Name: 805 Atlantic Avenue		<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B		<input checked="" type="checkbox"/> Same as Client Info	
Address: 360 W 31st Street, 8th Floor		Project Location: Brooklyn, NY		<input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File)		PO #	
New York, NY 10001		Project # 170384501		<input type="checkbox"/> Other			
Phone: 2124795400		(Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement		Disposal Site Information	
Fax: 2124795499		Project Manager: Kim Del Col / Colin Anderson		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375		Please identify below location of applicable disposal facilities.	
Email: kdelcol@langan.com		ALPHAQuote #:		<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51		Disposal Facility:	
		Turn-Around Time		<input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other		<input type="checkbox"/> NJ <input type="checkbox"/> NY	
		Rush (only if pre approved) <input type="checkbox"/>		<input type="checkbox"/> NY Unrestricted Use		<input type="checkbox"/> Other:	
		Due Date: 92 HOUR		<input type="checkbox"/> NYC Sewer Discharge			
		# of Days: TAT 14					

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please CC: datamanagement@langan.com

Please specify Metals or TAL.

Total and TCLP Lead	ANALYSIS										Sample Filtration
											<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
											Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total and TCLP Lead	ANALYSIS										Sample Filtration			
		Date	Time																	
46730-0	SB-114_0-4	10/7/19	7:07	Soil	TM	X														
-02	SB-114_4-8		7:09	Soil	TM	X														Hold All
-03	SB-114_8		7:10	Soil	TM	X														Hold All
-04	SB-114_9		7:05	Soil	TM	X														Hold All
-05	SB-114_10		7:06	Soil	TM	X														Hold All
-06	SB-114-A3-0-4		10:00																	Hold All
-07	SB-114-AB-48		10:10																	Hold All
-08	SB-114-A3-8		10:06																	Hold All
-09	SB-114-A3-9		10:07																	Hold All
-10	SB-114-A3-10		10:08																	Hold All

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 K/E = Zn Ac/NaOH
 O = Other


Container Code
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 D = BOD Bottle


Westboro: Certification No: MA935
 Mansfield: Certification No: MA015


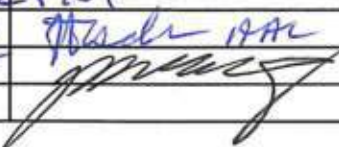
Container Type																				
Preservative																				

Relinquished By:	Date/Time	Received By:	Date/Time
TOMAS MONTI (APL)	10/7/19 3:52 PM	KEVIN O'DONOGHUE (APL)	10/7/19 15:52
MEATLANDER (APL)	10/7/19 18:00	THOMAS MONTI (APL)	10/7/19 2000
STEVE APL	10/15/19 00:15		10/8/19 00:15


Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.


	NEW YORK CHAIN OF CUSTODY	<u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>12</u> of <u>8</u>	Date Rec'd in Lab <u>10/08/19</u>	ALPHA Job # <u>L1946730</u>						
	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									
Client Information		Project Information		Deliverables		Billing Information					
Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com		Project Name: 805 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>		<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #					
		Turn-Around Time		Regulatory Requirement		Disposal Site Information					
		Standard <input checked="" type="checkbox"/> Due Date: <u>72 Hours</u> Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>TAT</u>		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/>				ANALYSIS				Sample Filtration			
Other project specific requirements/comments: Please CC: datamanagement@langan.com				Total and TCLP Lead				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Please specify Metals or TAL.								Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials						
		Date	Time								
<u>46730 -11</u>	<u>SB-114_A1_0-4</u>	<u>10/7/19</u>	<u>7:02</u>	<u>Soil</u>	<u>TM</u>	<u>X</u>					
<u>-12</u>	<u>SB-114_A1_4-8</u>		<u>2:01</u>	<u>Soil</u>	<u>TM</u>	<u>X</u>					
<u>-13</u>	<u>SB-114_A1_8</u>		<u>7:03</u>	<u>Soil</u>	<u>TM</u>	<u>X</u>			<u>Hold All</u>		
<u>-14</u>	<u>SB-114_A1_9</u>		<u>7:04</u>	<u>Soil</u>	<u>TM</u>	<u>X</u>			<u>Hold All</u>		
<u>-15</u>	<u>SB-114_A1_10</u>		<u>7:06</u>	<u>Soil</u>	<u>TM</u>	<u>X</u>			<u>Hold All</u>		
<u>-16</u>	<u>SB-114-A2-0-4</u>		<u>9:00</u>						<u>Hold All</u>		
<u>-17</u>	<u>SB-114-A2-4-8</u>		<u>9:01</u>						<u>Hold All</u>		
<u>-18</u>	<u>SB-114-A2-8</u>		<u>9:02</u>						<u>Hold All</u>		
<u>-19</u>	<u>SB-114-A2-9</u>		<u>9:03</u>						<u>Hold All</u>		
<u>-20</u>	<u>SB-114-A2-10</u>		<u>9:05</u>						<u>Hold All</u>		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative					
				Relinquished By:		Date/Time		Received By:		Date/Time	
				<u>TOMAS MONTI</u>		<u>10/7/19 3:52</u>		<u>DM NEARWOOD</u>		<u>10/7/19 15:52</u>	
				<u>NEARWOOD (AAL)</u>		<u>10/7/19 18:00</u>		<u>NEARWOOD</u>		<u>10/7/19 20:00</u>	
				<u>NEARWOOD</u>		<u>10/8/19 00:15</u>		<u>NEARWOOD</u>		<u>10/8/19 00:15</u>	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS .											
Form No: 01-25 (rev. 30-Sept-2013)											

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>3</u> of <u>8</u>		Date Rec'd in Lab <u>10/08/19</u>		ALPHA Job # <u>L1946730</u>																																																																																																																																																																																																															
		Client Information Client: <u>LANEAN</u> Address: <u>360 W 31 ST</u> <u>8th FLOOR, NY</u> Phone: <u>212 479 5799</u> Fax: <u>212 479 5799</u> Email: <u>KDEL@LANEAN.COM</u>		Project Information Project Name: <u>805 ATLANTIC AVENUE</u> Project Location: <u>BROOKLYN, NY</u> Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																																																																																																																																																															
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Other project specific requirements/comments:		Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>ALPHA Lab ID (Lab Use Only)</th> <th>Sample ID</th> <th>Collection Date</th> <th>Collection Time</th> <th>Sample Matrix</th> <th>Sampler's Initials</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td><u>46730-21</u></td> <td><u>SB-114-B1-0-4</u></td> <td><u>10/7/19</u></td> <td><u>7:08</u></td> <td><u>S</u></td> <td><u>TH</u></td> <td><u>X</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-22</u></td> <td><u>SB-114-B1-4-8</u></td> <td></td> <td><u>8:10</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-23</u></td> <td><u>SB-114-B1-8</u></td> <td></td> <td><u>8:11</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-24</u></td> <td><u>SB-114-B1-9</u></td> <td></td> <td><u>8:12</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-25</u></td> <td><u>SB-114-B1-10</u></td> <td></td> <td><u>8:13</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-26</u></td> <td><u>SB-114-B2-0-4</u></td> <td></td> <td><u>8:00</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-27</u></td> <td><u>SB-114-B2-4-8</u></td> <td></td> <td><u>8:01</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-28</u></td> <td><u>SB-114-B2-8</u></td> <td></td> <td><u>8:02</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-29</u></td> <td><u>SB-114-B2-9</u></td> <td></td> <td><u>8:03</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-30</u></td> <td><u>SB-114-B2-10</u></td> <td></td> <td><u>8:04</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID		Collection Date	Collection Time	Sample Matrix	Sampler's Initials														<u>46730-21</u>	<u>SB-114-B1-0-4</u>	<u>10/7/19</u>	<u>7:08</u>	<u>S</u>	<u>TH</u>	<u>X</u>	<u>X</u>												<u>-22</u>	<u>SB-114-B1-4-8</u>		<u>8:10</u>																<u>-23</u>	<u>SB-114-B1-8</u>		<u>8:11</u>																<u>-24</u>	<u>SB-114-B1-9</u>		<u>8:12</u>																<u>-25</u>	<u>SB-114-B1-10</u>		<u>8:13</u>																<u>-26</u>	<u>SB-114-B2-0-4</u>		<u>8:00</u>																<u>-27</u>	<u>SB-114-B2-4-8</u>		<u>8:01</u>																<u>-28</u>	<u>SB-114-B2-8</u>		<u>8:02</u>																<u>-29</u>	<u>SB-114-B2-9</u>		<u>8:03</u>																<u>-30</u>	<u>SB-114-B2-10</u>		<u>8:04</u>															
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Relinquished By: <u>Tomas Danti</u> Date/Time: <u>10/7/19 3:52 PM</u>		Received By: <u>STUDILL</u> Date/Time: <u>10/8/19 15:52</u>		Relinquished By: <u>STUDILL</u> Date/Time: <u>10/7/19 18:00</u>		Received By: <u>STUDILL</u> Date/Time: <u>10/7/19 20:00</u>		Relinquished By: <u>STUDILL</u> Date/Time: <u>10/8/19 00:15</u>		Received By: <u>STUDILL</u> Date/Time: <u>10/8/19 00:15</u>																																																																																																																																																																																																													

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Client Information Client: <u>LAW FAN</u> Address: <u>360 W 31 ST</u> <u>8th Floor, NY</u> Phone: <u>212 499 5100</u> Fax: <u>212 499 5199</u> Email: <u>vkolcol@lawfan.com</u>		Project Information Project Name: <u>805 ATLANTIC AVENUE</u> Project Location: <u>Brooklyn, NY</u> Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other							
Project Manager: <u>VIM NEL COL / COLIN AMOS</u> ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: <u>72 HOUR</u> Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>TAT 14</u>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Billing Information <input type="checkbox"/> Same as Client Info PO #							
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ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					Sample Specific Comments	
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46780 -21	SB-114-C1-0-4	10/7/19	10:11	S	TM	X	X				
-22	SB-114-C1-4-8		10:13								
-23	SB-114-C1-8		10:16							Hold ALL	
-24	SB-114-C1-9		10:17							Hold ALL	
-25	SB-114-C1-10		10:18							Hold ALL	
-26	SB-114-C2-0-4		11:10							Hold ALL	
-27	SB-114-C2-4-8		11:15							Hold ALL	
-28	SB-114-C2-8		11:14							Hold ALL	
-29	SB-114-C2-9		11:11							Hold ALL	
-40	SB-114-C2-10		11:12							Hold ALL	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Relinquished By: <u>Thomas Moran</u>		Date/Time: <u>10/7/19 3:52 PM</u>		Received By: <u>MATTHEW (AK)</u>		Date/Time: <u>10/7/19 2:00</u>					
<u>Wade AM</u>		<u>10/8/19 00:15</u>				<u>10/8/19 00:15</u>					

NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288 LANGAN		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>5</u> of <u>8</u>		Date Rec'd in Lab <u>10/08/19</u>			ALPHA Job # <u>L1946730</u>																																									
		Project Information Project Name: <u>805 ATLANTIC AVENUE</u> Project Location: <u>BROOKLYN, NY</u> Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/>				Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other			Billing Information <input type="checkbox"/> Same as Client Info PO #																																									
Client Information Client: <u>360 W 31ST ST</u> Address: <u>8th Floor, NY</u> Phone: <u>212 479 5400</u> Fax: <u>212 479 5499</u> Email: <u>kdelcol@wgon.com</u>		Project Manager: <u>Kim Delcol / Colin Anderson</u> ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">46730-41</td> <td style="width:30%;">SB-114-C3-0-4</td> <td style="width:10%;">10/7/19</td> <td style="width:10%;">11:00</td> <td style="width:10%;">S</td> <td style="width:10%;">TM</td> <td style="width:5%;">Y</td> <td style="width:5%;">Y</td> <td style="width:15%;">How All</td> </tr> <tr> <td>-42</td> <td>SB-114-C3-4-8</td> <td></td> <td>11:01</td> <td></td> <td></td> <td></td> <td></td> <td>How All</td> </tr> <tr> <td>-43</td> <td>SB-114-C3-8</td> <td></td> <td>11:02</td> <td></td> <td></td> <td></td> <td></td> <td>How All</td> </tr> <tr> <td>-44</td> <td>SB-114-C3-9</td> <td></td> <td>11:04</td> <td></td> <td></td> <td></td> <td></td> <td>How All</td> </tr> <tr> <td>-45</td> <td>SB-114-C3-10</td> <td></td> <td>11:05</td> <td></td> <td></td> <td></td> <td></td> <td>How All</td> </tr> </table>													46730-41	SB-114-C3-0-4	10/7/19	11:00	S	TM	Y	Y	How All	-42	SB-114-C3-4-8		11:01					How All	-43	SB-114-C3-8		11:02					How All	-44	SB-114-C3-9		11:04					How All	-45	SB-114-C3-10
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<u>ALAN PERAZZOLI (AAL)</u>				<u>10/7/19 18:00</u>		<u>ALAN PERAZZOLI</u>			<u>10/7/19 2000</u>																																									
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Client Information Client: LANTAN Address: 360 W 31 St 8th Floor, NY Phone: 212 449 5400 Fax: 212 449 5100 Email: k.delcol@lantan.com	Project Information Project Name: 805 Atlantic Avenue Project Location: BROOKLYN, NY Project # 170384501 (Use Project name as Project #) <input type="checkbox"/> Project Manager: KIM DEL COL ALPHAQuote #:	Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input type="checkbox"/> Same as Client Info PO #	Total Boottle																																																																																																																										
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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
Project Number: 170384501

Lab Number: L1925653
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
Project Number: 170384501

Lab Number: L1925653
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:

 Cristin Walker

Title: Technical Director/Representative

Date: 06/20/19

METALS

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

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	17.0		mg/kg	2.34	0.125	1	06/20/19 00:22	06/20/19 09:51	EPA 3050B	1,6010D	LC



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

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.37		mg/kg	2.08	0.112	1	06/20/19 00:22	06/20/19 10:08	EPA 3050B	1,6010D	LC



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

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	369		mg/kg	2.20	0.118	1	06/20/19 00:22	06/20/19 10:12	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925653

Project Number: 170384501

Report Date: 06/20/19

Method Blank Analysis Batch Quality Control

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

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1250604-2 SRM Lot 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

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1250604-3 QC Sample: L1925653-01 Client ID: SB-107_A_7-8												
Lead, Total	17.0	47.4	51.4	72	Q	-	-		75-125	-		20

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 Sample	Duplicate Sample	Units	RPD	Qual	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
 Client ID: SB-107_A_7-8
 Sample Location: BROOKLYN

Date Collected: 06/13/19 12:35
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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
 Client ID: SB-107_B_7-8
 Sample Location: BROOKLYN

Date Collected: 06/13/19 13:10
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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
 Client ID: SB-107_C_7-8
 Sample Location: BROOKLYN

Date Collected: 06/13/19 12:55
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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 Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1248878-1 QC Sample: L1924404-02 Client ID: DUP Sample						
Solids, Total	92.6	93.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1248911-1 QC Sample: L1925654-01 Client ID: DUP 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?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. 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 AVENUE
Project Number: 170384501

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

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #																																																																																																					
		1 of 1	6/14/19	L1925653																																																																																																					
Westborough, MA 01561 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information																																																																																																				
Project Name: <u>805-825 Atlantic Avenue</u> Project Location: <u>Brooklyn</u> Project # <u>170384501</u>		<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input type="checkbox"/> Same as Client Info PO #																																																																																																					
Client Information		Regulatory Requirement		Disposal Site Information																																																																																																					
Client: <u>Langan</u> Address: <u>360 W. 31st St 8th Fl</u> <u>Manhattan, 10001</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5444</u> Email: <u>condertor@langan.com</u>		(Use Project name as Project #) <input type="checkbox"/> Project Manager: <u>Coln Anderson</u> ALPHAQuote #:		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																					
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																																																																																																							
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration																																																																																																					
Other project specific requirements/comments:		Total/Lead	<table border="1" style="width:100%; height: 100px;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																																																																						<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
Please specify Metals or TAL.				Sample Specific Comments																																																																																																					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																																																																																																				
		Date	Time																																																																																																						
<u>25653-01</u>	<u>SB-107-A-7-8</u>	<u>6/13/19</u>	<u>1235</u>	<u>S</u>	<u>SA</u>	<u>X</u>																																																																																																			
<u>-02</u>	<u>SB-107-B-7-8</u>	<u>↓</u>	<u>1310</u>	<u>↓</u>	<u>↓</u>	<u>X</u>																																																																																																			
<u>-03</u>	<u>SB-107-C-7-8</u>	<u>↓</u>	<u>1255</u>	<u>↓</u>	<u>↓</u>	<u>X</u>																																																																																																			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <u>202</u> Preservative						Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																																																													
		Relinquished By:	Date/Time	Received By:	Date/Time																																																																																																				
		<u>[Signature]</u>	<u>6/13/19 14:30</u>	<u>DS-AAL</u>	<u>6/13/19 14:36</u>																																																																																																				
		<u>[Signature]</u>	<u>6/13/19 18:20</u>	<u>[Signature]</u>	<u>6/13/20:02</u>																																																																																																				
		<u>[Signature]</u>	<u>6/14 00:05</u>	<u>[Signature]</u>	<u>6/19/19 00:05</u>																																																																																																				



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
Project Number: 170384501

Lab Number: L1925654
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 AVENUE
Project Number: 170384501

Lab Number: L1925654
Report 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.

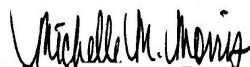
June 28, 2019: This preliminary report includes the results of the TCLP Lead analysis performed on L1925654-04 and -08.

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.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 07/16/19

METALS

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925654

Project Number: 170384501

Report Date: 07/16/19

SAMPLE RESULTS

Lab ID: L1925654-01
 Client ID: SB-107A_A1_2-7
 Sample Location: BROOKLYN

Date Collected: 06/13/19 08:34
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 06/15/19 19:11
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

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

Sample Location: BROOKLYN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	739		mg/kg	2.19	0.118	1	06/20/19 00:22	06/20/19 10:17	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-02
 Client ID: SB-107A_A1_7-12
 Sample Location: BROOKLYN

Date Collected: 06/13/19 08:35
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

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

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

Matrix: Soil

Percent Solids: 88%

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



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

Lab ID: L1925654-04

Date Collected: 06/13/19 09:15

Client ID: SB-107A_A2_7-12

Date Received: 06/13/19

Sample Location: 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 1311 - Mansfield Lab											
Lead, TCLP	11.5		mg/l	0.500	0.027	1	06/28/19 10:46	06/28/19 13:59	EPA 3015	1,6010D	LC



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:

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

Matrix: Soil

Percent Solids: 87%

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

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
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: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-06
 Client ID: SB-107A_B1_7-12
 Sample Location: BROOKLYN

Date Collected: 06/13/19 10:53
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 69%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-06
 Client ID: SB-107A_B1_7-12
 Sample Location: BROOKLYN

Date Collected: 06/13/19 10:53
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	734		mg/kg	2.85	0.153	1	06/20/19 00:22	06/20/19 10:42	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925654
Report Date: 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: TCLP/SPLP Ext. Date: 06/25/19 05:32
 Matrix: Soil
 Percent Solids: 85%

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

Matrix: Soil

Percent Solids: 85%

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



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-09
 Client ID: SB-107A_C1_2-7
 Sample Location: BROOKLYN

Date Collected: 06/13/19 10:00
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:

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

Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

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

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	196		mg/kg	2.13	0.114	1	06/20/19 00:22	06/20/19 10:47	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-10
 Client ID: SB-107A_C1_7-12
 Sample Location: BROOKLYN

Date Collected: 06/13/19 10:12
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 86%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

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

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	134		mg/kg	2.21	0.118	1	06/20/19 00:22	06/20/19 10:51	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-13
 Client ID: SB-107A_12
 Sample Location: BROOKLYN

Date Collected: 06/13/19 09:32
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.035	J	mg/l	0.500	0.027	1	06/20/19 13:00	06/20/19 18:20	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 94%

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

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

Matrix: Soil

Percent Solids: 81%

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

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	73.2		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

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

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02,05-06,09-10,13-14 Batch: WG1250604-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	06/20/19 00:22	06/20/19 09:43	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 1311 - Mansfield Lab for sample(s): 01-02,05,09-10,13-14 Batch: WG1250987-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/20/19 13:00	06/20/19 15:25	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 1311 - Mansfield Lab for sample(s): 06 Batch: WG1251005-1									
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 1311 - Mansfield Lab for sample(s): 04,08 Batch: WG1254345-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	06/28/19 10:46	06/28/19 13:11	1,6010D	LC

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925654

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: WG1257698-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	07/09/19 19:15	07/10/19 20:36	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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,09-10,13-14 Batch: WG1250604-2 SRM Lot Number: D105-540								
Lead, Total	88		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02,05,09-10,13-14 Batch: WG1250987-2								
Lead, TCLP	100		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 Batch: WG1251005-2								
Lead, TCLP	102		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04,08 Batch: WG1254345-2								
Lead, TCLP	105		-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 08 Batch: WG1257698-2 SRM Lot Number: D105-540								
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	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,09-10,13-14 QC Batch ID: WG1250604-3 QC Sample: L1925653-01 Client ID: MS Sample												
Lead, Total	17.0	47.4	51.4	72	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02,05,09-10,13-14 QC Batch ID: WG1250987-3 QC Sample: L1925654-01 Client ID: SB-107A_A1_2-7												
Lead, TCLP	0.418J	5.1	5.50	108		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1251005-3 QC Sample: L1925654-06 Client ID: SB-107A_B1_7-12												
Lead, TCLP	28.9	5.1	34.3	106		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04,08 QC Batch ID: WG1254345-3 QC Sample: L1925270-01 Client ID: MS Sample												
Lead, TCLP	0.234J	5.1	5.52	108		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 08 QC Batch ID: WG1257698-3 QC Sample: L1929103-06 Client ID: MS Sample												
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	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02,05-06,09-10,13-14 QC Batch ID: WG1250604-4 QC Sample: L1925653-01 Client ID: DUP Sample						
Lead, Total	17.0	11.6	mg/kg	38	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02,05,09-10,13-14 QC Batch ID: WG1250987-4 QC Sample: L1925654-01 Client ID: SB-107A_A1_2-7						
Lead, TCLP	0.418J	0.400J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1251005-4 QC Sample: L1925654-06 Client ID: SB-107A_B1_7-12						
Lead, TCLP	28.9	28.8	mg/l	0		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04,08 QC Batch ID: WG1254345-4 QC Sample: L1925270-01 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: WG1257698-4 QC Sample: L1929103-06 Client ID: DUP 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

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	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:

Matrix: Soil

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:

Matrix: Soil

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:

Matrix: Soil

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:

Matrix: Soil

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



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-09
 Client ID: SB-107A_C1_2-7
 Sample Location: BROOKLYN

Date Collected: 06/13/19 10:00
 Date Received: 06/13/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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:

Matrix: Soil

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:

Matrix: Soil

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



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

SAMPLE RESULTS

Lab ID: L1925654-14
Client ID: SB-107A_13
Sample Location: BROOKLYN

Date Collected: 06/13/19 09:30
Date Received: 06/13/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,05-06,09-10,13-14 QC Batch ID: WG1248911-1 QC Sample: L1925654-01 Client ID: SB-107A_A1_2-7						
Solids, Total	91.0	91.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 08 QC Batch ID: WG1256914-1 QC Sample: L1929366-02 Client ID: DUP Sample						
Solids, Total	81.5	83.1	%	2		20

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1925654**Project Number:** 170384501**Report Date:** 07/16/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

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

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

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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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


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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	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 Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 2	Date Rec'd in Lab 6/14/19	ALPHA Job # L1925654		
		Project Information Project Name: <u>805-82S Atlantic Avenue</u> Project Location: <u>Brooklyn</u> Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> Other <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (4 File)		Billing Information <input type="checkbox"/> Same as Client Info PO #	
Client Information Client: <u>Langan</u> Address: <u>360 W. 31st St 8th Fl</u> <u>Manhattan, 10001</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5444</u> Email: <u>canderson@langan.com</u>		Project Manager: <u>Colin Anderson</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge <input type="checkbox"/> NY Part 375 <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> Other		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Other project specific requirements/comments: Please specify Metals or TAL.		Total lead TCLP lead		T o t a l B o t t l e			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler's Initials
		Date	Time				
<u>25654</u>	SA-SB-107A-12	<u>6/13/19</u>	<u>0932</u>			<u>S</u>	<u>SA</u>
	6-13-19 SB-107A-13		<u>0930</u>			<u>S</u>	<u>SA</u>
<u>-01</u>	<u>SB-107A_A1-2-7</u>	<u>6/13/19</u>	<u>0834</u>			<u>S</u>	<u>SA</u>
<u>-02</u>	<u>SB-107A_A1-7-12</u>		<u>0835</u>				
<u>-03</u>	<u>SB-107A_A2-2-7</u>		<u>0912</u>				
<u>-04</u>	<u>SB-107A_A2-7-12</u>		<u>0915</u>				
<u>-05</u>	<u>SB-107A_B1-2-7</u>		<u>1051</u>				
<u>-06</u>	<u>SB-107A_B1-7-12</u>		<u>1053</u>				
<u>-07</u>	<u>SB-107A_B2-2-7</u>		<u>1110</u>				
<u>-08</u>	<u>SB-107A_B2-7-12</u>		<u>1115</u>				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015			
Container Type <u>2oz</u> <u>5oz</u>		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Relinquished By: <u>[Signature]</u>		Date/Time: <u>6/13/19 - 1430</u>		Received By: <u>DS. AAC</u>			
Date/Time: <u>6/13/19 18:20</u>		Date/Time: <u>6/13/19 20:02</u>		Date/Time: <u>6/13/19 00:05</u>			
Date/Time: <u>6/13/19 00:05</u>		Date/Time: <u>6/13/19 00:05</u>		Date/Time: <u>6/13/19 00:05</u>			

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p>Service Centers</p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>		<p>Page 2 of 2</p>		<p>Date Rec'd in Lab 6/14/19</p>		<p>ALPHA Job # L1925654</p>																																																																																																																																																																																																																														
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<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p>				<p>Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>				<p>Relinquished By: <u>[Signature]</u> Date/Time: <u>6/13/19 14:30</u></p>		<p>Received By: <u>[Signature]</u> Date/Time: <u>6/12/19 14:30</u></p>		<p>Received By: <u>[Signature]</u> Date/Time: <u>6/12/19 00:02</u></p>		<p>Received By: <u>[Signature]</u> Date/Time: <u>6/14/19 00:05</u></p>																																																																																																																																																																																																																							



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
Project Number: 170384501

Lab Number: L1929395
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
Project Number: 170384501

Lab Number: L1929395
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: *Melissa Sturgis* Melissa Sturgis

Title: Technical Director/Representative

Date: 07/12/19

METALS

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

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/11/19 12:01	07/12/19 00:44	EPA 3015	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1929395

Project Number: 170384501

Report Date: 07/12/19

SAMPLE RESULTS

Lab ID: L1929395-02

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:

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 1311 - Mansfield Lab											
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/11/19 12:01	07/12/19 00:49	EPA 3015	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1929395

Project Number: 170384501

Report Date: 07/12/19

SAMPLE RESULTS

Lab ID: L1929395-03

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:

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 1311 - Mansfield Lab											
Lead, TCLP	4.23		mg/l	0.500	0.027	1	07/11/19 12:01	07/12/19 01:26	EPA 3015	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 03 Batch: WG1258644-1									
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	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-02 Batch: WG1258647-1									
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
Project Number: 170384501

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 Batch: 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	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1258644-3 QC Sample: L1929190-01 Client ID: MS Sample												
Lead, TCLP	0.094J	5.1	5.18	102	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1258647-3 QC Sample: L1929381-01 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.22	102	-	-	-	-	75-125	-	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L1929395

Report Date: 07/12/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1258644-4 QC Sample: L1929190-01 Client ID: DUP Sample						
Lead, TCLP	0.094J	0.095J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1258647-4 QC Sample: 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?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

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

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


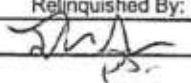
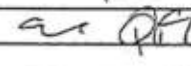



EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	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 Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 6/14/19	ALPHA Job # L1925653																																																																											
		Project Information Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn Project # 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		Billing Information <input type="checkbox"/> Same as Client Info PO #																																																																										
Client Information Client: Langan Address: 360 W. 31st St 9th Fl Manhattan, 10001 Phone: 212-479-5400 Fax: 212-479-5444 Email: canderson@langan.com		Project Manager: Colin Anderson ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																										
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:5%;">Total/Lead</th> <th style="width:10%;">TCLP-Pb</th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> <th style="width:5%;"> </th> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		Total/Lead	TCLP-Pb																	X	X																		X	X																		X	X																		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments	
Total/Lead	TCLP-Pb																																																																															
X	X																																																																															
X	X																																																																															
X	X																																																																															
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <div style="border: 1px solid black; padding: 2px; width: fit-content;">29395</div>		Please specify Metals or TAL.		ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix Sampler's Initials		Total/Lead		Container Type		Preservative		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																												
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ I/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Relinquished By: 		Date/Time 6/13/19 14:30		Received By: DS- AAL		Date/Time 6/13/19 14:36		Relinquished By: 		Date/Time 6/13/19 18:20		Received By: 		Date/Time 6/13/20 '02		Relinquished By: 		Date/Time 6/14 00:05		Received By: 		Date/Time 6/19/19 00:05																																																						



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
L1932112-24	SB-107A_A1_E1_13	SOIL	BROOKLYN, NY	07/19/19 11:39	07/19/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection 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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
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
Project Number: 170384501

Lab Number: L1932112
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.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/08/19

METALS

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:

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

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.580		mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 19:15	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	208		mg/kg	2.30	0.123	1	07/25/19 02:00	07/25/19 19:59	EPA 3050B	1,6010D	AB



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%

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

Matrix: Soil

Percent Solids: 93%

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



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:

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

Matrix: Soil

Percent Solids: 91%

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

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	316		mg/kg	2.14	0.115	1	07/25/19 02:00	07/25/19 21:00	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 88%

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

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3160		mg/kg	2.17	0.116	1	07/30/19 20:15	07/31/19 17:55	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 90%

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

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1460		mg/kg	2.20	0.118	1	07/25/19 02:00	07/25/19 21:05	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
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: 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:

Matrix: Soil

Percent Solids: 86%

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



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:

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

Matrix: Soil

Percent Solids: 95%

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

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	9.54		mg/kg	2.10	0.113	1	07/30/19 20:15	07/31/19 18:00	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.092	J	mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 19:28	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 93%

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



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932112

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-27

Date Collected: 07/19/19 09:28

Client ID: SB-107A_A2_3

Date Received: 07/19/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

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

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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	AB
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Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932112

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-27

Date Collected: 07/19/19 09:28

Client ID: SB-107A_A2_3

Date Received: 07/19/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1100		mg/kg	2.10	0.113	1	07/30/19 20:15	07/31/19 18:04	EPA 3050B	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932112

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-28

Date Collected: 07/19/19 09:29

Client ID: SB-107A_A2_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

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	9.24		mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 19:33	EPA 3015	1,6010D	LC
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Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932112

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-28

Date Collected: 07/19/19 09:29

Client ID: SB-107A_A2_5

Date Received: 07/19/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1990		mg/kg	2.32	0.124	1	07/25/19 02:00	07/25/19 21:25	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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 19:37	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	8.02		mg/kg	1.96	0.105	1	07/25/19 02:00	07/25/19 21:30	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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	LC
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

SAMPLE RESULTS

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

Date Collected: 07/19/19 10:43
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	892		mg/kg	2.18	0.117	1	07/25/19 02:00	07/25/19 21:35	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.029	J	mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 19:42	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	15.7		mg/kg	2.02	0.108	1	07/25/19 02:00	07/25/19 22:38	EPA 3050B	1,6010D	AB



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:

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

Matrix: Soil

Percent Solids: 78%

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

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	152		mg/kg	2.51	0.134	1	07/30/19 20:15	07/31/19 18:09	EPA 3050B	1,6010D	AB



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

Lab ID: L1932112-36

Date Collected: 07/19/19 08:01

Client ID: SB-107A_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

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	11.7		mg/l	0.500	0.027	1	07/25/19 16:27	07/26/19 02:11	EPA 3015	1,6010D	LC
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Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932112

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-36

Date Collected: 07/19/19 08:01

Client ID: SB-107A_5

Date Received: 07/19/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

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

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

Matrix: Soil

Percent Solids: 90%

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

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	250		mg/kg	2.20	0.118	1	07/25/19 02:00	07/25/19 22:48	EPA 3050B	1,6010D	AB



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-39
 Client ID: FB01_20190719
 Sample Location: BROOKLYN, NY

Date Collected: 07/19/19 13:12
 Date Received: 07/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		mg/l	0.010	0.003	1	07/23/19 12:00	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	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 39 Batch: WG1263285-1									
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 - Mansfield Lab for sample(s): 03,08,13,17-18,22,28-29,32-33,36,38 Batch: WG1264087-1									
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(s): 03,08,13,22,28-29,33,38 Batch: WG1264336-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	07/25/19 12:56	07/25/19 18:16	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 1311 - Mansfield Lab for sample(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	1,6010D	LC

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
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	Analyst
Total Metals - Mansfield Lab for sample(s): 16,19,27,35 Batch: WG1266469-1									
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	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 16,35 Batch: WG1267344-1									
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 for sample(s): 19,27 Batch: WG1267405-1									
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

Report Date: 08/08/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
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 Associated sample(s): 03,08,13,22,28-29,33,38 Batch: WG1264336-2								
Lead, TCLP	96		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17-18,32,36 Batch: WG1264363-2								
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 Associated sample(s): 16,35 Batch: WG1267344-2								
Lead, TCLP	98		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 19,27 Batch: WG1267405-2								
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	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 39 QC Batch ID: WG1263285-3 QC Sample: L1931339-09 Client ID: MS Sample												
Lead, Total	ND	0.51	0.549	108		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 03,08,13,17-18,22,28-29,32-33,36,38 QC Batch ID: WG1264087-3 QC Sample: L1932112-03 Client ID: SB-107A_A3_7-12												
Lead, Total	208	47.2	172	0	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,08,13,22,28-29,33,38 QC Batch ID: WG1264336-3 QC Sample: L1932019-02 Client ID: MS Sample												
Lead, TCLP	ND	5.1	5.15	101		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17-18,32,36 QC Batch ID: WG1264363-3 QC Sample: L1932112-17 Client ID: SB-107A_A1_5												
Lead, TCLP	21.9	5.1	27.0	100		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 16,19,27,35 QC Batch ID: WG1266469-3 QC Sample: L1933356-01 Client ID: MS Sample												
Lead, Total	408	48.6	382	0	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 16,35 QC Batch ID: WG1267344-3 QC Sample: L1932112-16 Client ID: SB-107A_A1_3												
Lead, TCLP	70.3	5.1	73.8	69	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 19,27 QC Batch ID: WG1267405-3 QC Sample: L1932112-19 Client ID: SB-107A_A1_13												
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: WG1263285-4 QC Sample: L1931339-09 Client ID: DUP Sample						
Lead, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 03,08,13,17-18,22,28-29,32-33,36,38 QC Batch ID: WG1264087-4 QC Sample: L1932112-03 Client ID: SB-107A_A3_7-12						
Lead, Total	208	126	mg/kg	49	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 03,08,13,22,28-29,33,38 QC Batch ID: WG1264336-4 QC Sample: L1932019-02 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17-18,32,36 QC Batch ID: WG1264363-4 QC Sample: L1932112-17 Client ID: SB-107A_A1_5						
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 Sample: L1933356-01 Client ID: DUP Sample						
Lead, Total	408	247	mg/kg	49	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 16,35 QC Batch ID: WG1267344-4 QC Sample: L1932112-16 Client ID: SB-107A_A1_3						
Lead, TCLP	70.3	71.2	mg/l	1		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 19,27 QC Batch ID: WG1267405-4 QC Sample: L1932112-19 Client ID: SB-107A_A1_13						
Lead, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-03
Client ID: SB-107A_A3_7-12
Sample Location: BROOKLYN, NY

Date Collected: 07/19/19 10:02
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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:

Matrix: Soil

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
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932112-13
Client ID: SB-107A_A3_W1_7-12
Sample Location: BROOKLYN, NY

Date Collected: 07/19/19 12:47
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	07/20/19 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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	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:

Matrix: Soil

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:

Matrix: Soil

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:

Matrix: Soil

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:

Matrix: Soil

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: L1932112-27

Date Collected: 07/19/19 09:28

Client ID: SB-107A_A2_3

Date Received: 07/19/19

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 - 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: L1932112-28

Date Collected: 07/19/19 09:29

Client ID: SB-107A_A2_5

Date Received: 07/19/19

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 - 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:

Matrix: Soil

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:

Matrix: Soil

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
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

SAMPLE RESULTS

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

Date Collected: 07/19/19 10:44
Date Received: 07/19/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	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:

Matrix: Soil

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: L1932112-36

Date Collected: 07/19/19 08:01

Client ID: SB-107A_5

Date Received: 07/19/19

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 - 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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	07/20/19 14:25	121,2540G	RI



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
General Chemistry - Westborough Lab Associated sample(s): 03,08,13,17-18,22,28-29,32-33,36,38 QC Batch ID: WG1262479-1 QC Sample: L1932081-01 Client ID: DUP Sample						
Solids, Total	95.0	94.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 16,19,27,35 QC Batch ID: WG1266567-1 QC Sample: L1933291-05 Client ID: DUP Sample						
Solids, Total	80.3	78.8	%	2		20

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1932112**Project Number:** 170384501**Report Date:** 08/08/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932112-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-01B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-02B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-03B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-03X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-04A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-04B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-05B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-06B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-07B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-08A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-08B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-08X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-09B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)

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

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932112-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-10B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-11A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-11B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-12A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-12B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-13A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-13B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-13X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-13X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-14B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-15B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-16B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-16X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-16X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-17B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-17X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-17X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-18B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-18X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-18X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-19B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08081914:10
Lab Number: L1932112
Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932112-19X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-19X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-20B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-21B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-22A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-22B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-22X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-22X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-23B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-24A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-24B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-25A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-25B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-26A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-26B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-27A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-27B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-27X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-27X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-28A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-28B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-28X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-28X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-29A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-29B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)

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

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932112-29X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-29X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-30A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-30B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-31A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-31B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-32A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		PB-TI(180)
L1932112-32B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		TS(7)
L1932112-32X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.6	Y	Absent		PB-CI(180)
L1932112-32X9	Tumble Vessel	A	NA		2.6	Y	Absent		-
L1932112-33A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-33B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-33X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-33X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-34A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932112-34B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-35A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-35B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-35X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-35X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-36A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-36B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)
L1932112-36X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-36X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-37A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		HOLD-METAL(180)
L1932112-37B	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14)
L1932112-38A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		PB-TI(180)
L1932112-38B	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TS(7)

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Serial_No:08081914:10

Lab Number: L1932112

Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932112-38X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.9	Y	Absent		PB-CI(180)
L1932112-38X9	Tumble Vessel	B	NA		3.9	Y	Absent		-
L1932112-39A	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		PB-TI(180)
L1932112-40A	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HOLD-CONTINGENCY(7),HOLD-METAL-TOTAL(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932112
Report Date: 08/08/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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


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


EPA 245.1 Hg.


SM2340B


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


 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	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 Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 6	Date Rec'd in Lab 7/19/19	ALPHA Job # L1932112																																																																																																																																																					
		Project Information Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																																				
Client Information Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com		Project Manager: Kimberly Del Col / Collin Anderson ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																				
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Total Lead</th> <th rowspan="2">TCLP Lead</th> <th colspan="4"></th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th colspan="4"></th> </tr> </thead> <tbody> <tr> <td>L1A 32112-01</td> <td>SB-107A_A3_3</td> <td>7/19/2019</td> <td>10:00</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>32112-02</td> <td>SB-107A_A3_5</td> <td>7/19/2019</td> <td>10:01</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-03</td> <td>SB-107A_A3_7-12</td> <td>7/19/2019</td> <td>10:02</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-04</td> <td>SB-107A_A3_12</td> <td>7/19/2019</td> <td>10:04</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-05</td> <td>SB-107A_A3_13</td> <td>7/19/2019</td> <td>10:05</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-06</td> <td>SB-107A_A3-E1_3</td> <td>7/19/2019</td> <td>12:10</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-07</td> <td>SB-107A_A3-E1_5</td> <td>7/19/2019</td> <td>12:11</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-08</td> <td>SB-107A_A3-E1_7-12</td> <td>7/19/2019</td> <td>12:12</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-09</td> <td>SB-107A_A3-E1_12</td> <td>7/19/2019</td> <td>12:13</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> <tr> <td>-10</td> <td>SB-107A_A3-E1_13</td> <td>7/19/2019</td> <td>12:14</td> <td>Soil</td> <td>TM</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>Hold ALL</td> </tr> </tbody> </table>						ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Lead	TCLP Lead					Sample Specific Comments	Date	Time					L1A 32112-01	SB-107A_A3_3	7/19/2019	10:00	Soil	TM	X	X					Hold ALL	32112-02	SB-107A_A3_5	7/19/2019	10:01	Soil	TM	X	X					Hold ALL	-03	SB-107A_A3_7-12	7/19/2019	10:02	Soil	TM	X	X						-04	SB-107A_A3_12	7/19/2019	10:04	Soil	TM	X	X					Hold ALL	-05	SB-107A_A3_13	7/19/2019	10:05	Soil	TM	X	X					Hold ALL	-06	SB-107A_A3-E1_3	7/19/2019	12:10	Soil	TM	X	X					Hold ALL	-07	SB-107A_A3-E1_5	7/19/2019	12:11	Soil	TM	X	X					Hold ALL	-08	SB-107A_A3-E1_7-12	7/19/2019	12:12	Soil	TM	X	X					Hold ALL	-09	SB-107A_A3-E1_12	7/19/2019	12:13	Soil	TM	X	X					Hold ALL	-10	SB-107A_A3-E1_13	7/19/2019	12:14	Soil	TM	X	X					Hold ALL
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-05	SB-107A_A3_13	7/19/2019	10:05	Soil	TM	X	X					Hold ALL																																																																																																																																														
-06	SB-107A_A3-E1_3	7/19/2019	12:10	Soil	TM	X	X					Hold ALL																																																																																																																																														
-07	SB-107A_A3-E1_5	7/19/2019	12:11	Soil	TM	X	X					Hold ALL																																																																																																																																														
-08	SB-107A_A3-E1_7-12	7/19/2019	12:12	Soil	TM	X	X					Hold ALL																																																																																																																																														
-09	SB-107A_A3-E1_12	7/19/2019	12:13	Soil	TM	X	X					Hold ALL																																																																																																																																														
-10	SB-107A_A3-E1_13	7/19/2019	12:14	Soil	TM	X	X					Hold ALL																																																																																																																																														
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 NEW YORK CHAIN OF CUSTODY 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 Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 6	Date Rec'd in Lab 7/19/19	ALPHA Job # L1932112										
		Project Information Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #									
Client Information Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com		Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY-CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:									
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	TM SB-107A_A3-E2_3	7/19/2019		Soil	TM	X	X						Hold All		
	TM SB-107A_A3-E2_5	7/19/2019		Soil	TM	X	X						Hold All		
	TM SB-107A_A3-E2_7-12	7/19/2019		Soil	TM	X	X						Hold All		
	TM SB-107A_A3-E2_12	7/19/2019		Soil	TM	X	X						Hold All		
	TM SB-107A_A3-E2_13	7/19/2019		Soil	TM	X	X						Hold All		
	32112-11 SB-107A_A3-W1_3	7/19/2019	12:45	Soil	TM	X	X						Hold All		
	-12 SB-107A_A3-W1_5	7/19/2019	12:46	Soil	TM	X	X						Hold All		
	-13 SB-107A_A3-W1_7-12	7/19/2019	12:42	Soil	TM	X	X								
	-14 SB-107A_A3-W1_12	7/19/2019	12:48	Soil	TM	X	X						Hold All		
	-15 SB-107A_A3-W1_13	7/19/2019	12:49	Soil	TM	X	X						Hold All		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative							
		Relinquished By: TOMAS MONTI P.S.		Date/Time 7/19/19 12:45 7/19/19 12:37 7/19/19 2:30		Received By: Renek Jackson ARL P.S. [Signature]		Date/Time 7/19, 1445 7/19/19 19:30 7/19/19 2:30				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.			

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		of 6							
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information			Deliverables		Billing Information		
Client Information		Project Name: 805-825 Atlantic Avenue			<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUiS (1 File) <input type="checkbox"/> EQUiS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #		
Client: Langan Engineering		Project Location: Brooklyn, NY			Regulatory Requirement		Disposal Site Information		
Address: 360 W 31st Street, 8th Floor		Project # 170384501			<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
New York, NY 10001		(Use Project name as Project #) <input type="checkbox"/>			Project Manager: Kimberly Del Col / Colin Anderson		Turn-Around Time		
Phone: 2124795400		ALPHAQuote #:			Standard <input checked="" type="checkbox"/>		Due Date:		
Fax: 2124795499		Rush (only if pre approved) <input type="checkbox"/>			# of Days:				
Email: kdelcol@langan.com		These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS		Sample Filtration		
Other project specific requirements/comments:		Please CC: datamanagement@langan.com			Total Lead TCLP Lead		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		
Please specify Metals or TAL.							Sample Specific Comments		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
32112-16	SB-107A_A1_3	7/19/2019	8:48	Soil	TM	X	X		
-17	SB-107A_A1_5	7/19/2019	8:49	Soil	TM	X	X		Hold All
TM	SB-107A_A1_7-12	7/19/2019	8:50	Soil	TM	X	X		
-18	SB-107A_A1_12	7/19/2019	8:50	Soil	TM	X	X		Hold All
-19	SB-107A_A1_13	7/19/2019	8:51	Soil	TM	X	X		Hold All RUN ALL
-20	SB-107A_A1-E1_3	7/19/2019	11:35	Soil	TM	X	X		Hold All
-21	SB-107A_A1-E1_5	7/19/2019	11:36	Soil	TM	X	X		Hold All
-22	SB-107A_A1-E1_7-12	7/19/2019	11:37	Soil	TM	X	X		Hold All
-23	SB-107A_A1-E1_12	7/19/2019	11:38	Soil	TM	X	X		Hold All
-24	SB-107A_A1-E1_13	7/19/2019	11:39	Soil	TM	X	X		Hold All
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
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Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time	
		TOMAS MANTI		7/19/19 19:45		Lance Jackson ALL		7/19, 1945	
		P.S.		7/19, 1537		P.S.		7/19/19 19:30	
				7/19/19 23:30				7/19/19 23:30	

 ALPHA ANALYTICAL <small>ANALYTICAL SERVICES</small>	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>4</u>	Date Rec'd in Lab <u>7/19/19</u>	ALPHA Job # <u>L193212</u>		
			of <u>6</u>				
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables		Billing Information	
Client Information		Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>		<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #	
Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com		Project Manager: Kimberly Del Col / Colin Anderson ALPHAQuote #:		Regulatory Requirement		Disposal Site Information	
		Turn-Around Time		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
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		Date	Time				
TM	SB-107A_A1-E2_3	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-E2_5	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-E2_7-12	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-E2_12	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-E2_13	7/19/2019		Soil	TM	X	X
32112-25	SB-107A_A1-W1_3	7/19/2019	13:16	Soil	TM	X	X
-26	SB-107A_A1-W1_5	7/19/2019	13:17	Soil	TM	X	X
TM	SB-107A_A1-W1_7-12	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-W1_12	7/19/2019		Soil	TM	X	X
TM	SB-107A_A1-W1_13	7/19/2019		Soil	TM	X	X
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Relinquished By: <u>TOMAS MONTI</u> P.S.		Date/Time <u>7/19/19 14:45</u> <u>7/19/19 19:37</u> <u>7/19/19 23:30</u>		Received By: <u>Rosek Jackson AAL</u> B.J.		Date/Time <u>7/19/19 14:45</u> <u>7/19/19 19:30</u> <u>7/19/19 23:30</u>	
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-29-	SB-107A_A2_12	7/19/2019	9:30	Soil	TM	X	X																																																																																																																																																																				
-30-	SB-107A_A2_13	7/19/2019	9:31	Soil	TM	X	X							Hold All																																																																																																																																																													
-31-	SB-107A_B1_3	7/19/2019	10:42	Soil	TM	X	X							Hold All																																																																																																																																																													
<p>Preservative Code: A = None B = HCl C = HNO₃ D = H₂SO₄ E = NaOH F = MeOH G = NaHSO₄ H = Na₂S₂O₃ K/E = Zn Ac/NaOH O = Other</p> <p>Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Container Type</p> <p>Preservative</p>		<p>Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS & CONDITIONS.</u></p>																																																																																																																																																																					
<p>Form No: 01-25 (rev. 30-Sept-2013)</p>		<p>Relinquished By: TOMAS MONTI P.S.</p>		<p>Date/Time: 7/19/19 19:45 7/19/19 19:37 7/19/19 23:30</p>		<p>Received By: Derrick Jackson AAL P.S.</p>		<p>Date/Time: 7/19/19 19:45 7/19/19 19:30 7/19/19 23:30</p>																																																																																																																																																																			



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page # 6
of 6

Date Rec'd in Lab: **7/19/19**

ALPHA Job #: **L193212**

Project Information				Deliverables				Billing Information			
Project Name: 805-825 Atlantic Avenue				<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B				<input checked="" type="checkbox"/> Same as Client Info			
Project Location: Brooklyn, NY				<input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File)				PO #			
Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>				<input type="checkbox"/> Other							
Client Information				Regulatory Requirement				Disposal Site Information			
Client: Langan Engineering				<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375				Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
Address: 360 W 31st Street, 8th Floor New York, NY 10001				<input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51							
Project Manager: Kimberly Del Col / Colin Anderson				<input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other							
AlphaQuote #:				<input type="checkbox"/> NY Unrestricted Use							
Turn-Around Time				<input type="checkbox"/> NYC Sewer Discharge							
Standard <input checked="" type="checkbox"/> Due Date:											
Rush (only if pre approved) <input type="checkbox"/> # of Days:											
Email: kdelcol@langan.com											

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
Please CC: datamanagement@langan.com

Please specify Metals or TAL.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Lead	TCLP Lead											ota l B o t t l e			
		Date	Time															Sample Specific Comments			
32112-32	SB-107A_B1_5	7/19/2019	10:43	Soil	TM	X	X													Hold All	
- 33	SB-107A_B1_12	7/19/2019	10:44	Soil	TM	X	X														
- 34	SB-107A_B1_13	7/19/2019	10:45	Soil	TM	X	X														Hold All
- 35	SB-107A_3	7/19/2019	8:00	Soil	TM	X	X														Hold All
- 36	SB-107A_5	7/19/2019	8:01	Soil	TM	X	X														
- 37	NIPO2-20190719	7/19/19		Soil	TM	X	X														Hold All
- 38	NIPO1-07192019	7/19/19		Soil	TM	X	X														
- 39	FB01-20190719	7/19/19	13:12	AQ	TM	X	X														
- 40	FB02-20190719	7/19/19	9:37	AQ	TM	X	X														Hold All

Preservative Code: A = None B = HCl C = HNO3 D = H2SO4 E = NaOH F = MeOH G = NaHSO4 H = Na2S2O3 K/E = Zn Ac/NaOH O = Other	Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015
		Container Type
		Preservative

Relinquished By: <i>Thomas Morris</i>	Date/Time 7/19/19 14:45	Received By: <i>Romeck Jackson</i>	Date/Time 7/19 14:45
<i>P.S.</i>	7/19 19:37	<i>P.S.</i>	7/19 19:30
	7/19/19 23:30		7/19/19 23:30

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

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.



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_A4_-E1_3	SOIL	BROOKLYN, NY	07/22/19 07:15	07/22/19
L1932369-12	SB-107A_A4_-E1_5	SOIL	BROOKLYN, NY	07/22/19 07:16	07/22/19
L1932369-13	SB-107A_A4_-E1_7-12	SOIL	BROOKLYN, NY	07/22/19 07:17	07/22/19
L1932369-14	SB-107A_A4_-E1_12	SOIL	BROOKLYN, NY	07/22/19 07:18	07/22/19
L1932369-15	SB-107A_A4_-E1_13	SOIL	BROOKLYN, NY	07/22/19 07:19	07/22/19
L1932369-16	SB-107A_A4_-E2_3	SOIL	BROOKLYN, NY	07/22/19 07:20	07/22/19
L1932369-17	SB-107A_A4_-E2_5	SOIL	BROOKLYN, NY	07/22/19 07:21	07/22/19
L1932369-18	SB-107A_A4_-E2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:22	07/22/19
L1932369-19	SB-107A_A4_-E2_12	SOIL	BROOKLYN, NY	07/22/19 07:23	07/22/19
L1932369-20	SB-107A_A4_-E2_13	SOIL	BROOKLYN, NY	07/22/19 07:24	07/22/19
L1932369-21	SB-107A_A4_-W1_3	SOIL	BROOKLYN, NY	07/22/19 07:10	07/22/19
L1932369-22	SB-107A_A4_-W1_5	SOIL	BROOKLYN, NY	07/22/19 07:11	07/22/19
L1932369-23	SB-107A_A4_-W1_7-12	SOIL	BROOKLYN, NY	07/22/19 07:12	07/22/19
L1932369-24	SB-107A_A4_-W1_12	SOIL	BROOKLYN, NY	07/22/19 07:13	07/22/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1932369-25	SB-107A_A4_-W1_13	SOIL	BROOKLYN, NY	07/22/19 07:14	07/22/19
L1932369-26	SB-107A_A4_-W2_3	SOIL	BROOKLYN, NY	07/22/19 07:38	07/22/19
L1932369-27	SB-107A_A4_-W2_5	SOIL	BROOKLYN, NY	07/22/19 07:39	07/22/19
L1932369-28	SB-107A_A4_-W2_7-12	SOIL	BROOKLYN, NY	07/22/19 07:40	07/22/19
L1932369-29	SB-107A_A4_-W2_12	SOIL	BROOKLYN, NY	07/22/19 07:41	07/22/19
L1932369-30	SB-107A_A4_-W2_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	DRUM01_20190722	SOIL	BROOKLYN, NY	07/22/19 07:49	07/22/19

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
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
Project Number: 170384501

Lab Number: L1932369
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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 08/08/19

METALS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-41
 Client ID: SB-107A_A1-W1_7-12
 Sample Location: BROOKLYN, NY

Date Collected: 07/22/19 07:25
 Date Received: 07/22/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/23/19 16:11
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.072	J	mg/l	0.500	0.027	1	07/26/19 11:57	07/27/19 02:38	EPA 3015	1,6010D	LC
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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

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	36.8		mg/kg	2.18	0.117	1	07/25/19 20:00	07/26/19 22:29	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932369

Project Number: 170384501

Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-51
 Client ID: DRUM01_20190722
 Sample Location: BROOKLYN, NY

Date Collected: 07/22/19 07:49
 Date Received: 07/22/19
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 07/23/19 16:11
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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	LC
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-51
 Client ID: DRUM01_20190722
 Sample Location: BROOKLYN, NY

Date Collected: 07/22/19 07:49
 Date Received: 07/22/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	351		mg/kg	2.11	0.113	1	07/25/19 20:00	07/26/19 22:34	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 41,51 Batch: WG1264650-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	07/25/19 20:00	07/26/19 20:12	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 1311 - Mansfield Lab for sample(s): 41,51 Batch: WG1264972-1										
Lead, TCLP	0.032	J	mg/l	0.500	0.027	1	07/26/19 11:57	07/26/19 23:42	1,6010D	LC

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: 08/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 41,51 Batch: WG1264650-2 SRM Lot Number: D105-540								
Lead, Total	80		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 41,51 Batch: WG1264972-2								
Lead, TCLP	98		-		75-125	-		20



Matrix Spike Analysis
Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1932369

Project Number: 170384501

Report Date: 08/08/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 41,51 QC Batch ID: WG1264650-3 QC Sample: L1932382-01 Client ID: MS Sample												
Lead, Total	60.4	42.8	94.0	78		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 41,51 QC Batch ID: WG1264972-3 QC Sample: 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: 08/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 41,51 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 sample(s): 41,51 QC Batch ID: WG1264972-4 QC Sample: L1932311-12 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 - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	07/23/19 15:34	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

SAMPLE RESULTS

Lab ID: L1932369-51
Client ID: DRUM01_20190722
Sample Location: BROOKLYN, NY

Date Collected: 07/22/19 07:49
Date Received: 07/22/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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: 08/08/19

Parameter	Native Sample	Duplicate 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**Lab Number:** L1932369**Project Number:** 170384501**Report Date:** 08/08/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932369-01A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-01B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-02A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-02B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-03A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-03B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-04A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-04B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-05A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-05B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-06A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-06B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-07A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-07B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-08A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-08B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-09A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-09B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-10A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-10B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-11A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-11B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08081914:12
Lab Number: L1932369
Report Date: 08/08/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932369-12A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-12B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-13A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-13B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-14A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-14B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-15A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-15B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-16A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-16B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-17A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-17B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-18A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-18B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-19A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-19B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-20A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-20B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-21A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-21B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-22A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-22B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-23A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-23B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-24A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-24B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-25A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-25B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)

*Values in parentheses indicate holding time in days



Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1932369**Project Number:** 170384501**Report Date:** 08/08/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932369-26A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-26B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-27A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-27B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-28A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-28B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-29A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-29B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-30A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-30B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-31A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-31B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-32A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-32B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-33A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-33B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-34A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-34B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-35A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-35B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-36A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-36B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-37A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-37B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-38A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-38B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-39A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-39B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1932369**Project Number:** 170384501**Report Date:** 08/08/19**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1932369-40A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-40B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-41A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		PB-TI(180)
L1932369-41B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		TS(7)
L1932369-41X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.9	Y	Absent		PB-CI(180)
L1932369-41X9	Tumble Vessel	A	NA		3.9	Y	Absent		-
L1932369-42A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-42B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-43A	Glass 60mL/2oz unpreserved	A	NA		3.9	Y	Absent		HOLD-METAL(180)
L1932369-43B	Glass 120ml/4oz unpreserved	A	NA		3.9	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-44A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-44B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-45A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-45B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-46A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-46B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-47A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-47B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-48A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-48B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-49A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L1932369-49B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14)
L1932369-50A	Plastic 250ml HNO3 preserved	B	<2	<2	3.2	Y	Absent		HOLD-CONTINGENCY(7),HOLD-METAL-TOTAL(180)
L1932369-51A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		PB-TI(180)
L1932369-51B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		TS(7)
L1932369-51X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.2	Y	Absent		PB-CI(180)
L1932369-51X9	Tumble Vessel	B	NA		3.2	Y	Absent		-

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1932369
Report Date: 08/08/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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


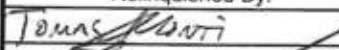
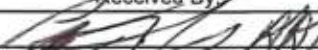




EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 6		Date Rec'd in Lab 7/23/19		ALPHA Job # L1932369			
		Client Information Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com		Project Information Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input checked="" type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #			
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input checked="" type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other:							
These samples have been previously analyzed by Alpha <input type="checkbox"/>						ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Other project specific requirements/comments: Please CC: datamanagement@langan.com						Total Lead TCLP Lead		o t a l B o t t l e			
Please specify Metals or TAL.						DATE = 7/22/19 FOR ALL					
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Lead	TCLP Lead			Sample Specific Comments	
		Date	Time								
32369-01	SB-107A_A3-W2-3	7/19/2019	7:33	Soil	TM	X	X			Hold All	
02	SB-107A_A3-W2-5	7/19/2019	7:34	Soil	TM	X	X			Hold All	
03	SB-107A_A3-W2-7-12	7/19/2019	7:35	Soil	TM	X	X			Hold All	
04	SB-107A_A3-W2-22	7/19/2019	7:36	Soil	TM	X	X			Hold All	
05	SB-107A_A3-W2-13	7/19/2019	7:37	Soil	TM	X	X			Hold All	
06	SB-107A_A4_3	7/19/2019	7:28	Soil	TM	X	X			Hold All	
07	SB-107A_A4_5	7/19/2019	7:29	Soil	TM	X	X			Hold All	
08	SB-107A_A4_7-12	7/19/2019	7:30	Soil	TM	X	X			Hold All	
09	SB-107A_A4_12	7/19/2019	7:31	Soil	TM	X	X			Hold All	
10	SB-107A_A4_13	7/19/2019	7:32	Soil	TM	X	X			Hold All	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
Relinquished By:		Date/Time		Received By:		Date/Time					
Tomas M...		7/22/19 15:00		...		7/23/19 15:00					
...		7/22/19 14:00		...		7/22/19 15:00					
...		7/23/19 03:45		...		7/23/19 03:45					

 ALPHA ANALYTICAL 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 Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>2</u>	Date Rec'd in Lab 7/23/19	ALPHA Job # L1932369																							
			of <u>6</u>																									
Project Information Project Name: 805-825 Atlantic Avenue Project Location: Brooklyn, NY Project #: 170384501 (Use Project name as Project #) <input type="checkbox"/>			Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input checked="" type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																							
Client Information Client: Langan Engineering Address: 360 W 31st Street, 8th Floor New York, NY 10001 Phone: 2124795400 Fax: 2124795499 Email: kdelcol@langan.com			Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input checked="" type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other:																							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please CC: datamanagement@langan.com Please specify Metals or TAL.			ANALYSIS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Lead</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">TCLP Lead</th> <th colspan="10"></th> </tr> <tr> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </table>		Total Lead	TCLP Lead																						Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
Total Lead	TCLP Lead																											
DATE = 7/22/19 for ALL					Sample Specific Comments																							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials																								
		Date Time																										
32369 - 11	SB-107A_A4_-E1_3	7/19/2019 7:15	Soil	TM	X	X						Hold All																
12	SB-107A_A4_-E1_5	7/19/2019 7:16	Soil	TM	X	X						Hold All																
13	SB-107A_A4_-E1_7-12	7/19/2019 7:17	Soil	TM	X	X						Hold All																
14	SB-107A_A4_-E1_12	7/19/2019 7:18	Soil	TM	X	X						Hold All																
15	SB-107A_A4_-E1_13	7/19/2019 7:19	Soil	TM	X	X						Hold All																
16	SB-107A_A4_-E2_3	7/19/2019 7:20	Soil	TM	X	X						Hold All																
17	SB-107A_A4_-E2_5	7/19/2019 7:21	Soil	TM	X	X						Hold All																
18	SB-107A_A4_-E2_7-12	7/19/2019 7:22	Soil	TM	X	X						Hold All																
19	SB-107A_A4_-E2_12	7/19/2019 7:23	Soil	TM	X	X						Hold All																
20	SB-107A_A4_-E2_13	7/19/2019 7:24	Soil	TM	X	X						Hold All																
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative								Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.														
						A A A A																						
Relinquished By:			Date/Time		Received By:			Date/Time																				
			7/22/19 1500					7/22/19 1500																				
			7/23/19 1831					7/23/19 2200																				
			7/23/19 0345					7/23/19 0719																				



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-698-9220
FAX: 508-698-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3
of 6

Date Rec'd
In Lab 7/23/19

ALPHA Job #
L1932369

Project Information

Project Name: 805-825 Atlantic Avenue

Project Location: Brooklyn, NY

Project #: 170384501

(Use Project name as Project #)

Project Manager: Kimberly Del Col / Colin Anderson

ALPHAQuote #:

Turn-Around Time

Standard Due Date:

of Days:

Rush (only if pre approved)

Deliverables

ASP-A ASP-B
 EQuIS (1 File) EQuIS (4 File)
 Other

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Billing Information

Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal-Facility:
 NJ NY
 Other:

Client Information

Client: Langan Engineering

Address: 360 W 31st Street, 8th Floor

New York, NY 10001

Phone: 2124795400

Fax: 2124795499

Email: kdelcol@langan.com

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please CC: datamanagement@langan.com

Please specify Metals or TAL.

DATE = 7/22/19 FOR ALL

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Lead	TCLP Lead						Sample Filtration		Sample Specific Comments
		Date	Time										<input type="checkbox"/> Done	<input type="checkbox"/> Lab to do	
<u>3236A - 21</u>	SB-107A_A4_W1_3	<u>7/19/2019</u>	<u>7:10</u>	Soil	TM	X	X								Hold All
<u>22</u>	SB-107A_A4_W1_5	<u>7/19/2019</u>	<u>7:11</u>	Soil	TM	X	X								Hold All
<u>23</u>	SB-107A_A4_W1_7-12	<u>7/19/2019</u>	<u>7:12</u>	Soil	TM	X	X								Hold All
<u>24</u>	SB-107A_A4_W1_12	<u>7/19/2019</u>	<u>7:13</u>	Soil	TM	X	X								Hold All
<u>25</u>	SB-107A_A4_W1_13	<u>7/19/2019</u>	<u>7:14</u>	Soil	TM	X	X								Hold All
<u>26</u>	SB-107A_A4_W2_3	<u>7/19/2019</u>	<u>7:38</u>	Soil	TM	X	X								Hold All
<u>27</u>	SB-107A_A4_W2_5	<u>7/19/2019</u>	<u>7:39</u>	Soil	TM	X	X								Hold All
<u>28</u>	SB-107A_A4_W2_7-12	<u>7/19/2019</u>	<u>7:40</u>	Soil	TM	X	X								Hold All
<u>29</u>	SB-107A_A4_W2_12	<u>7/19/2019</u>	<u>7:41</u>	Soil	TM	X	X								Hold All
<u>30</u>	SB-107A_A4_W2_13	<u>7/19/2019</u>	<u>7:42</u>	Soil	TM	X	X								Hold All

Preservative Code:

A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code

P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935


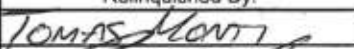
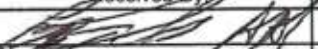



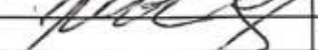
Mansfield: Certification No: MA015


Container Type AA


Preservative AA

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Thomas Gonn</u>	<u>7/22/19 1500</u>	<u>[Signature]</u>	<u>7/22/19 1610</u>
<u>[Signature]</u>	<u>7/22/19 1430</u>	<u>[Signature]</u>	<u>7/22/19 2300</u>
<u>[Signature]</u>	<u>7/23/19 0345</u>	<u>[Signature]</u>	<u>7/23/19 0345</u>

 ALPHA ANALYTICAL <small>ANALYTICAL</small>	NEW YORK CHAIN OF CUSTODY	<u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 4	Date Rec'd in Lab 7/23/19	ALPHA Job # L1932369				
			of 6						
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: 508-822-3286	Project Information Project Name: 805-825 Atlantic Avenue Project Location: 805-825 Atlantic Avenue, Brooklyn, NY Project # 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #				
Client Information Client: Langan Engineering Address: 21 Penn Plaza, 360 W. 31st St 8th Fl., NY, NY 10001-2727 Phone: (212) 479-5400 Fax: (212) 479-5444 Email: kdelcol@langan.com		Project Manager: Kimberly Del Col / COLIN ANDERSON ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input checked="" type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other:				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Note "HOLD" on some samples, these are to be held pending PM authorization Please specify Metals or TAL.		ANALYSIS			Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)				
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Volatile Lead	TCLP Lead	Sample Specific Comments	Total Bottles
		Date	Time						
32369-31	SB-107A-A3-E2-3	7/22/19	7:00	Soil	TM	X	X	HOLD ALL	
32	SB-107A-A3-E2-5		7:01	Soil				HOLD ALL	
33	SB-107A-A3-E2-7-12		7:02	Soil				HOLD ALL	
34	SB-107A-A3-E2-12		7:03	Soil				HOLD ALL	
35	SB-107A-A3-E2-13		7:04	Soil				HOLD ALL	
36	SB-107A-A1-E2-3		7:05	Soil				HOLD ALL	
37	SB-107A-A1-E2-5		7:06	Soil				HOLD ALL	
38	SB-107A-A1-E2-7-12		7:07	Soil				HOLD ALL	
39	SB-107A-A1-E2-12		7:08	Soil				HOLD ALL	
40	SB-107A-A1-E2-13		7:09	Soil				HOLD ALL	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type A A Preservative A A	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)				
Relinquished By:		Date/Time		Received By:		Date/Time			
		7/22/19 1500				7/22/19 1500			
		7/22/19 1800				7/22/19 2300			
		7/23/19 0315				7/23/19 0315			

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>5</u>	Date Rec'd in Lab <u>7/23/19</u>	ALPHA Job # <u>L1932369</u>																																																																																																														
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Project Manager: <u>Kimberly Del Col / COLIN ANDERSON</u> ALPHAQuote #: _____ Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement																																																																																																																
		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge																																																																																																																
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 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p><u>Service Centers</u> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14160: 275 Cooper Ave, Suite 105</p>		<p>Page <u>6</u> of <u>6</u></p>	<p>Date Rec'd in Lab <u>7/23/19</u></p>	<p>ALPHA Job # <u>L1932369</u></p>																																																																																																																																																																																																													
	<p>Project Information</p> <p>Project Name: <u>805-825 Atlantic Avenue</u> Project Location: <u>805-825 Atlantic Avenue, Brooklyn, NY</u> Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/></p>			<p>Deliverables</p> <p><input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input checked="" type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other</p>		<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO #</p>																																																																																																																																																																																																												
	<p>Client Information</p> <p>Client: <u>Langan Engineering</u> Address: <u>21 Penn Plaza, 360 W. 31st St 8th Fl., NY, NY 10001-2727</u> Phone: <u>(212) 479-5400</u> Fax: <u>(212) 479-5444</u> Email: <u>kdelcol@langan.com</u></p>			<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>		<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities. Disposal Facility: <input checked="" type="checkbox"/> NJ <input checked="" type="checkbox"/> NY <input type="checkbox"/> Other:</p>																																																																																																																																																																																																												
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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

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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: 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
L1925921-24	SB-05_12-13	SOIL	BROOKLYN, NY	06/14/19 10:10	06/14/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection 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

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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
Project Number: 170384501

Lab Number: L1925921
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
Project Number: 170384501

Lab Number: L1925921
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:

 Cristin Walker

Title: Technical Director/Representative

Date: 08/14/19

ORGANICS

VOLATILES

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-05
 Client ID: WC-03_2-3
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:10
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 15:13
 Analyst: AD
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile 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	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	0.11	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	0.81	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	0.81	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-1,2-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
 Client ID: WC-03_2-3
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:10
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-05
Client ID: WC-03_2-3
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:10
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

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	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-06
 Client ID: WC-03_7-8
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 15:43
 Analyst: AD
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.2	1.9	1
1,1-Dichloroethane	ND		ug/kg	0.83	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
 Client ID: WC-03_7-8
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.42	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.14	1
Methyl tert butyl ether	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
 Client ID: WC-03_7-8
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1925921**Project Number:** 170384501**Report Date:** 08/14/19**SAMPLE RESULTS**

Lab ID: L1925921-07
 Client ID: WC-03_15-16
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:30
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/20/19 16:13
 Analyst: AD
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	3.9	1.8	1
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	0.11	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
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	1.6	0.35	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
 Client ID: WC-03_15-16
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:30
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.39	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.11	1
1,3-Dichlorobenzene	ND		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
 Client ID: WC-03_15-16
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:30
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatiles 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	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1925921**Project Number:** 170384501**Report Date:** 08/14/19**SAMPLE RESULTS**

Lab ID: L1925921-08
 Client ID: WC-03_25-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:07
 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: AD
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough 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
 Client ID: WC-03_25-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:07
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.11	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	0.50	J	ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.44	1
o-Xylene	ND		ug/kg	0.79	0.23	1
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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-08
Client ID: WC-03_25-26
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 09:07
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

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	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05-08 Batch: WG1251021-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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	MDL
Volatile Organics by EPA 5035 Low - Westborough 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 Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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	MDL
Volatile Organics by EPA 5035 Low - Westborough 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	5.1
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	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	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 Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1925921**Project Number:** 170384501**Report Date:** 08/14/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/20/19 08:19
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 05-08 Batch: WG1251021-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-08 Batch: WG1251021-3 WG1251021-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-08 Batch: WG1251021-3 WG1251021-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-08 Batch: WG1251021-3 WG1251021-4								
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

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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 05-08 Batch: WG1251021-3 WG1251021-4								
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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
 Client ID: WC-03_0-6
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/22/19 04:39
 Analyst: RC
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:03

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

Sample Depth:

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

Sample Depth:

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	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
 Client ID: WC-03_0-6
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance 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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
 Client ID: WC-03_6-12
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/22/19 01:51
 Analyst: RC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:16

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
Butyl benzyl phthalate	ND		ug/kg	170	44.	1

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: 06/14/19 12:05
 Date Received: 06/14/19
 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	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
 Client ID: WC-03_6-12
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
 Date Received: 06/14/19
 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 Compounds

No Tentatively Identified Compounds	ND	ug/kg	1
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Surrogate	% Recovery	Qualifier	Acceptance 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

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
 Client ID: WC-03_12-18
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/21/19 22:38
 Analyst: RC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 03:03

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	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
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
 Client ID: WC-03_12-18
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
 Date Received: 06/14/19
 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	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
 Client ID: WC-03_12-18
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
 Date Received: 06/14/19
 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	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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	89		18-120

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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 - Westborough 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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 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	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	Qualifier	Acceptance 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

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 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
Extraction Date: 06/20/19 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatle 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.

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 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
Extraction Date: 06/20/19 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1250700-1					
Di-n-octylphthalate	ND		ug/kg	170	56.
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	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.
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-Chlorophenol	ND		ug/kg	170	20.

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 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
Extraction Date: 06/20/19 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(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
Project Number: 170384501

Lab Number: L1925921
Report Date: 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
 Extraction Date: 06/20/19 02:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1250700-1					

Surrogate	%Recovery	Qualifier	Acceptance 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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1250700-2 WG1250700-3								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1250700-2 WG1250700-3								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1250700-2 WG1250700-3								
4-Chloroaniline	76		72		40-140	5		50
2-Nitroaniline	89		90		47-134	1		50
3-Nitroaniline	83		81		26-129	2		50
4-Nitroaniline	86		87		41-125	1		50
Dibenzofuran	73		76		40-140	4		50
2-Methylnaphthalene	73		71		40-140	3		50
1,2,4,5-Tetrachlorobenzene	72		71		40-117	1		50
Acetophenone	73		69		14-144	6		50
n-Nitrosodimethylamine	69		68		22-100	1		50
2,4,6-Trichlorophenol	84		84		30-130	0		50
p-Chloro-m-cresol	84		83		26-103	1		50
2-Chlorophenol	80		77		25-102	4		50
2,4-Dichlorophenol	83		81		30-130	2		50
2,4-Dimethylphenol	78		77		30-130	1		50
2-Nitrophenol	71		69		30-130	3		50
4-Nitrophenol	85		88		11-114	3		50
2,4-Dinitrophenol	14		15		4-130	7		50
4,6-Dinitro-o-cresol	14		16		10-130	13		50
Pentachlorophenol	77		81		17-109	5		50
Phenol	72		72		26-90	0		50
2-Methylphenol	81		79		30-130.	3		50
3-Methylphenol/4-Methylphenol	81		78		30-130	4		50
2,4,5-Trichlorophenol	84		89		30-130	6		50

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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1250700-2 WG1250700-3								
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

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance 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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
Client ID: WC-03_0-6
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/20/19 22:51
Analyst: KB
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:39
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 - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	3.18	1	A
Aroclor 1221	ND		ug/kg	35.8	3.59	1	A
Aroclor 1232	ND		ug/kg	35.8	7.60	1	A
Aroclor 1242	ND		ug/kg	35.8	4.83	1	A
Aroclor 1248	ND		ug/kg	35.8	5.38	1	A
Aroclor 1254	ND		ug/kg	35.8	3.92	1	A
Aroclor 1260	ND		ug/kg	35.8	6.62	1	A
Aroclor 1262	ND		ug/kg	35.8	4.55	1	A
Aroclor 1268	ND		ug/kg	35.8	3.71	1	A
PCBs, Total	ND		ug/kg	35.8	3.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
Client ID: WC-03_6-12
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/20/19 23:04
Analyst: KB
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:39
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 - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	2.99	1	A
Aroclor 1221	ND		ug/kg	33.7	3.38	1	A
Aroclor 1232	ND		ug/kg	33.7	7.15	1	A
Aroclor 1242	ND		ug/kg	33.7	4.54	1	A
Aroclor 1248	ND		ug/kg	33.7	5.06	1	A
Aroclor 1254	ND		ug/kg	33.7	3.69	1	A
Aroclor 1260	ND		ug/kg	33.7	6.23	1	A
Aroclor 1262	ND		ug/kg	33.7	4.28	1	A
Aroclor 1268	ND		ug/kg	33.7	3.49	1	A
PCBs, Total	ND		ug/kg	33.7	2.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
Client ID: WC-03_12-18
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/20/19 23:16
Analyst: KB
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:39
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 - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.08	1	A
Aroclor 1221	ND		ug/kg	34.7	3.48	1	A
Aroclor 1232	ND		ug/kg	34.7	7.36	1	A
Aroclor 1242	ND		ug/kg	34.7	4.68	1	A
Aroclor 1248	ND		ug/kg	34.7	5.21	1	A
Aroclor 1254	ND		ug/kg	34.7	3.80	1	A
Aroclor 1260	ND		ug/kg	34.7	6.42	1	A
Aroclor 1262	ND		ug/kg	34.7	4.41	1	A
Aroclor 1268	ND		ug/kg	34.7	3.60	1	A
PCBs, Total	ND		ug/kg	34.7	3.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
Client ID: WC-03_18-26
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/20/19 23:29
Analyst: KB
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:39
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 - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.4	2.97	1	A
Aroclor 1221	ND		ug/kg	33.4	3.35	1	A
Aroclor 1232	ND		ug/kg	33.4	7.08	1	A
Aroclor 1242	ND		ug/kg	33.4	4.50	1	A
Aroclor 1248	ND		ug/kg	33.4	5.01	1	A
Aroclor 1254	ND		ug/kg	33.4	3.66	1	A
Aroclor 1260	ND		ug/kg	33.4	6.17	1	A
Aroclor 1262	ND		ug/kg	33.4	4.24	1	A
Aroclor 1268	ND		ug/kg	33.4	3.46	1	A
PCBs, Total	ND		ug/kg	33.4	2.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

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 - Westborough Lab for sample(s): 01-04 Batch: WG1250458-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.27	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.40	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.38	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	69		30-150	B

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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1250458-2 WG1250458-3									
Aroclor 1016	72		70		40-140	3		50	A
Aroclor 1260	61		60		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
Client ID: WC-03_0-6
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/19 15:43
Analyst: AMC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:41
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.712	0.318	1	A
Alpha-BHC	ND		ug/kg	0.712	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.648	1	A
Heptachlor	ND		ug/kg	0.854	0.383	1	A
Aldrin	ND		ug/kg	1.71	0.602	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.961	1	A
Endrin	ND		ug/kg	0.712	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.747	1	A
Endrin ketone	ND		ug/kg	1.71	0.440	1	A
Dieldrin	ND		ug/kg	1.07	0.534	1	A
4,4'-DDE	ND		ug/kg	1.71	0.395	1	A
4,4'-DDD	ND		ug/kg	1.71	0.609	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.71	0.404	1	A
Endosulfan II	ND		ug/kg	1.71	0.571	1	A
Endosulfan sulfate	ND		ug/kg	0.712	0.339	1	A
Methoxychlor	ND		ug/kg	3.20	0.996	1	A
Toxaphene	ND		ug/kg	32.0	8.97	1	A
cis-Chlordane	ND		ug/kg	2.14	0.595	1	A
trans-Chlordane	ND		ug/kg	2.14	0.564	1	A
Chlordane	ND		ug/kg	13.9	5.66	1	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
 Client ID: WC-03_0-6
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	253	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	117		30-150	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
 Client ID: WC-03_0-6
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/20/19 17:38
 Analyst: DGM
 Percent Solids: 91%
 Methylation Date: 06/18/19 03:08

Extraction Method: EPA 8151A
 Extraction Date: 06/17/19 11:57

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	A
2,4,5-T	ND		ug/kg	182	5.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	85		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
 Client ID: WC-03_6-12
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/21/19 15:55
 Analyst: AMC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 05:41
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.62	0.317	1	A
Lindane	ND		ug/kg	0.675	0.302	1	A
Alpha-BHC	ND		ug/kg	0.675	0.192	1	A
Beta-BHC	ND		ug/kg	1.62	0.614	1	A
Heptachlor	ND		ug/kg	0.810	0.363	1	A
Aldrin	ND		ug/kg	1.62	0.570	1	A
Heptachlor epoxide	ND		ug/kg	3.04	0.911	1	A
Endrin	ND		ug/kg	0.675	0.277	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.709	1	A
Endrin ketone	ND		ug/kg	1.62	0.417	1	A
Dieldrin	ND		ug/kg	1.01	0.506	1	A
4,4'-DDE	ND		ug/kg	1.62	0.375	1	A
4,4'-DDD	ND		ug/kg	1.62	0.578	1	A
4,4'-DDT	ND		ug/kg	3.04	1.30	1	A
Endosulfan I	ND		ug/kg	1.62	0.383	1	A
Endosulfan II	ND		ug/kg	1.62	0.541	1	A
Endosulfan sulfate	ND		ug/kg	0.675	0.321	1	A
Methoxychlor	ND		ug/kg	3.04	0.945	1	A
Toxaphene	ND		ug/kg	30.4	8.51	1	A
cis-Chlordane	ND		ug/kg	2.02	0.564	1	A
trans-Chlordane	ND		ug/kg	2.02	0.535	1	A
Chlordane	ND		ug/kg	13.2	5.37	1	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
 Client ID: WC-03_6-12
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
 Client ID: WC-03_6-12
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/20/19 17:57
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 06/18/19 03:08

Extraction Method: EPA 8151A
 Extraction Date: 06/17/19 11:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	90		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
Client ID: WC-03_12-18
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/21/19 16:06
Analyst: AMC
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 06/20/19 05:41
Cleanup Method: EPA 3620B
Cleanup Date: 06/21/19

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	A
Lindane	ND		ug/kg	0.680	0.304	1	A
Alpha-BHC	ND		ug/kg	0.680	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.619	1	A
Heptachlor	ND		ug/kg	0.816	0.366	1	A
Aldrin	ND		ug/kg	1.63	0.575	1	A
Heptachlor epoxide	ND		ug/kg	3.06	0.919	1	A
Endrin	ND		ug/kg	0.680	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.714	1	A
Endrin ketone	ND		ug/kg	1.63	0.420	1	A
Dieldrin	ND		ug/kg	1.02	0.510	1	A
4,4'-DDE	ND		ug/kg	1.63	0.378	1	A
4,4'-DDD	ND		ug/kg	1.63	0.582	1	A
4,4'-DDT	ND		ug/kg	3.06	1.31	1	A
Endosulfan I	ND		ug/kg	1.63	0.386	1	A
Endosulfan II	ND		ug/kg	1.63	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.680	0.324	1	A
Methoxychlor	ND		ug/kg	3.06	0.953	1	A
Toxaphene	ND		ug/kg	30.6	8.57	1	A
cis-Chlordane	ND		ug/kg	2.04	0.569	1	A
trans-Chlordane	ND		ug/kg	2.04	0.539	1	A
Chlordane	ND		ug/kg	13.3	5.41	1	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
 Client ID: WC-03_12-18
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	44		30-150	B
Decachlorobiphenyl	40		30-150	B
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
 Client ID: WC-03_12-18
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/20/19 18:16
 Analyst: DGM
 Percent Solids: 94%
 Methylation Date: 06/18/19 03:08

Extraction Method: EPA 8151A
 Extraction Date: 06/17/19 11:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	78		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/21/19 16:18
 Analyst: AMC
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 06/20/19 05:41
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/21/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.830	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.933	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	ND		ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	ND		ug/kg	3.11	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	ND		ug/kg	2.07	0.578	1	A
trans-Chlordane	ND		ug/kg	2.07	0.548	1	A
Chlordane	ND		ug/kg	13.5	5.50	1	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/20/19 18:35
 Analyst: DGM
 Percent Solids: 96%
 Methylation Date: 06/18/19 03:08

Extraction Method: EPA 8151A
 Extraction Date: 06/17/19 11:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	170	10.7	1	A
2,4,5-T	ND		ug/kg	170	5.27	1	A
2,4,5-TP (Silvex)	ND		ug/kg	170	4.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	94		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/18/19 04:11
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 06/16/19 23:38

Methylation Date: 06/17/19 11:01

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-04 Batch: WG1249450-1						
2,4-D	ND		ug/kg	161	10.2	A
2,4,5-T	ND		ug/kg	161	5.00	A
2,4,5-TP (Silvex)	ND		ug/kg	161	4.29	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	84		30-150	B

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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 - Westborough Lab for sample(s): 01-04 Batch: WG1250433-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.642	0.287	A
Alpha-BHC	ND		ug/kg	0.642	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.584	A
Heptachlor	ND		ug/kg	0.770	0.345	A
Aldrin	ND		ug/kg	1.54	0.542	A
Heptachlor epoxide	ND		ug/kg	2.89	0.866	A
Endrin	ND		ug/kg	0.642	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.674	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.963	0.481	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.549	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.364	A
Endosulfan II	ND		ug/kg	1.54	0.515	A
Endosulfan sulfate	ND		ug/kg	0.642	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.898	A
Toxaphene	ND		ug/kg	28.9	8.09	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.508	A
Chlordane	ND		ug/kg	12.5	5.10	A

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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 - Westborough Lab for sample(s): 01-04 Batch: WG1250433-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	86		30-150	A

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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1249450-2 WG1249450-3									
2,4-D	106		107		30-150	1		30	A
2,4,5-T	103		103		30-150	0		30	A
2,4,5-TP (Silvex)	114		111		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	98		98		30-150	A
DCAA	92		92		30-150	B



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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1250433-2 WG1250433-3									
Delta-BHC	74		54		30-150	31	Q	30	A
Lindane	74		56		30-150	28		30	A
Alpha-BHC	78		56		30-150	33	Q	30	A
Beta-BHC	69		52		30-150	28		30	A
Heptachlor	82		51		30-150	47	Q	30	A
Aldrin	75		46		30-150	48	Q	30	A
Heptachlor epoxide	75		47		30-150	46	Q	30	A
Endrin	77		49		30-150	44	Q	30	A
Endrin aldehyde	52		35		30-150	39	Q	30	A
Endrin ketone	62		42		30-150	38	Q	30	A
Dieldrin	79		48		30-150	49	Q	30	A
4,4'-DDE	72		43		30-150	50	Q	30	A
4,4'-DDD	74		45		30-150	49	Q	30	A
4,4'-DDT	76		46		30-150	49	Q	30	A
Endosulfan I	69		43		30-150	46	Q	30	A
Endosulfan II	68		43		30-150	45	Q	30	A
Endosulfan sulfate	49		35		30-150	33	Q	30	A
Methoxychlor	82		53		30-150	43	Q	30	A
cis-Chlordane	66		45		30-150	38	Q	30	A
trans-Chlordane	58		46		30-150	23		30	A

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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04 Batch: WG1250433-2 WG1250433-3

Surrogate	LCS %Recovery	Qual	LCSD %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: 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:

TCLP/SPLP Ext. Date: 06/28/19 06:04

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.044	J	mg/l	0.500	0.027	1	07/06/19 18:22	07/08/19 14:29	EPA 3015	1,6010D	LC
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Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
 Client ID: WC-03_0-6
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	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 - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	0.88	0.88	1		06/24/19 17:19	NA	107,-	



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: 06/14/19 12:05
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5030		mg/kg	8.27	2.23	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.13	0.314	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
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
Barium, Total	29.3		mg/kg	0.827	0.144	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.413	0.027	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Cadmium, Total	0.422	J	mg/kg	0.827	0.081	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Calcium, Total	1440		mg/kg	8.27	2.89	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Chromium, Total	16.1		mg/kg	0.827	0.079	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Cobalt, Total	6.18		mg/kg	1.65	0.137	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Copper, Total	16.8		mg/kg	0.827	0.213	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Iron, Total	11300		mg/kg	4.13	0.747	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Lead, Total	7.42		mg/kg	4.13	0.222	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Magnesium, Total	2750		mg/kg	8.27	1.27	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Manganese, Total	263		mg/kg	0.827	0.131	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.080	0.052	1	06/20/19 19:00	06/20/19 23:10	EPA 7471B	1,7471B	EA
Nickel, Total	32.6		mg/kg	2.07	0.200	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Potassium, Total	954		mg/kg	207	11.9	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
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
Sodium, Total	117	J	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		mg/kg	0.827	0.168	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
Zinc, Total	29.9		mg/kg	4.13	0.242	2	06/20/19 21:06	06/24/19 17:28	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.85	0.85	1		06/24/19 17:28	NA	107,-	



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
 Client ID: WC-03_18-26
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6210		mg/kg	8.14	2.20	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.07	0.309	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
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
Barium, Total	33.1		mg/kg	0.814	0.142	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.407	0.027	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Cadmium, Total	0.497	J	mg/kg	0.814	0.080	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Calcium, Total	3010		mg/kg	8.14	2.85	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Chromium, Total	24.3		mg/kg	0.814	0.078	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Cobalt, Total	7.42		mg/kg	1.63	0.135	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Copper, Total	27.5		mg/kg	0.814	0.210	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Iron, Total	12900		mg/kg	4.07	0.735	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Lead, Total	14.9		mg/kg	4.07	0.218	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Magnesium, Total	4070		mg/kg	8.14	1.25	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Manganese, Total	359		mg/kg	0.814	0.129	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.067	0.044	1	06/20/19 19:00	06/20/19 23:12	EPA 7471B	1,7471B	EA
Nickel, Total	43.8		mg/kg	2.04	0.197	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Potassium, Total	1070		mg/kg	204	11.7	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
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		mg/kg	1.63	0.256	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Vanadium, Total	28.7		mg/kg	0.814	0.165	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
Zinc, Total	37.4		mg/kg	4.07	0.239	2	06/20/19 21:06	06/24/19 17:33	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24		mg/kg	0.83	0.83	1		06/24/19 17:33	NA	107,-	



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-09
 Client ID: WP-SB-01_2-2.5
 Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:40
 Date Received: 06/14/19
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/19 17:34

Matrix: Soil
 Percent Solids: 91%

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

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Barium, Total	85.8		mg/kg	0.415	0.072	1	06/20/19 21:06	06/24/19 17:37	EPA 3050B	1,6010D	LC
Lead, Total	508		mg/kg	2.08	0.111	1	06/20/19 21:06	06/24/19 17:37	EPA 3050B	1,6010D	LC



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:

Matrix: Soil

Percent Solids: 90%

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

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Barium, Total	49.6		mg/kg	0.423	0.074	1	06/20/19 21:06	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	06/24/19 18:15	EPA 3050B	1,6010D	LC



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:

Matrix: Soil

Percent Solids: 90%

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



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04,09,11-13 Batch: WG1251112-1										
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	Analyst
Total Metals - Mansfield Lab for sample(s): 01-04 Batch: WG1251137-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/20/19 19:00	06/20/19 22:19	1,7471B	EA



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
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 1311 - Mansfield Lab for sample(s): 09 Batch: WG1251485-1									
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	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1256771-1									
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

Report Date: 08/14/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01-04,09,11-13 Batch: 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

Report Date: 08/14/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,09,11-13 Batch: WG1251112-2 SRM Lot Number: D105-540					
Zinc, Total	104	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01-04 Batch: WG1251137-2 SRM Lot Number: D105-540					
Mercury, Total	83	-	60-141	-	
TCLP Metals by EPA 1311 - Mansfield 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
Report Date: 08/14/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,09,11-13 QC Batch ID: WG1251112-3 QC Sample: L1925770-03 Client ID: MS Sample												
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		-	-		75-125	-		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		-	-		75-125	-		20
Silver, Total	ND	26.8	24.6	92		-	-		75-125	-		20
Sodium, Total	264	894	1040	87		-	-		75-125	-		20
Thallium, Total	ND	10.7	8.56	80		-	-		75-125	-		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
Report Date: 08/14/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,09,11-13 QC Batch ID: WG1251112-3 QC Sample: L1925770-03 Client ID: MS Sample									
Zinc, Total	33.1	44.7	70.1	83	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1251137-3 QC Sample: L1925072-01 Client ID: MS Sample									
Mercury, Total	ND	0.369	0.465	126	Q	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1251485-3 QC Sample: L1925877-01 Client ID: MS Sample									
Lead, TCLP	1.49	5.1	6.62	100	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1256771-3 QC Sample: 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

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total 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 Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-04,09,11-13 QC Batch ID: WG1251112-4 QC Sample: L1925770-03 Client ID: DUP 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 Associated sample(s): 01-04 QC Batch ID: WG1251137-4 QC Sample: L1925072-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 09 QC Batch ID: WG1251485-4 QC Sample: L1925877-01 Client ID: DUP Sample					
Lead, TCLP	1.49	1.58	mg/l	6	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1256771-4 QC Sample: L1925921-01 Client ID: WC-03_0-6					
Lead, TCLP	0.044J	0.035J	mg/l	NC	20



INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
Client ID: WC-03_6-12
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
Date Received: 06/14/19
Field Prep: 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 Solids - Westborough Lab				
Ignitability	NI	06/19/19 16:12	1,1030	BR



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-01
Client ID: WC-03_0-6
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:15
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	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		SU	-	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-02
Client ID: WC-03_6-12
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:05
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-03
Client ID: WC-03_12-18
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:25
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-04
Client ID: WC-03_18-26
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 12:00
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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:

Matrix: Soil

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
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

SAMPLE RESULTS

Lab ID: L1925921-06
Client ID: WC-03_7-8
Sample Location: BROOKLYN, NY

Date Collected: 06/14/19 11:45
Date Received: 06/14/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	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:

Matrix: Soil

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:

Matrix: Soil

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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	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:

Matrix: Soil

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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - 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:

Matrix: Soil

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



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1249204-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	06/16/19 17:20	06/17/19 12:17	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1249273-1										
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 - Westborough Lab for sample(s): 02 Batch: WG1250612-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/19 20:10	06/19/19 22:33	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1250621-1										
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		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1249204-2 WG1249204-3								
Cyanide, Total	78	Q	78	Q	80-120	15		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1249260-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG1249273-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1250612-2								
Sulfide, Reactive	101		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1250621-2								
Cyanide, Reactive	117		-		30-125	-		40

Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L1925921

Project Number: 170384501

Report Date: 08/14/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1249204-4 WG1249204-5 QC Sample: L1925921-01 Client ID: WC-03_0-6												
Cyanide, Total	ND	10	8.1	77		9.0	90		75-125	11		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1249273-4 QC Sample: L1925921-03 Client ID: WC-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	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,09,11-13 QC Batch ID: WG1249105-1 QC Sample: L1925281-01 Client ID: DUP Sample						
Solids, Total	86.7	84.4	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1249260-2 QC Sample: L1925770-03 Client ID: DUP Sample						
pH	8.5	8.2	SU	4		5
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch 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 Batch 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 QC Sample: L1926217-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1250621-3 QC Sample: L1926217-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08141915:24
Lab Number: L1925921
Report Date: 08/14/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925921-01A	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)
L1925921-01B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HEXCR-7196(30)
L1925921-01C	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)
L1925921-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.1	Y	Absent		PB-CI(180)
L1925921-01X9	Tumble Vessel	A	NA		3.1	Y	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	A	NA		3.1	Y	Absent		HEXCR-7196(30)
L1925921-02C	Glass 500ml/16oz unpreserved	A	NA		3.1	Y	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	A	NA		3.1	Y	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)

*Values in parentheses indicate holding time in days



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08141915:24
Lab Number: L1925921
Report Date: 08/14/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925921-04A	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)
L1925921-04B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HEXCR-7196(30)
L1925921-04C	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)
L1925921-05A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1925921-05B	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-05C	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-05D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1925921-06A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1925921-06B	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-06C	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-06D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1925921-07A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1925921-07B	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-07C	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-07D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1925921-08A	Vial MeOH preserved	A	NA		3.1	Y	Absent		NYTCL-8260HLW(14)
L1925921-08B	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-08C	Vial water preserved	A	NA		3.1	Y	Absent	15-JUN-19 14:43	NYTCL-8260HLW(14)
L1925921-08D	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1925921-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BA-TI(180),PB-TI(180)
L1925921-09B	Plastic 2oz unpreserved for TS	A	NA		3.1	Y	Absent		TS(7)
L1925921-09X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.1	Y	Absent		PB-CI(180)
L1925921-09X9	Tumble Vessel	A	NA		3.1	Y	Absent		-
L1925921-10A	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08141915:24
Lab Number: L1925921
Report Date: 08/14/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925921-10B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BA-TI(180),PB-TI(180)
L1925921-11B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BA-TI(180),PB-TI(180)
L1925921-12B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		BA-TI(180),PB-TI(180)
L1925921-13B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),TS(7)
L1925921-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-14B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-15B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-16B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-17B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-18B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-19B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-20B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-21B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-22B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-23B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-24A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:08141915:24
Lab Number: L1925921
Report Date: 08/14/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1925921-24B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-25A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-25B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-26A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-26B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-27A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-27B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-28A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-28B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-29A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-29B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-30A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-30B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-31A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-31B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-32A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-32B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L1925921-33A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		HOLD-METAL(180)
L1925921-33B	Glass 120ml/4oz unpreserved	A	NA		3.1	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report 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".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1925921
Report Date: 08/14/19

REFERENCES

- 1 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.
- 125 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.



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

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Date Rec'd in Lab

6/15/19

ALPHA Job #

L1925921

Project Information
 Project Name: 805-825 Atlantic Avenue
 Project Location: Brooklyn, NY
 Project # 170384501
 (Use Project name as Project #)
 Project Manager: Colin Anderson
 ALPHAQuote #:
 Turn-Around Time
 Standard Due Date:
 Rush (only if pre approved) # of Days:

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other
Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other (TCL+30, TAL)
 NY Unrestricted Use
 NYC Sewer Discharge

Billing Information
 Same as Client Info
 PO #
Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other:

Client Information
 Client: Langan
 Address: 300 W. 34th St 8 FLR
 Manhattan, 10001
 Phone: 212-479-5400
 Fax: 212-479-5444
 Email: c.anderson@langan.com

These samples have been previously analyzed by Alpha
 Other project specific requirements/comments:
 Please specify Metals or TAL.

ANALYSIS

TCL+30 VOCs	TCL+30 SVOCs	Pest/PCBs/Herb	TAL Metals+Hex+Tric	Total cyanide	PH	Total lead+barium	TCLP lead
	X	X	X	X	X		
	X	X	X	X	X		
	X	X	X	X	X		
	X	X	X	X	X		
X							
X							
X							
						X	X
						X	X

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do
 (Please Specify below)
 Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
23921-01	WC-03_0-6	6/14/19	1215	S	JA
-02	WC-03_6-12		1205		
-03	WC-03_12-18		1225		
-04	WC-03_18-26		1200		
-05	WC-03_2-3		0910		
-06	WC-03_7-8		1145		
-07	WC-03_15-16		1130		
-08	WC-03_25-26		0907		
-09	WP-SB_01_2.5-3		1240		
-10	WP-SB_01_3-3.5		1245		


- Preservative Code:**
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 K/E = Zn Ac/NaOH
 O = Other
- Container Code**
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other
 E = Encore
 D = BOD Bottle


Westboro: Certification No: MA935
 Mansfield: Certification No: MA015

Container Type	VOA Kit	16oz	16oz	20z	4oz	16oz	16oz	8oz	8oz
Preservative	HCl/DI	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
[Signature]	6/14/19-1510	[Signature]	6-14-19 1519
[Signature]	6/14-11 1317	[Signature]	6/14 20:20
[Signature]	6/15 00:20	[Signature]	6/15/19 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab <i>6/15/19</i>	ALPHA Job # <i>L1925921</i>						
		2 of 4								
Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3268	Project Information Project Name: <i>805-825 Atlantic Avenue</i> Project Location: <i>Brooklyn, NY</i> Project # <i>170384501</i>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other							
Client Information Client: <i>Langan</i> Address: <i>360 W. 36th St 8th Fl</i> <i>Manhattan 10002</i> Phone: <i>212-479-5400</i> Fax: <i>212-479-5444</i> Email: <i>conderson@langan.com</i>	(Use Project name as Project #) <input type="checkbox"/> Project Manager: <i>Colin Anderson</i> ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge							
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:								
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS Total lead + barium TCLP lead Total + TCLP metals		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	Total lead + barium	TCLP lead	Total + TCLP metals	Sample Specific Comments	Total Bottles
<i>25921-11</i>	<i>WP-SB-01-A-1-2</i>	<i>6/14/19</i>	<i>1250</i>	<i>S</i>	<i>JA</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>HOLD TCLP lead</i>	
<i>-12</i>	<i>WP-SB-01-B-1-2</i>		<i>1255</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>HOLD TCLP lead</i>	
<i>-13</i>	<i>WP-SB-01-C-1-2</i>		<i>1300</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>HOLD TCLP lead</i>	
<i>-14</i>	<i>SB-05-0-1</i>		<i>0950</i>					<input checked="" type="checkbox"/>	<i>HOLD All</i>	
<i>-15</i>	<i>SB-05-5-6</i>		<i>0954</i>					<input checked="" type="checkbox"/>		
<i>-16</i>	<i>SB-06-4-5</i>		<i>1140</i>					<input checked="" type="checkbox"/>		
<i>-17</i>	<i>SB-06-0-1</i>		<i>1135</i>					<input checked="" type="checkbox"/>		
<i>-18</i>	<i>SB-05-2-3</i>		<i>0910</i>					<input checked="" type="checkbox"/>		
<i>-19</i>	<i>SB-05-6-7</i>		<i>0956</i>					<input checked="" type="checkbox"/>		
<i>-20</i>	<i>SB-05-8-9</i>		<i>0958</i>					<input checked="" type="checkbox"/>		
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type <i>202 902 202 402</i>		Preservative <i>- - -</i>		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
				Relinquished By: <i>[Signature]</i> Date/Time: <i>6/14/19 15:00</i>		Received By: <i>[Signature]</i> Date/Time: <i>6-14-19 15:10</i>				
				Relinquished By: <i>[Signature]</i> Date/Time: <i>6/14/19 18:17</i>		Received By: <i>[Signature]</i> Date/Time: <i>6/14 20:20</i>				
				Relinquished By: <i>[Signature]</i> Date/Time: <i>6/15 00:20</i>		Received By: <i>[Signature]</i> Date/Time: <i>6/15/19 00:20</i>				

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #		
		3 of 4	6/15/19	L1925921		
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information	
Project Name: <u>805-825 Atlantic Avenue</u> Project Location: <u>Brooklyn, NY</u> Project # <u>17038450</u>		(Use Project name as Project #) <input type="checkbox"/>		<input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<input type="checkbox"/> Same as Client Info PO #	
Client Information		Regulatory Requirement		Disposal Site Information		
Client: <u>Langan</u> Address: <u>360 W. 31st St 5th Fl</u> <u>Manhattan, 10001</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5444</u> Email: <u>Anderson@langan.com</u>		Project Manager: <u>Colin Anderson</u> ALPHAQuote #:		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input checked="" type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration		
		Total + TCLP Metals		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
25921-21	SB-06-9-10	6/14/19	1147	S	JA	HOLD All
-22	SB-06-10-11		1150			
-23	SB-06-7-8		1145			
-24	SB-05-12-13		1010			
-25	SB-05-14-15		1012			
-26	SB-05-17-18		1015			
-27	SB-06-16-17		1220			
-28	SB-06-15-16		1130			
-29	SB-05-18-19		1018			
-30	SB-05-20-21		1020			
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
				Container Type <u>202</u> Preservative		
Relinquished By: <u>[Signature]</u> Date/Time: <u>6/14/19 10:17</u>		Received By: <u>[Signature]</u> Date/Time: <u>6-14-19 15:10</u>				
Relinquished By: <u>[Signature]</u> Date/Time: <u>6/15/19 00:20</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/15/19 00:20</u>				



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page
4 of 4

Date Rec'd
in Lab
6/15/19

ALPHA Job #
L1929921

Client Information
Client: Langan
Address: 360 W. 31st St. 8th Fl
Manhattan, 10007
Phone: 212-479-5400
Fax: 212-479-5444
Email: c.anderson@langan.com

Project Information
Project Name: 805 Atlantic Avenue
Project Location: Brooklyn, NY
Project # 170384501
(Use Project name as Project #)
Project Manager: Colin Anderson
ALPHAQuote #:
Turn-Around Time
Standard Due Date:
Rush (only if pre approved) # of Days:

Deliverables
 ASP-A ASP-B
 EQulS (1 File) EQulS (4 File)
 Other

Billing Information
 Same as Client Info
PO #

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)
Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total + TAL + Metals	PFAS							
		Date	Time											
25921-31	SB-05-21-22	6/14/19	1022	S	EA	X								
-32	SB-05-23-24	↓	1024	↓	↓	X								
-33	SB-05-25-26	↓	0907	↓	↓	X								
	FB-01-PFAS-20190614	↓	1402	AG	↓		X							
	TG-6-14-19													

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: 202, 402
Preservative:

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	6/14/19-15:10	M M VAL	6-14-19 15:10
<i>[Signature]</i>	6-14-19 15:17	<i>[Signature]</i>	6/14 20:20
<i>[Signature]</i>	6/5 00:30	<i>[Signature]</i>	6/15/19 00:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



ANALYTICAL REPORT

Lab Number:	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
Project Number: 170384501

Lab Number: L1960511
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
Project Number: 170384501

Lab Number: L1960511
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.

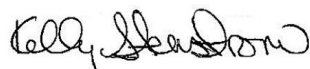
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/26/19

METALS

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:

TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil

Percent Solids: 83%

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

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	806		mg/kg	2.33	0.125	1	12/18/19 21:00	12/19/19 11:59	EPA 3050B	1,6010D	LC



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:

TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.227	J	mg/l	0.500	0.027	1	12/19/19 17:10	12/20/19 12:18	EPA 3015	1,6010D	PE
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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:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	110		mg/kg	2.28	0.122	1	12/18/19 21:00	12/19/19 12:03	EPA 3050B	1,6010D	LC



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:

TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.105	J	mg/l	0.500	0.027	1	12/19/19 17:10	12/20/19 12:31	EPA 3015	1,6010D	PE
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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:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical 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: 805-825 ATLANTIC AVENUE

Lab Number: L1960511

Project Number: 170384501

Report Date: 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-04

Date Collected: 12/17/19 10:25

Client ID: SB-114_SWW_6-7

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

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield 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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-04
 Client ID: SB-114_SWW_6-7
 Sample Location: BROOKLYN, NY

Date Collected: 12/17/19 10:25
 Date Received: 12/17/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	137		mg/kg	2.25	0.121	1	12/18/19 21:00	12/19/19 12:55	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: 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

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

Percent Solids: 84%

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

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.096	J	mg/l	0.500	0.027	1	12/19/19 17:10	12/20/19 12:39	EPA 3015	1,6010D	PE
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Project Name: 805-825 ATLANTIC AVENUE

Lab Number: 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

Date Received: 12/17/19

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	98.6		mg/kg	2.34	0.125	1	12/18/19 21:00	12/19/19 12:59	EPA 3050B	1,6010D	LC



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:

TCLP/SPLP Ext. Date: 12/18/19 17:17

Matrix: Soil

Percent Solids: 85%

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

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	309		mg/kg	2.23	0.120	1	12/18/19 21:00	12/19/19 13:03	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1960511**Project Number:** 170384501**Report Date:** 12/26/19**SAMPLE RESULTS**

Lab ID: L1960511-11

Date Collected: 12/17/19 11:15

Client ID: FB01_121719

Date Received: 12/17/19

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 - Mansfield Lab											
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/19/19 12:22	12/19/19 14:56	EPA 3005A	1,6020B	AM



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05,10 Batch: WG1322458-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	12/18/19 21:00	12/19/19 11:37	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1322801-1									
Lead, Total	ND	mg/l	0.00100	0.00034	1	12/19/19 12:22	12/19/19 14:52	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-05,10 Batch: WG1322925-1									
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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,10 Batch: WG1322458-2 SRM Lot Number: D105-540								
Lead, Total	92		-		71-128	-		
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1322801-2								
Lead, Total	82		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,10 Batch: WG1322925-2								
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	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,10 QC Batch ID: WG1322458-3 QC Sample: L1960541-02 Client ID: MS Sample												
Lead, Total	77.0	43.8	105	64	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1322801-3 QC Sample: L1960511-11 Client ID: FB01_121719												
Lead, Total	ND	0.51	0.3183	62	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,10 QC Batch ID: WG1322925-3 QC Sample: L1960430-04 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	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05,10 QC Batch ID: WG1322458-4 QC Sample: L1960541-02 Client ID: DUP Sample						
Lead, Total	77.0	71.5	mg/kg	7		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1322801-4 QC Sample: L1960511-11 Client ID: FB01_121719						
Lead, Total	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05,10 QC Batch ID: WG1322925-4 QC Sample: L1960430-04 Client ID: DUP Sample						
Lead, TCLP	ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-01
Client ID: SB-114_SWN_6-7
Sample Location: BROOKLYN, NY

Date Collected: 12/17/19 10:28
Date Received: 12/17/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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:

Matrix: Soil

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	-	12/19/19 04:40	121,2540G	PR



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

SAMPLE RESULTS

Lab ID: L1960511-03
Client ID: SB-114_SWS_6-7
Sample Location: BROOKLYN, NY

Date Collected: 12/17/19 10:26
Date Received: 12/17/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	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: L1960511-04

Date Collected: 12/17/19 10:25

Client ID: SB-114_SWW_6-7

Date Received: 12/17/19

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 - 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: L1960511-05

Date Collected: 12/17/19 10:29

Client ID: SB-114_FLOOR_8

Date Received: 12/17/19

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 - 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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.9		%	0.100	NA	1	-	12/19/19 04:40	121,2540G	PR



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	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05,10 QC Batch ID: WG1322568-1 QC Sample: L1960511-01 Client ID: SB-114_SWN_6-7						
Solids, Total	82.9	81.8	%	1		20

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L1960511**Project Number:** 170384501**Report Date:** 12/26/19**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1960511-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-01B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-01X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-02B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-02X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-03B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-03X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-04B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-04X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-05B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-05X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-06A	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		HOLD-METAL(180)
L1960511-06B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-CONTINGENCY(14)
L1960511-07A	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		HOLD-METAL(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Serial_No:12261912:54
Lab Number: L1960511
Report Date: 12/26/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1960511-07B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-CONTINGENCY(14)
L1960511-08A	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		HOLD-METAL(180)
L1960511-08B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-CONTINGENCY(14)
L1960511-09A	Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		HOLD-METAL(180)
L1960511-09B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-CONTINGENCY(14)
L1960511-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.5	Y	Absent		PB-TI(180)
L1960511-10B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		TS(7)
L1960511-10X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		PB-CI(180)
L1960511-10X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1960511-11A	Plastic 250ml HNO3 preserved	A	<2	<2	2.5	Y	Absent		PB-6020T(180)

*Values in parentheses indicate holding time in days



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. 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 AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

- 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.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)-(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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.)

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

Data Qualifiers

- 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
Project Number: 170384501

Lab Number: L1960511
Report Date: 12/26/19

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab 12/17/19

ALPHA Job # L19 60511

Client Information
Client: LANGAN
Address: 360 W 31ST ST 8TH FLOOR, NY
Phone: 212 479 5400
Fax: 212 479 5499
Email: KAELOLCO@LANGAN.COM

Project Information
Project Name: 805-875 ATLANTIC AVENUE
Project Location: BROOKLYN, NY
Project # 170384501
(Use Project name as Project #)
Project Manager: KIM DELCOL / COLIN ANDERSON
ALPHAQuote #:
Turn-Around Time: Standard Rush (only if pre approved) Due Date: 72 HOUR TA

Deliverables
 ASP-A ASP-B
 EQuIS (1 File) EQuIS (4 File)
 Other
Billing Information
 Same as Client Info
PO #

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge
Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
PLEASE CC DATA MANAGEMENT@LANGAN.COM

Please specify Metals or TAL.

ANALYSIS		Sample Filtration
TOTAL LEAD	TECP LEAD	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please Specify below)
		Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL LEAD	TECP LEAD	Total Bottles	
		Date	Time						
60511-01	SB-114-SWN-6-7	12/17/19	10:28	S	TU	X	X		
02	SB-114-SWE-6-7		10:27						
03	SB-114-SWS-6-7		10:26						
04	SB-114-SWN-6-7		10:25						
05	SB-114-FLOOR		10:29						
06	SB-114-SWN		10:33						
07	SB-114-SWE		10:32						
08	SB-114-SWS		10:31						HOLD ALL
09	SB-114-SWN		10:30						HOLD ALL

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
TOMAS MONTE	12/17/19 16:46	RECEIVED (PAL)	12/17/19 16:50
KEVIN WOODS	12/17/19 19:25	JAN PAL	12/17/19 19:30
JAN PAL	12/17/19 00:20	Manning	12/17/19 23:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers

Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2
of 2

Date Rec'd
in Lab

12/17/19

ALPHA Job #

L1960511

Project Information

Project Name: 805-825 ATLANTIC AVENUE

Project Location: BROOKLYN, NY

Project # 170 384 501

(Use Project name as Project #)

Project Manager: KIM BEL COL / COLIN AMELSON

ALPHAQuote #:

Turn-Around Time

Standard

Due Date: 72 HOURS

Rush (only if pre approved)

of Days: TA

Deliverables

- ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client Info

PO #

Client Information

Client: LANGAN

Address: 360 W 31ST ST
8TH FLOOR, NY

Phone: 212 479 5400

Fax: 212 479 5499

Email: KBELCOL@LANGAN.COM

Regulatory Requirement

- NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:

- NJ NY
 Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

PLEASE CC DATAMANAGEMENT@LANGAN.COM

Please specify Metals or TAL.

ANALYSIS

ANALYSIS	DATE	TIME	INITIALS	COMMENTS
TOTAL LEAD				
TCLP LEAD				

Sample Filtration

- Done
 Lab to do
 Lab to do

(Please Specify below)

Sample Specific Comments

T
o
t
a
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B
o
t
t
l
e

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL LEAD	TCLP LEAD	COMMENTS
		Date	Time					
60511 -10	DUP01-121719	12/17/19		S	TM	X	X	
-11	FB01-121719		11:15	AQ				RUN FOR TOTAL LEAD ONLY

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>TOMAS MONTI</u>	<u>12/17/19 16:48</u>	<u>MAA JORDAN</u>	<u>12/17/19 16:50</u>
<u>John AAL</u>	<u>12/17/19 19:25</u>	<u>John AAL</u>	<u>12/17/19 19:30</u>
<u>John AAL</u>	<u>12/18/19 00:30</u>	<u>John AAL</u>	<u>12/17/19 23:30</u>



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.
Project Number: 170384501

Lab Number: L2004751
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.
Project Number: 170384501

Lab Number: L2004751
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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 02/27/20

METALS

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:

TCLP/SPLP Ext. Date: 02/06/20 22:35

Matrix: Soil

Percent Solids: 79%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	1370		mg/kg	2.50	0.134	1	02/04/20 07:50	02/04/20 11:14	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-03
 Client ID: SB-107_9
 Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:01
 Date Received: 02/03/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 77%

TCLP/SPLP Ext. Date: 02/06/20 22:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-03
 Client ID: SB-107_9
 Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:01
 Date Received: 02/03/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3320		mg/kg	2.56	0.137	1	02/04/20 07:50	02/04/20 11:19	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-04
 Client ID: SB-107_9.5
 Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:02
 Date Received: 02/03/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/11/20 15:25

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	33.7		mg/l	0.500	0.027	1	02/12/20 18:55	02/12/20 20:34	EPA 3015	1,6010D	BV
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Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-04
 Client ID: SB-107_9.5
 Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:02
 Date Received: 02/03/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	4440		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	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03 Batch: WG1336805-1									
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	Analytical Method	Analyst
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	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1339683-1									
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(s): 04 Batch: WG1339991-1									
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.
Project Number: 170384501

Lab Number: L2004751
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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 Batch: WG1336805-2 SRM Lot Number: D105-540								
Lead, Total	88		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03 Batch: WG1338619-2								
Lead, TCLP	103		-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1339683-2 SRM Lot Number: 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.

Lab Number: L2004751

Project Number: 170384501

Report Date: 02/27/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1336805-3 QC Sample: L2004693-04 Client ID: MS Sample												
Lead, Total	9.58	40.9	37.6	68	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1338619-3 QC Sample: L2004751-02 Client ID: SB-107_6.5												
Lead, TCLP	2.22	5.1	7.48	103		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1339683-3 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 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1339991-3 QC Sample: L2004751-04 Client ID: 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	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1336805-4 QC Sample: L2004693-04 Client ID: DUP Sample						
Lead, Total	9.58	12.2	mg/kg	24	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03 QC Batch ID: WG1338619-4 QC Sample: L2004751-02 Client ID: 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: WG1339683-4 QC Sample: L2004751-04 Client ID: SB-107_9.5						
Lead, Total	4440	2950	mg/kg	40	Q	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1339991-4 QC Sample: L2004751-04 Client ID: SB-107_9.5						
Lead, TCLP	33.7	33.0	mg/l	2		20

INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVE.

Project Number: 170384501

Lab Number: L2004751

Report Date: 02/27/20

SAMPLE RESULTS

Lab ID: L2004751-02

Client ID: SB-107_6.5

Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:00

Date Received: 02/03/20

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	78.5		%	0.100	NA	1	-	02/04/20 02:12	121,2540G	YA



Project Name: 805-825 ATLANTIC AVE.**Project Number:** 170384501**Lab Number:** L2004751**Report Date:** 02/27/20**SAMPLE RESULTS**

Lab ID: L2004751-03

Client ID: SB-107_9

Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:01

Date Received: 02/03/20

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	76.9		%	0.100	NA	1	-	02/04/20 02:12	121,2540G	YA



Project Name: 805-825 ATLANTIC AVE.**Project Number:** 170384501**Lab Number:** L2004751**Report Date:** 02/27/20**SAMPLE RESULTS**

Lab ID: L2004751-04

Client ID: SB-107_9.5

Sample Location: BROOKLYN, NY

Date Collected: 02/03/20 09:02

Date Received: 02/03/20

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	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 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: L2005908-01 Client ID: DUP Sample						
Solids, Total	80.1	80.7	%	1		20

Project Name: 805-825 ATLANTIC AVE.**Lab Number:** L2004751**Project Number:** 170384501**Report Date:** 02/27/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2004751-01A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2004751-01B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-CONTINGENCY(14)
L2004751-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		PB-TI(180)
L2004751-02B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2004751-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L2004751-02X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2004751-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		PB-TI(180)
L2004751-03B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2004751-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L2004751-03X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2004751-04A	Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		PB-TI(180)
L2004751-04B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2004751-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		PB-CI(180)
L2004751-04X9	Tumble Vessel	A	NA		3.6	Y	Absent		-

Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

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 AVE.
Project Number: 170384501

Lab Number: L2004751
Report Date: 02/27/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 of 1	Date Rec'd in Lab 2/4/20	ALPHA Job # L2004751						
		Project Information Project Name: 805-825 ATLANTIC AVE Project Location: BROOKLYN, NY Project # 170384501 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #					
Client Information Client: LANGAN Address: 360 W 31 ST 8th Floor, NY Phone: 212 479 5400 Fax: 212 479 5400 Email: vsereno@langan.com		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:						
Turn-Around Time Standard <input type="checkbox"/> Due Date: 24 HR Rush (only if pre approved) <input type="checkbox"/> # of Days: TAT 12		ANALYSIS								
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: 24 HOUR TAT ON TOTAL Pb, 72 HR TAT ON TCLP, IF RUN. Please specify Metals or TAL.		TOTAL Pb TCLP Pb		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time		Sample Matrix	Sampler's Initials	TOTAL Pb	TCLP Pb			Total Bottle
04751-01	SB-107-5.S	2/3/20	8:59	S	TN	X	X			HOLD ALL
02	SB-107-6.S		9:00							HOLD TCLP
03	SB-107-9		9:01							HOLD TCLP
04	SB-107-9.S		9:02							HOLD ALL
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)		
Relinquished By:		Date/Time		Received By:		Date/Time				
TOMAS MARTI		2/3/20 14:08		NIKKI ROOPER (AAL)		2/3/20 14:08				
VIKAS (AAL)		2/3/20 19:30		J/S AAL		2/3/20 20:45				
J/S AAL		2/4/20 00:15		Wendy Morony		2/4/20 00:15				



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

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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: 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
Project Number: 170384501

Lab Number: L2004923
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
Project Number: 170384501

Lab Number: L2004923
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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 02/07/20

METALS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-01
 Client ID: SB-107A-SWN_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:00
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/05/20 05:49
 Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-01
 Client ID: SB-107A-SWN_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:00
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	649		mg/kg	2.53	0.136	1	02/05/20 21:06	02/06/20 11:30	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

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
 Percent Solids: 92%

TCLP/SPLP Ext. Date: 02/05/20 05:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

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
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	7.06		mg/kg	2.05	0.110	1	02/05/20 21:06	02/06/20 11:35	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-03
 Client ID: SB-107A-SWS_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:02
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.247	J	mg/l	0.500	0.027	1	02/06/20 10:57	02/06/20 15:09	EPA 3015	1,6010D	BV
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-03
 Client ID: SB-107A-SWS_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:02
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	95.8		mg/kg	2.11	0.113	1	02/05/20 21:06	02/06/20 11:39	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-04
 Client ID: SB-107A-SWW_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:03
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-04
 Client ID: SB-107A-SWW_2-4
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:03
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	506		mg/kg	2.18	0.117	1	02/05/20 21:06	02/06/20 11:43	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-05
 Client ID: DUP01_020420
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 00:00
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/05/20 05:49

Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.138	J	mg/l	0.500	0.027	1	02/06/20 10:57	02/06/20 15:18	EPA 3015	1,6010D	BV
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-05
 Client ID: DUP01_020420
 Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 00:00
 Date Received: 02/04/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	130		mg/kg	2.41	0.129	1	02/05/20 21:06	02/06/20 11:47	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1337596-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	02/05/20 21:06	02/06/20 09:33	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 1311 - Mansfield Lab for sample(s): 01-05 Batch: WG1337830-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/06/20 10:57	02/06/20 14:12	1,6010D	BV

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: L2004923

Report Date: 02/07/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1337596-2 SRM Lot Number: 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	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1337596-3 QC Sample: L2005025-01 Client ID: MS Sample												
Lead, Total	9.36	46.1	39.4	65	Q	-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1337830-3 QC Sample: 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	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 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 sample(s): 01-05 QC Batch ID: WG1337830-4 QC Sample: L2004915-01 Client ID: DUP Sample						
Lead, TCLP	0.198J	0.200J	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-01
Client ID: SB-107A-SWN_2-4
Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:00
Date Received: 02/04/20
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	77.8		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

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

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
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-03
Client ID: SB-107A-SWS_2-4
Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:02
Date Received: 02/04/20
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	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-04
Client ID: SB-107A-SWW_2-4
Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 07:03
Date Received: 02/04/20
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	-	02/05/20 11:41	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2004923-05
Client ID: DUP01_020420
Sample Location: BROOKLYN, NY

Date Collected: 02/04/20 00:00
Date Received: 02/04/20
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	82.2		%	0.100	NA	1	-	02/05/20 11:41	121,2540G	RI



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	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

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2004923**Project Number:** 170384501**Report Date:** 02/07/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2004923-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		PB-TI(180)
L2004923-01B	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		TS(7)
L2004923-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		PB-CI(180)
L2004923-01X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2004923-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		PB-TI(180)
L2004923-02B	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		TS(7)
L2004923-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		PB-CI(180)
L2004923-02X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2004923-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		PB-TI(180)
L2004923-03B	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		TS(7)
L2004923-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		PB-CI(180)
L2004923-03X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2004923-04A	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		PB-TI(180)
L2004923-04B	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		TS(7)
L2004923-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		PB-CI(180)
L2004923-04X9	Tumble Vessel	A	NA		4.5	Y	Absent		-
L2004923-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		PB-TI(180)
L2004923-05B	Glass 250ml/8oz unpreserved	A	NA		4.5	Y	Absent		TS(7)
L2004923-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.5	Y	Absent		PB-CI(180)
L2004923-05X9	Tumble Vessel	A	NA		4.5	Y	Absent		-

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2004923
Report 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
Project Number: 170384501

Lab Number: L2004923
Report Date: 02/07/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water

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

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

EPA 245.1 Hg.

SM2340B

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



**NEW YORK
CHAIN OF
CUSTODY**

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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

Page 1
of 1

Date Rec'd in Lab 2/4/20

ALPHA Job # L2004923

Project Information
Project Name: BOS-BES Atlantic Avenue
Project Location: BROOKLYN, NY
Project # 170384501

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information
 Same as Client Info
PO #

Client Information
Client: LANGAN
Address: 360 W 31 ST
@M FLOOR, NY
Phone: 212 499 5100
Fax: 212 499 5499
Email: KSEMON@LANGAN.COM

(Use Project name as Project #)
Project Manager: KIM SEMON / Colin Anderson
ALPHAQuote #:

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

Turn-Around Time
Standard Due Date: 72 HR
Rush (only if pre approved) # of Days: 1 AT 1A

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Total Pb	TUPE Pb																			
----------	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Sample Filtration
 Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)
Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Pb	TUPE Pb																	
		Date	Time																					
04923-01	SB-107A-SWN-2-4	2/4/20	7:00	S	TM	9	X																	
-02	SB-107A-SWE-2-4		7:01																					
-03	SB-107A-SWS-2-4		7:02																					
-04	SB-107A-SWW-2-4		7:03																					
-05	NJP01-020420																							

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Thomas Manti	2/4/20 13:06	Kim Semon	2/4/20 13:06
Kim Semon	2/4/20 18:53	Kim Semon	2/4/20 23:50
Kim Semon	2/4/20 23:50	Kim Semon	2/4/20 23:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



ANALYTICAL REPORT

Lab Number:	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
Project Number: 170384501

Lab Number: L2005231
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
Project Number: 170384501

Lab Number: L2005231
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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 02/07/20

METALS

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2005231

Project Number: 170384501

Report Date: 02/07/20

SAMPLE RESULTS

Lab ID: L2005231-01
 Client ID: SB-107A_FLOOR_13
 Sample Location: BROOKLYN, NY

Date Collected: 02/05/20 07:04
 Date Received: 02/05/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/06/20 04:30
 Matrix: Soil
 Percent Solids: 90%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	6.46		mg/kg	2.08	0.112	1	02/06/20 07:15	02/06/20 13:05	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2005231

Project Number: 170384501

Report Date: 02/07/20

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 - Mansfield Lab											
Lead, Total	ND		mg/l	0.00100	0.00034	1	02/06/20 14:29	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	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1337723-1									
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	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1337936-1									
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 for sample(s): 01 Batch: WG1338228-1									
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: 02/07/20

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1337723-2 SRM Lot Number: D105-540								
Lead, Total	93		-		71-128	-		
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1337936-2								
Lead, Total	103		-		80-120	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 Batch: WG1338228-2								
Lead, TCLP	97		-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2005231

Project Number: 170384501

Report Date: 02/07/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1337723-3 QC Sample: L2004935-06 Client ID: MS Sample												
Lead, Total	19.7	42.1	44.1	58	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1337936-3 QC Sample: L2004890-01 Client ID: MS Sample												
Lead, Total	0.00036J	0.51	0.5152	101		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1338228-3 QC Sample: L2004523-04 Client ID: MS Sample												
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: 02/07/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1337723-4 QC Sample: L2004935-06 Client ID: DUP Sample						
Lead, Total	19.7	14.7	mg/kg	29	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1337936-4 QC Sample: L2004890-01 Client ID: DUP Sample						
Lead, Total	0.00036J	0.00041J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1338228-4 QC Sample: L2004523-04 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: 02/07/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1337678-1 QC Sample: L2005314-23 Client ID: DUP Sample						
Solids, Total	83.9	82.0	%	2		20

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2005231-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.1	Y	Absent		PB-TI(180)
L2005231-01B	Glass 250ml/8oz unpreserved	A	NA		3.1	Y	Absent		TS(7)
L2005231-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.1	Y	Absent		PB-CI(180)
L2005231-01X9	Tumble Vessel	A	NA		3.1	Y	Absent		-
L2005231-02A	Plastic 250ml HNO3 preserved	A	<2	<2	3.1	Y	Absent		PB-6020T(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005231
Report Date: 02/07/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
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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, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
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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 AVENUE
Project Number: 170384501

Lab Number: L2005231
Report Date: 02/07/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>2/5/20</u>		ALPHA Job # <u>12005231</u>																																																																																																																																																
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>905-825 ATLANTIC AVENUE</u> Project Location: <u>BROOKLYN, NY</u> Project # <u>17038MS01</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																														
Client Information Client: <u>LANGAN</u> Address: <u>360 W 31 ST</u> <u>8th Floor, NY</u> Phone: <u>212 475 5400</u> Fax: <u>212 475 5499</u> Email: <u>KSEBUND@LANGAN.COM</u>		Project Manager: <u>KIM SENON / COLIN ANDERSON</u> ALPHAQuote #:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																																		
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Turn-Around Time Standard <input type="checkbox"/> Due Date: <u>72 HR</u> Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>TAT</u>		ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Total Bottles																																																																																																																																																
Other project specific requirements/comments:		Please specify Metals or TAL.		Total PO Total PO		Sample Specific Comments																																																																																																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td><u>05231-1</u></td> <td><u>SB-107A-FLOOR-13</u></td> <td><u>2/5/20</u></td> <td><u>7:04</u></td> <td><u>S</u></td> <td><u>TM</u></td> <td><u>X</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>-2</u></td> <td><u>FB01-020520</u></td> <td></td> <td><u>14:00</u></td> <td><u>AP</u></td> <td></td> <td><u>X</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials								Date	Time	<u>05231-1</u>	<u>SB-107A-FLOOR-13</u>	<u>2/5/20</u>	<u>7:04</u>	<u>S</u>	<u>TM</u>	<u>X</u>	<u>X</u>						<u>-2</u>	<u>FB01-020520</u>		<u>14:00</u>	<u>AP</u>		<u>X</u>	<u>X</u>																																																																																																														Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
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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 O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Relinquished By: <u>TOMAS MANTI</u> Date/Time: <u>2/5/20 14:45</u> <u>RETIRED</u> <u>2/5/20 17:30</u> <u>WASE</u> <u>2/5/20 2340</u>		Received By: <u>RETIRED</u> Date/Time: <u>2/5/20 14:45</u> <u>WASE</u> <u>2/5/20 2340</u>																																																																																																																																																		



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
Project Number: 170384501

Lab Number: L2005583
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
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

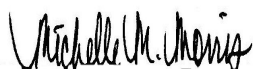
Case Narrative (continued)

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 02/10/20

METALS

Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2005583

Project Number: 170384501

Report Date: 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-01
 Client ID: WP-SB-01_SWN_1-2
 Sample Location: BROOKLYN, NY

Date Collected: 02/06/20 07:00
 Date Received: 02/06/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/07/20 16:47
 Matrix: Soil
 Percent Solids: 79%

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

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	792		mg/kg	2.49	0.134	1	02/07/20 21:02	02/10/20 12:45	EPA 3050B	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:

TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil

Percent Solids: 87%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	496		mg/kg	2.27	0.121	1	02/07/20 21:02	02/10/20 12:50	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2005583**Project Number:** 170384501**Report Date:** 02/10/20**SAMPLE RESULTS**

Lab ID: L2005583-03

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:

TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-03
 Client ID: WP-SB-01_SWS_1-2
 Sample Location: BROOKLYN, NY

Date Collected: 02/06/20 07:02
 Date Received: 02/06/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	362		mg/kg	2.39	0.128	1	02/07/20 21:02	02/10/20 12:55	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2005583

Project Number: 170384501

Report Date: 02/10/20

SAMPLE RESULTS

Lab ID: L2005583-04

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:

TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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
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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_SWWW_1-2

Date Received: 02/06/20

Sample Location: BROOKLYN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	2170		mg/kg	2.49	0.133	1	02/07/20 21:02	02/10/20 13:00	EPA 3050B	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:

TCLP/SPLP Ext. Date: 02/07/20 16:47

Matrix: Soil

Percent Solids: 82%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3520		mg/kg	2.34	0.126	1	02/07/20 21:02	02/10/20 13:05	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-05 Batch: WG1338489-1									
Lead, Total	ND	mg/kg	2.00	0.107	1	02/07/20 21:02	02/10/20 11:37	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 1311 - Mansfield Lab for sample(s): 01,03-05 Batch: WG1338737-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/08/20 17:03	02/10/20 10:58	1,6010D	LC

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 02/05/20 22:54

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02 Batch: WG1338740-1									
Lead, TCLP	ND	mg/l	0.500	0.027	1	02/08/20 17:47	02/10/20 10:23	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	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG1338489-2 SRM Lot Number: D105-540								
Lead, Total	93		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03-05 Batch: WG1338737-2								
Lead, TCLP	107		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab 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	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1338489-3 WG1338489-4 QC Sample: 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 - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1338737-3 QC Sample: L2005583-01 Client ID: WP-SB-01_SWN_1-2												
Lead, TCLP	5.98	5.1	11.0	98		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1338740-3 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 Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,03-05 QC Batch ID: WG1338737-4 QC Sample: L2005583-01 Client ID: WP-SB-01_SWN_1-2						
Lead, TCLP	5.98	5.89	mg/l	2		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1338740-4 QC Sample: L2003923-01 Client ID: DUP 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:

Matrix: Soil

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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - 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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - 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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - 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:

Matrix: Soil

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



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 Sample	Duplicate 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**Lab Number:** L2005583**Project Number:** 170384501**Report Date:** 02/10/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2005583-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		PB-TI(180)
L2005583-01B	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		TS(7)
L2005583-01W	Plastic 120ml HNO3 preserved Extracts	A	NA		4.4	Y	Absent		PB-CI(180)
L2005583-01X9	Tumble Vessel	A	NA		4.4	Y	Absent		-
L2005583-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		PB-TI(180)
L2005583-02B	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		TS(7)
L2005583-02W	Plastic 120ml HNO3 preserved Extracts	A	NA		4.4	Y	Absent		PB-CI(180)
L2005583-02X9	Tumble Vessel	A	NA		4.4	Y	Absent		-
L2005583-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.4	Y	Absent		PB-TI(180)
L2005583-03B	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		TS(7)
L2005583-03W	Plastic 120ml HNO3 preserved Extracts	A	NA		4.4	Y	Absent		PB-CI(180)
L2005583-03X9	Tumble Vessel	A	NA		4.4	Y	Absent		-
L2005583-04A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		PB-TI(180)
L2005583-04B	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		TS(7)
L2005583-04W	Plastic 120ml HNO3 preserved Extracts	A	NA		4.4	Y	Absent		PB-CI(180)
L2005583-04X9	Tumble Vessel	A	NA		4.4	Y	Absent		-
L2005583-05A	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		PB-TI(180)
L2005583-05B	Glass 250ml/8oz unpreserved	A	NA		4.4	Y	Absent		TS(7)
L2005583-05W	Plastic 120ml HNO3 preserved Extracts	A	NA		4.4	Y	Absent		PB-CI(180)
L2005583-05X9	Tumble Vessel	A	NA		4.4	Y	Absent		-

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
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.

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2005583
Report Date: 02/10/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

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

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

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab 2/7/20	ALPHA Job # L2005583	
		of			
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information
Client Information Client: LANGAN Address: 360 W 31 ST 8th Floor Phone: 212 479 5100 Fax: 212 479 5147 Email: KSENON@LANGAN.COM		Project Name: 805-825 Atlantic Avenue Project Location: BROOKLYN, NY Project # 170384501 (Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> ASP-A <input type="checkbox"/> EQUS (1 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info PO #
Project Manager: Kim Senow / Colin Arkerow ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: 72 hours Rush (only if pre approved) <input type="checkbox"/> # of Days: THU		Regulatory Requirement		Disposal Site Information	
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		<input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<input type="checkbox"/> NY Part 375 <input type="checkbox"/> NY CP-51 <input type="checkbox"/> Other Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments		Total Bottles	
ALPHA Lab ID (Lab Use Only)		Sample ID			Collection Date Time Sample Matrix Sampler's Initials
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015	
Container Type Preservative		Relinquished By: Tommaso Mori Date/Time: 2/6/20 17:00 MA935 Date/Time: 2/6/20 19:45 MA015 Date/Time: 2/7/20 00:15		Received By: MA935 Date/Time: 2/6/20 17:00 MA015 Date/Time: 2/6/20 19:45 MA015 Date/Time: 2/7/20 00:15	
Form No: 01-25 HC (rev. 30-Sept-2013)		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			



ANALYTICAL REPORT

Lab Number:	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
Project Number: 170384501

Lab Number: L2007070
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
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

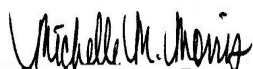
Case Narrative (continued)

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:



Michelle M. Morris

Title: Technical Director/Representative

Date: 02/20/20

METALS

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.078	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 11:30	EPA 3015	1,6010D	LC
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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%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical 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: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-02
 Client ID: SB-107_WA_8-9
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:01
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20
 Matrix: Soil
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.272	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 11:47	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	206		mg/kg	2.22	0.119	1	02/18/20 19:46	02/19/20 03:53	EPA 3050B	1,6010D	BV



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-03
 Client ID: SB-107_WB_1-2
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:02
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.115	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 11:51	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 88%

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

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.378	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 11:56	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	926		mg/kg	2.40	0.129	1	02/18/20 19:46	02/19/20 04:16	EPA 3050B	1,6010D	BV



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-05
 Client ID: SB-107_WC_1-2
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:04
 Date Received: 02/17/20
 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	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.157	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 12:51	EPA 3015	1,6010D	LC
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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%

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

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	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.118	J	mg/l	0.500	0.027	1	02/20/20 09:28	02/20/20 12:55	EPA 3015	1,6010D	LC
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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

Sample Location: BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
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: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-07
 Client ID: SB-107_EA_1-2
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:06
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	9.26		mg/kg	2.13	0.114	1	02/18/20 19:46	02/19/20 04:29	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: L2007070-08

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield 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
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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:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	15.1		mg/kg	2.29	0.123	1	02/18/20 19:46	02/19/20 04:34	EPA 3050B	1,6010D	BV



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-09
 Client ID: SB-107_EB_1-2
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:08
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth: TCLP/SPLP Ext. Date: 02/18/20 06:20
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.066	J	mg/l	0.500	0.027	1	02/20/20 09:58	02/20/20 13:08	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 92%

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



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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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 13:13	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	4.86		mg/kg	2.36	0.126	1	02/18/20 19:46	02/19/20 04:43	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: L2007070-11

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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 13:17	EPA 3015	1,6010D	LC
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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%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	7.66		mg/kg	2.12	0.114	1	02/18/20 19:46	02/19/20 04:48	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: L2007070-12

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 90%

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

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	3.70		mg/kg	2.20	0.118	1	02/18/20 19:46	02/19/20 04:52	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: L2007070-13

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Lead, TCLP	0.345	J	mg/l	0.500	0.027	1	02/20/20 09:58	02/20/20 13:26	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: L2007070-13

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:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	98.7		mg/kg	2.20	0.118	1	02/18/20 19:46	02/19/20 05:11	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: L2007070-14

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 91%

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

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	4.45		mg/kg	2.08	0.112	1	02/18/20 19:46	02/19/20 05:16	EPA 3050B	1,6010D	BV



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-15
 Client ID: WP-SB-01_F1_1-2
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:14
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.337	J	mg/l	0.500	0.027	1	02/20/20 09:58	02/20/20 13:44	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	379		mg/kg	2.21	0.118	1	02/18/20 19:46	02/19/20 05:20	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: L2007070-16

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 73%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	470		mg/kg	2.71	0.145	1	02/18/20 19:46	02/19/20 05:25	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: L2007070-17

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 90%

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

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical 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: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-18
 Client ID: WP-SB-01_FLOOR_10
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:17
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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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 13:57	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 90%

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



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-19
 Client ID: WP-SB-01_C2_10
 Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:18
 Date Received: 02/17/20
 Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 89%

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

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	71.0		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: L2007070-20

Date Collected: 02/17/20 12:00

Client ID: FB01_021720

Date Received: 02/17/20

Sample Location: BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	ND		mg/l	0.010	0.003	1	02/19/20 12:16	02/19/20 18:26	EPA 3005A	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2007070**Project Number:** 170384501**Report Date:** 02/20/20**SAMPLE RESULTS**

Lab ID: L2007070-21

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:

TCLP/SPLP Ext. Date: 02/18/20 06:20

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.206	J	mg/l	0.500	0.027	1	02/20/20 09:58	02/20/20 14:05	EPA 3015	1,6010D	LC
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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:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	79.1		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	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 20 Batch: WG1341931-1									
Lead, Total	ND	mg/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: WG1341984-1									
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	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-19,21 Batch: WG1342624-1									
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(s): 20 Batch: WG1341931-2								
Lead, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-19,21 Batch: WG1341984-2 SRM Lot Number: D105-540								
Lead, Total	98		-		71-128	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-19,21 Batch: WG1342624-2								
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	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1341931-3 QC Sample: L2007070-20 Client ID: FB01_021720												
Lead, Total	ND	0.51	0.503	99	-	-	-	-	75-125	-	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-19,21 QC Batch ID: WG1341984-3 QC Sample: L2007070-01 Client ID: SB-107_WA_1-2												
Lead, Total	42.5	48.9	83.3	83	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-19,21 QC Batch ID: WG1342624-3 QC Sample: L2007070-01 Client ID: SB-107_WA_1-2												
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	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 20 QC Batch ID: WG1341931-4 QC Sample: L2007070-20 Client ID: FB01_021720						
Lead, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-19,21 QC Batch ID: WG1341984-4 QC Sample: L2007070-01 Client ID: SB-107_WA_1-2						
Lead, Total	42.5	48.4	mg/kg	13		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-19,21 QC Batch ID: WG1342624-4 QC Sample: L2007070-01 Client ID: SB-107_WA_1-2						
Lead, TCLP	0.078J	0.065J	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-01
Client ID: SB-107_WA_1-2
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:00
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-02
Client ID: SB-107_WA_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:01
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-03
Client ID: SB-107_WB_1-2
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:02
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-04
Client ID: SB-107_WB_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:03
Date Received: 02/17/20
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	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:

Matrix: Soil

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

Sample Location: BROOKLYN, NEW YORK

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-07
Client ID: SB-107_EA_1-2
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:06
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-08
Client ID: SB-107_EA_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:07
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	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:

Matrix: Soil

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
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-11
Client ID: SB-107_FLOOR_12
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:10
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	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:

Matrix: Soil

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	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-13
Client ID: WP-SB-01_E1_1-2
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:12
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-14
Client ID: WP-SB-01_E1_3-4
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:13
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.1		%	0.100	NA	1	-	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:

Matrix: Soil

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
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-17
Client ID: WP-SB-01_SWN_10
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:16
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-18
Client ID: WP-SB-01_FLOOR_10
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:17
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	02/18/20 08:29	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

SAMPLE RESULTS

Lab ID: L2007070-19
Client ID: WP-SB-01_C2_10
Sample Location: BROOKLYN, NEW YORK

Date Collected: 02/17/20 07:18
Date Received: 02/17/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	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:

Matrix: Soil

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 sample(s): 01-19,21 QC Batch ID: WG1341729-1 QC Sample: L2007070-01 Client ID: SB-107_WA_1-2						
Solids, Total	81.7	83.1	%	2		20

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2007070**Project Number:** 170384501**Report Date:** 02/20/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2007070-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-01B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-01X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-02B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-02X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-02X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-03B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-03X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-04A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-04B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-04X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-04X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-05A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-05B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-05X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-05X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-06A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-06B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2007070**Project Number:** 170384501**Report Date:** 02/20/20**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2007070-06X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-06X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-07B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-07X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-08A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-08B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-08X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-08X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-09B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-09X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-09X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-10B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-10X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-10X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-11A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-11B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-11X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-11X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-12A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-12B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-12X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-12X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-13B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)

Project Name: 805-825 ATLANTIC AVENUE**Lab Number:** L2007070**Project Number:** 170384501**Report Date:** 02/20/20**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2007070-13X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-13X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-14A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-14B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-14X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-14X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-15B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-15X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-15X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)
L2007070-16B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-16X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-16X9	Tumble Vessel	A	NA		3.4	Y	Absent		-
L2007070-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-17B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-17X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-17X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-18B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-18X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-18X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-19A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		PB-TI(180)
L2007070-19B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2007070-19X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		PB-CI(180)
L2007070-19X9	Tumble Vessel	B	NA		3.8	Y	Absent		-
L2007070-20A	Plastic 250ml HNO3 preserved	B	<2	<2	3.8	Y	Absent		PB-TI(180)
L2007070-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.4	Y	Absent		PB-TI(180)

Project Name: 805-825 ATLANTIC AVENUE

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2007070-21B	Glass 250ml/8oz unpreserved	A	NA		3.4	Y	Absent		TS(7)
L2007070-21X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.4	Y	Absent		PB-CI(180)
L2007070-21X9	Tumble Vessel	A	NA		3.4	Y	Absent		-

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
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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, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



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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 AVENUE
Project Number: 170384501

Lab Number: L2007070
Report Date: 02/20/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

	NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1	Date Rec'd in Lab 2/17/20	ALPHA Job # L2007070
			of 3		
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information Project Name: 805-825 ATLANTIC AVENUE Project Location: BROOKLYN, NEW YORK Project # 170 384 SA1 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	
Client Information Client: LANGAN Address: 360 W 31 ST 8th Floor, NY Phone: 212 479 5400 Fax: 212 479 5499 Email: ksimon@langan.com		Project Manager: KIM SEMAN / Colin Andersen ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: 72 HR Rush (only if pre approved) <input type="checkbox"/> # of Days: TAT 12		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS	
				Total Bottle	
				Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)	
				Sample Specific Comments	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
7070-01	SB-107-WA-1-2	2/17/20	7:00	S	TM
-02	SB-107-WA-8-9		7:01		
-03	SB-107-WB-1-2		7:02		
-04	SB-107-WB-8-9		7:03		
-05	SB-107-WC-1-2		7:04		
-06	SB-107-WC-8-9		7:05		
-07	SB-107-EA-1-2		7:06		
-08	SB-107-EA-8-9		7:07		
-09	SB-107-EB-1-2		7:08		
-10	SB-107-EB-3-4	✓	7:09	✓	✓
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015	
				Container Type	
				Preservative	
				Relinquished By:	
				Date/Time	
				Received By:	
				Date/Time	
				Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2
of 3

Date Rec'd
in Lab

2/17/20

ALPHA Job #

L2007070

Project Information

Project Name: 805-825 ATLANTIC AVENUE
Project Location: BROOKLYN, NY
Project # 170 384 501

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client Info
PO #

Client Information

Client: LANEAN
Address: 360 W 31 ST
8TH FLOOR, NY
Phone: 212 479 5160
Fax: 212 479 5199
Email: ksenan@lanean.com

(Use Project name as Project #)
Project Manager: KIMSEMAN / Colin Anderson
ALPHAQuote #:

Regulatory Requirement

NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
 NJ NY
 Other.

Turn-Around Time

Standard Due Date: 72 HR
Rush (only if pre approved) # of Days: TAT

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TOTAL Pb	TCLP Pb
7070-11	2/17/20	7:10	S	TM		
-12		7:11				
-13		7:12				
-14		7:13				
-15		7:14				
-16		7:15				
-17		7:16				
-18		7:17				
-19		7:18				
-20		12:00	AQ			

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
7070-11	SB-107-FLOOR-12	2/17/20	7:10	S	TM
-12	WP-SB-01-D2-10		7:11		
-13	WP-SB-01-E1-1-2		7:12		
-14	WP-SB-01-E1-3-4		7:13		
-15	WP-SB-01-F1-1-2		7:14		
-16	WP-SB-01-SWN-1-2		7:15		
-17	WP-SB-01-SWN-10		7:16		
-18	WP-SB-01-FLOOR-10		7:17		
-19	WP-SB-01-C2-10		7:18		
-20	WP-SB-01-021720		12:00	AQ	

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle


Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type

Preservative

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Thomas Monti</u>	<u>2/17/20 15:15</u>	<u>W. P. Anderson (DAC)</u>	<u>2/17/20 15:15</u>
<u>W. P. Anderson (DAC)</u>	<u>2/17/20 17:40</u>	<u>J. B. AAL</u>	<u>2/17/20 19:30</u>
<u>J. B. AAL</u>	<u>2/17/20 23:30</u>	<u>[Signature]</u>	<u>2/17/20 23:30</u>

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 3	Date Rec'd in Lab 2/17/20	ALPHA Job # L2007070							
		of 3									
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information			Deliverables			Billing Information			
Client Information		Project Name: 805-825 ATLANTIC AVENUE			<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Same as Client Info PO #			
Client: LANGAN		Project Location: BROOKLYN, NY			Regulatory Requirement			Disposal Site Information			
Address: 360 W 31 ST 8th Floor, NY		Project # 170 384 501			<input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other			Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
Phone: 212 479 5400		(Use Project name as Project #) <input type="checkbox"/>			Turn-Around Time			Disposal Site Information			
Fax: 212 479 5404		Project Manager: KIM SENON / COLIN ANDERSON									
Email: k.senon@langan.com		ALPHAQuote #:			Standard <input type="checkbox"/>			Due Date: 72 hr			
		Rush (only if pre approved) <input type="checkbox"/>									# of Days: TAT OK
These samples have been previously analyzed by Alpha <input type="checkbox"/>					ANALYSIS			Sample Filtration			
Other project specific requirements/comments:					Total Pb Total Pb			<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
											Total Bottle
Please specify Metals or TAL.					Sample Specific Comments			Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Total Pb			Total Pb		
		Date	Time								
7070-21	DUP01-021720	2/17/20	-	S	TM	X	X				
Preservative Code:		Container Code		Westboro: Certification No: MA935		Container Type			Preservative		
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015							
				Relinquished By:		Date/Time		Received By:		Date/Time	
				TOMAS MONTE		2/17/20 15:15		MONTANO (AAL)		2/17/20 15:15	
				J Zh AAL		2/17/20 17:45		J Zh AAL		2/17/20 19:30	
				J Zh AAL		2/17/20 23:30		J Zh AAL		2/17/20 23:30	
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)											



ANALYTICAL REPORT

Lab Number:	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
Project Number: 170384501

Lab Number: L2008284
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
Project Number: 170384501

Lab Number: L2008284
Report Date: 02/28/20

Case Narrative (continued)

Report Submission

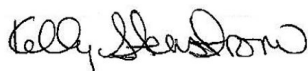
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 02/28/20

METALS

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:

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.033	J	mg/l	0.500	0.027	1	02/27/20 19:01	02/27/20 21:58	EPA 3015	1,6010D	BV
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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:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	29.1		mg/kg	2.20	0.118	1	02/27/20 17:02	02/28/20 10:31	EPA 3050B	1,6010D	LC



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:

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil

Percent Solids: 90%

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

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	4.72		mg/kg	2.19	0.117	1	02/27/20 17:02	02/28/20 10:48	EPA 3050B	1,6010D	LC



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:

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil

Percent Solids: 83%

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

TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.042	J	mg/l	0.500	0.027	1	02/27/20 19:01	02/27/20 22:11	EPA 3015	1,6010D	BV
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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%

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

TCLP/SPLP Ext. Date: 02/26/20 06:38

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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TCLP Metals by EPA 1311 - Mansfield Lab

Lead, TCLP	0.054	J	mg/l	0.500	0.027	1	02/27/20 19:01	02/27/20 22:16	EPA 3015	1,6010D	BV
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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%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	35.3		mg/kg	2.18	0.117	1	02/27/20 17:02	02/28/20 11:01	EPA 3050B	1,6010D	LC



Project Name: 805-825 ATLANTIC AVENUE

Lab Number: L2008284

Project Number: 170384501

Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-07

Date Collected: 02/25/20 14:00

Client ID: FB01_022520

Date Received: 02/25/20

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 - Mansfield Lab											
Lead, Total	ND		mg/l	0.010	0.003	1	02/27/20 15:07	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	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05-06 Batch: WG1344965-1									
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 Lab for sample(s): 07 Batch: WG1344976-1									
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 1311 - Mansfield Lab for sample(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	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05-06 Batch: WG1344965-2 SRM Lot Number: 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 - Mansfield Lab Associated sample(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 Lab Associated sample(s): 02-03,05-06 QC Batch ID: WG1344965-3 WG1344965-4 QC Sample: L2008032-01 Client ID: MS Sample												
Lead, Total	110	56.5	142	57	Q	140	52	Q	75-125	1		20
Total Metals - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1344976-3 QC Sample: L2008284-07 Client ID: FB01_022520												
Lead, Total	ND	0.51	0.513	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02-03,05-06 QC Batch ID: WG1345038-3 QC Sample: - Client ID: -												
Lead, TCLP	ND	5.1	5.22	102		-	-		75-125	-		20



Lab Duplicate Analysis

Batch Quality Control

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Lab Number: L2008284

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: WG1344976-4 QC Sample: L2008284-07 Client ID: FB01_022520						
Lead, Total	ND	ND	mg/l	NC		20

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:

Matrix: Soil

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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	02/26/20 08:42	121,2540G	RI



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2008284
Report Date: 02/28/20

SAMPLE RESULTS

Lab ID: L2008284-05
 Client ID: WP-SB-01_SWW_10
 Sample Location: BROOKLYN, NY

Date Collected: 02/25/20 11:01
 Date Received: 02/25/20
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	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:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	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 Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2008284-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-01B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-01X9	Tumble Vessel	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		PB-TI(180)
L2008284-02B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		TS(7)
L2008284-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		PB-CI(180)
L2008284-02X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2008284-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		PB-TI(180)
L2008284-03B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		TS(7)
L2008284-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		PB-CI(180)
L2008284-03X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2008284-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-04B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-04X9	Tumble Vessel	A	NA		4.9	Y	Absent		HOLD-METAL(180)
L2008284-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		PB-TI(180)
L2008284-05B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		TS(7)
L2008284-05X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		PB-CI(180)
L2008284-05X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2008284-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	Y	Absent		PB-TI(180)
L2008284-06B	Glass 250ml/8oz unpreserved	A	NA		4.9	Y	Absent		TS(7)
L2008284-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		4.9	Y	Absent		PB-CI(180)

Project Name: 805-825 ATLANTIC AVENUE

Project Number: 170384501

Serial_No:02282017:43

Lab Number: L2008284

Report Date: 02/28/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2008284-06X9	Tumble Vessel	A	NA		4.9	Y	Absent		-
L2008284-07A	Plastic 250ml HNO3 preserved	A	<2	<2	4.9	Y	Absent		PB-TI(180)

Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2008284
Report Date: 02/28/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2008284
Report Date: 02/28/20

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

Terms

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

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

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

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

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

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

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

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- 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

Report Format: DU Report with 'J' Qualifiers



Project Name: 805-825 ATLANTIC AVENUE
Project Number: 170384501

Lab Number: L2008284
Report 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
Project Number: 170384501

Lab Number: L2008284
Report Date: 02/28/20

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

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

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

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

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

Mansfield Facility

SM 2540D: TSS

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

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

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

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

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

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

Mansfield Facility:

Drinking Water

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

EPA 522.

Non-Potable Water


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

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

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <u>1</u>	Date Rec'd in Lab <u>2/25/20</u>	ALPHA Job # <u>L2008284</u>																																																																	
		of <u>1</u>																																																																			
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: 508-822-3286	Project Information		Deliverables	Billing Information																																																																
Project Name: <u>805-825 ATLANTIC AVENUE</u> Project Location: <u>BROOKLYN, NY</u>		<input type="checkbox"/> ASP-A <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (4 File)	<input checked="" type="checkbox"/> Same as Client Info PO #																																																																
Client Information Client: <u>LANGAN</u> Address: <u>360 W 31 ST 8TH FLOOR, NY</u> Phone: <u>212 479 5400</u> Fax: <u>212 479 5409</u> Email: <u>ksenon@langan.com</u>		Project # <u>170384501</u> (Use Project name as Project #) <input type="checkbox"/>		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																															
Project Manager: <u>Kim Semon / Colin Anderson</u> ALPHAQuote #:		Turn-Around Time Standard <input type="checkbox"/> Due Date: <u>72 HOUR</u> Rush (only if pre approved) <input type="checkbox"/> # of Days: <u>TAT</u>		ANALYSIS																																																																	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments:		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)																																																																	
Please specify Metals or TAL.						T O T A L B O T T L E																																																															
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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 O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)																																																													
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