PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

326-350 Rockaway Avenue Brooklyn, New York

Prepared For:

326 Rockaway Investors LLC
38 East 29th Street, 9th Floor
New York, NY 10016

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001

Michael D. Burke. PG. CHMM
Principal/Vice President

February 21, 2020
Langan Project No. 170610401

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C. (Langan) prepared this Phase II Environmental Site Investigation (ESI) report on behalf of 326 Rockaway Investors LLC for the property located at 326-350 Rockaway Avenue in the Brownsville neighborhood of Brooklyn, New York (the site). The Phase II ESI was conducted in support of due diligence to investigate the recognized environmental conditions (RECs) identified in Langan's January 2020 Phase I Environmental Site Assessment (ESA).

The Phase II ESI included completion of a geophysical survey, advancement of soil borings, installation of sub-slab and soil vapor probes, and collection and laboratory analysis of soil and sub-slab and soil vapor samples. The Phase II ESI field work was completed on January 28 and 29, 2020.

This report is organized as follows:

- Section 2.0: Describes the site background
- Section 3.0: Presents the Phase II ESI methodology
- Section 4.0: Presents the findings of the Phase II ESI
- Section 5.0: Presents conclusions based on the findings

2.0 BACKGROUND

2.1 Site Location and Description

The site is located at 326-350 Rockaway Avenue in the Brownsville neighborhood of Brooklyn, New York, and is identified on the Brooklyn Borough Tax Map as Block 3499, Lots 25, 27, 32, 36, 40, 41, 42, 43, 44, and 45. The property is situated on the northern part of the block bound by East New York Avenue to the north, Rockaway Avenue to the east, Pitkin Avenue to the south, and Chester Street to the west. The 36,879-square-foot site is improved with a commercial-use building complex comprised of five interconnected buildings with partial and full basements, two one-story storage sheds, a lot used for commercial vehicle parking and materials storage, and an employee parking area. The site is occupied by Colonial Electric Supply, an electrical products supply and service company. The surrounding area generally slopes to the south towards Jamaica Bay, and is primarily characterized by urban development comprised of commercial and residential buildings, active construction sites, public and government institutions, churches, and vacant lots. A Site Location Map is included as Figure 1.

2.2 Recognized Environmental Conditions

Langan's January 2020 Phase I ESA identified the following RECs associated with the site:

REC 1 – Historical Site Operations

Historical operations at the site included a paint supply store (1928), a hat cleaner (1934), an exterminating company (1973), and a lamp manufacturing company (1960-1965). Undocumented spills or releases of solvents, chemicals, pesticides and/or other hazardous substances associated with these historical operations may have adversely affected soil, groundwater, and/or soil vapor beneath the site.

REC 2 – Historical Use of Adjoining Properties

Historical uses of adjoining properties include an auto repair and body shop (1928 to 1951 and 1978 to 2014), a paint supply/sign painter (1928 to 1934), a fluorescent light company (1949), a motor repair shop (1963 to 1970), a drycleaner (1970 to 1976), truck repair (1970), iron works (1907), a printing shop (1934), and a trucking company (1949). Historical operations at these adjoining properties may have resulted in inadvertent releases of petroleum products, solvents, chemicals, and/or other hazardous substances that may have affected soil vapor or groundwater beneath the site.

2.3 Soil and Geology

Based on a review of the "Bedrock and Engineering Geologic Maps of Kings and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey," dated 1994, by Charles A. Baskerville, et al., the site is underlain by the Hartland Formation, which generally consists of white quartz-microline-muscovite granite, gray biotite-muscovite-quartz schist, gray sillimanite-plagioclase-muscovite schist, and greenish-black amphibolite. The depth to bedrock is greater than 300 feet below grade surface (bgs). Geological surface features (e.g., rock outcroppings) were not observed on the site.

2.4 Hydrogeology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, the presence of artificial fill, and variability in local geology and groundwater sources or sinks. Based upon the United States Geological Survey (USGS) quadrangle maps and information contained in the EDR report, groundwater is presumed to be about 36 to 40 feet bgs and is expected to flow to the south towards Jamaica Bay.

Groundwater in New York City is not used as a potable (drinking) water source. The potable water supply is provided by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

3.0 FIELD INVESTIGATION

The Phase II ESI included completion of a geophysical survey, advancement of 10 environmental soil borings, installation of 1 sub-slab vapor probe and 3 soil vapor probes, and collection of soil, sub-slab vapor and soil vapor samples for laboratory analysis. The Phase II ESI field work was completed on January 28 and 29, 2020. A sample summary is included in Table 1 and sample locations are shown on Figure 2. Photographs taken during the field investigation are included in Appendix A.

3.1 Geophysical Survey

Prior to intrusive sampling, NOVA Geophysical & Environmental, Inc. (NOVA), of Douglaston, New York, conducted a geophysical survey on January 28, 2020. NOVA used ground penetrating radar (GPR) and electromagnetic detection equipment to identify potential underground storage tanks (USTs) and locate buried utilities and anomalies across accessible portions of the site. Borings were relocated as necessary to avoid subsurface utilities. A copy of the geophysical survey report is included in Appendix B.

3.2 Soil Investigation

Ten soil borings (SB01 through SB10) were advanced by Eastern Environmental Solutions, Inc. (Eastern) of Manorville, New York, on January 28 and 29, 2020. A Langan field geologist was on-site to document field observations and collect soil samples. Interior soil borings were advanced to depths ranging from about 8 to 17 feet bgs using a Geoprobe® 420M limited-access, direct-push drill rig. Exterior borings were advanced to depths ranging from about 8 to 20 feet bgs using a Geoprobe® 7822DT track-mounted, direct-push drill rig. Soil samples were collected continuously into 3-foot or 5-foot Macro-Core® sample barrels lined with dedicated acetate sleeves.

Soil samples retrieved from borings were visually classified for soil type, grain size, texture, and moisture content. Each sample was screened for visual, olfactory, and instrumental evidence of a chemical or petroleum release. Instrumental screening for the presence of organic vapors was performed using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Ten soil samples were collected from borings SB01 through SB10 (i.e., one from each boring location) for laboratory analysis. Samples were collected from the interval exhibiting the greatest degree of impacts or from representative intervals across the historic fill when no impacts were observed.

Samples submitted for volatile organic compound (VOC) analysis were collected directly from the acetate liner into laboratory-supplied TerraCore® soil samplers. The remaining sample volume

was homogenized and placed in laboratory-supplied containers for additional analyses. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice (to attempt to maintain a temperature of about 4°C). The samples were picked up and delivered via courier service to Alpha Analytical, Inc. (Alpha) under standard chain-of-custody protocol. Alpha is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory located in Westborough, Massachusetts.

Soil samples were analyzed for NYSDEC Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 and Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) method 8260C, semivolatile organic compounds (SVOCs) by USEPA method 8270D, pesticides by USEPA method 8081B, polychlorinated biphenyls (PCBs) by USEPA method 8082A, and Target Analyte List (TAL) metals by USEPA methods 6010D and 7470A.

Following sample collection, boreholes were backfilled to grade with soil cuttings and patched with concrete. Soil boring logs are included in Appendix C, soil boring locations are shown on Figure 2, and the soil sample summary is included in Table 1.

3.3 Sub-slab and Soil Vapor Investigation

Eastern installed one sub-slab vapor probe (SVP01) and three soil vapor probe (SVP02, SVP03, and SVP04). Sample points were installed in accordance with the 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The sub-slab soil vapor probe was installed about one inch below the cellar slab using a hand drill and was comprised of 3/16-inch-diameter polyethylene tubing. Soil vapor probes and were comprised of polyethylene implants (1/2-inch diameter and 1-7/8-inch long) threaded into 3/16-inch-diameter polyethylene tubing advanced to about 5 feet bgs using a Geoprobe® 7822 direct-push drill rig. The annulus of each probe was filled with No. 2 sand followed by a hydrated bentonite seal to surface grade.

As a quality assurance/quality control (QA/QC) measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber before and after sampling to ensure that the sub-slab and soil vapor probes were properly sealed above the target sampling depth, thereby preventing infiltration of ambient air to the subsurface. Direct readings of helium of less than 10 percent prior to sampling were considered sufficient to verify a tight seal. Each sub-slab and soil vapor probe was purged using a MultiRAE multi-gas meter at rate of 0.2 liters per minute (L/min) to evacuate a minimum of three sample tubing volumes prior to sample collection. Sub-slab and soil vapor samples were collected into laboratory-supplied, batch-certified, 2.7-Liter Summa® canisters calibrated for 120 minutes of sampling. Summa® canisters were labeled and transported via courier to Alpha under standard chain-of-custody protocol for analysis of VOCs by USEPA method TO-15.

Following sample collection, sub-slab and soil vapor probes were removed and boreholes were backfilled to grade with soil cuttings that did not exhibit evidence of impacts and patched with concrete. Sub-slab and soil vapor probe construction and sampling logs are included in Appendix D, sub-slab and soil vapor probe locations are shown on Figure 2, and a sub-slab and soil vapor sample summary is included in Table 1.

4.0 OBSERVATIONS AND RESULTS

4.1 Geophysical Survey

NOVA's geophysical survey identified multiple anomalies, including subsurface utilities (such as sewer, water, electric, gas, and telecom). A subsurface anomaly indicative of a UST was identified in the cellar of the building located on Lot 40. A fill port, vent pipe, and remote fill line were observed in the vicinity of the building. A copy of the geophysical survey report is included in Appendix B.

4.2 Subsurface Observations

Historic fill generally consisting of dark brown to gray, fine-grained sand with varying amounts of silt, gravel, coal, concrete, wood, glass, and brick was identified from surface grade to about 9 feet bgs in exterior borings and about 4.5 feet below cellar grade in interior borings. Native soil consisting of brown, fine- to medium-grained sand with varying amounts of silt and fine gravel, was identified beneath historic fill material to borehole termination, with the exception of SB06, where refusal was encountered in historic fill material. A petroleum-like odor and maximum PID reading of 4.8 parts per million (ppm) were identified in soil boring SB02 from 7 to 8 feet bgs. Visual, olfactory, and instrumental evidence of petroleum impacts were not apparent in the remainder of the borings. Groundwater was not encountered in any boring location.

4.3 Soil Sample Results

Soil sample analytical results were compared to the NYCRR Part 375 Unrestricted Use (UU) and Restricted Use Restricted-Residential (RRU) Soil Cleanup Objectives (SCOs). Soil sample analytical results are summarized in Table 2, and analytical laboratory reports are included in Appendix E. Ranges of compounds detected at concentrations above the UU and RRU SCOs are listed below. Results that exceed the RRU SCOs are presented in bold font.

The following VOC was detected at a concentration above the UU SCO:

- Acetone - 0.052 milligrams per kilogram (mg/kg) (SB05) to 0.056 mg/kg (SB08)

The following SVOCs were detected at concentrations above the UU and/or RRU SCOs:

- Benzo(a)anthracene - **1.7 mg/kg (SB05)** to **260 mg/kg (SB06)**
- Benzo(a)pyrene - **1.7 mg/kg (SB05)** to **250 mg/kg (SB06)**
- Benzo(b)fluoranthene - **2.4 mg/kg (SB05)** to **320 mg/kg (SB06)**
- Benzo(g,h,i)perylene - **150 mg/kg (SB06)**
- Benzo(k)fluoranthene - 1.6 mg/kg (SB10) to **100 mg/kg (SB06)**

- Chrysene - 1.6 mg/kg (SB05) to **250 mg/kg (SB06)**
- Dibenz(a,h)anthracene - **0.69 mg/kg (SB10)** to **42 mg/kg (SB06)**
- Dibenzofuran - 16 mg/kg (SB06)
- Fluoranthene - **570 mg/kg (SB06)**
- Fluorene - 31 mg/kg (SB06)
- Indeno(1,2,3-c,d)pyrene - **1.3 mg/kg (SB05)** to **160 mg/kg (SB06)**
- Phenanthrene - **370 mg/kg (SB06)**
- Pyrene - **460 mg/kg (SB06)**

The following pesticides were detected at concentrations above the UU and/or RRU SCOs:

- 4,4'-DDD - 0.299 mg/kg (SB06)
- 4,4'-DDE - 0.902 mg/kg (SB06)
- 4,4'-DDT - 0.011 mg/kg (SB08) to **8.87 mg/kg (SB06)**
- Alpha Chlordane - 0.707 mg/kg (SB06)
- Dieldrin - **0.367 mg/kg (SB06)**
- Heptachlor - 0.051 mg/kg (SB08)

PCBs were detected at concentrations above the UU SCOs:

- Total PCBs - 0.243 mg/kg (SB06)

The following metals were detected at concentrations above the UU and/or RRU SCOs:

- Arsenic - 15 mg/kg (SB06) to **19.2 mg/kg (SB08)**
- Barium - **611 mg/kg (SB02)** to **4,300 mg/kg (SB08)**
- Cadmium - 2.64 mg/kg (SB02) to **8.05 mg/kg (SB08)**
- Copper - 90.7 mg/kg (SB06) to **1,350 mg/kg (SB08)**
- Lead - 73.8 mg/kg (SB09) to **1,380 mg/kg (SB06)**
- Manganese - 1,740 mg/kg (SB08)
- Mercury - 0.289 mg/kg (SB10) to **0.823 mg/kg (SB02)**
- Nickel - 72.8 mg/kg (SB08)
- Zinc – 196 mg/kg (SB05) to 5,410 mg/kg (SB08)

4.4 Sub-slab and Soil Vapor Sample Results

No standard exists for soil vapor samples in New York State. The sub-slab and soil vapor sample results were compared to the decision matrices provided in the October 2006 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017). NYSDOH decision matrices evaluate eight VOCs

(trichloroethylene [TCE], tetrachlorethylene [PCE], 1,1,1-trichlorethane, 1,1-dichloroethene, cis-1,2-dichloroethene, carbon tetrachloride, methylene chloride, and vinyl chloride) using three matrices that evaluate the relationship between soil vapor and indoor air concentrations and provide recommendations for actions such as monitoring or mitigation. PCE was detected in the sub-slab vapor sample (SVP01) and two soil vapor samples (SVP02 and SVP04) and TCE was also detected in the sub-slab vapor sample (SVP01). When concentrations of these constituents are applied to the NYSDOH decision matrices, the recommendation action indicates 'no further action.' The remaining six VOCs that can be evaluated using the NYSDOH matrices were not detected in sub-slab or soil vapor.

Sub-slab and soil vapor sample analytical results are summarized in Table 3, and analytical laboratory reports are included in Appendix E.

5.0 CONCLUSIONS

The following is a summary of Phase II findings:

- The geophysical survey identified a subsurface anomaly indicative of a UST in the cellar of Lot 40.

- Historic fill, generally consisting of dark brown to gray, fine-grained sand with varying amounts of silt, gravel, coal, concrete, wood, glass, and brick, was identified from surface grade to about 9 feet bgs in exterior borings and 4.5 feet below cellar grade in interior borings. Native soil consisting of brown, fine- to medium-grained sand with varying amounts of silt and fine gravel was identified beneath the fill layer to boring termination depth of about 20 feet with the exception of SB06, where refusal was encountered in the historic fill layer.

- Staining, petroleum-like odors, and PID readings above background concentrations were identified in soil boring, SB02 from 7 to 8 feet bgs. PID readings above background were between about 3.6 ppm and 4.8 ppm. A source of petroleum-like impacts was not identified.

- SVOCs, pesticides and metals were detected in historic fill at concentrations exceeding the UU SCOs and RRU SCOs. Concentrations of these constituents above RRU SCOs are likely associated with historical operations, including an exterminating company and lamp manufacturing.

- PCE was detected in three vapor samples (SV01, SV02 and SV04) at a concentrations of 36 µg/m^3, 1.93 µg/m^3 and 3.62 µg/m^3, respectively, and TCE was detected in one vapor sample (SV01) at a concentration of 5.13 µg/m^3. These concentrations of PCE and TCE in sub-slab and soil vapor warrant 'no further action' in future development.

6.0 RECOMMENDATIONS

Based on the findings described above, the following conclusions are made:

- The geophysical survey identified a subsurface anomaly indicative of a UST in the cellar of Lot 40. The suspect UST should be emptied, decommissioned, removed and properly closed with the New York State Department of Environmental Conservation (NYSDEC) prior to new building construction.
- Prior to developing the site as a multi-family affordable housing complex, enrollment in the New York State Brownfield Cleanup Program is recommended so that pesticide, PAH and metals-impacted soil can be addressed during development under the oversight of the NYSDEC.

7.0 LIMITATIONS

This report was prepared expressly for 326 Rockaway Investors LLC for the property located at 326-350 Rockaway Avenue in Brooklyn, New York, and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions, opinions, and recommendations provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Recommendations provided are contingent upon one another and no recommendation should be relied upon or considered effective independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions, and recommendations.

TABLES

Table 1
Phase II Environmental Site Investigation
Sample Summary

326-350 Rockaway Avenue
Brooklyn, New York
Langan Project No.: 170610401

No.	Sample Location	Sample ID	Date Sampled	Sample Collection Depth (feet bgs)	Sampling Rationale	Sample Analyses
SOIL SAMPLES						
1	SB01	SB01_15-17	1/29/2020	15 to 17	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
3	SB02	SB02_7-8	1/28/2020	7 to 8	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
4	SB03	SB03_0-1	1/28/2020	0 to 1	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
5	SB04	SB04_4-5	1/28/2020	4 to 5	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
6	SB05	SB05_8-9	1/28/2020	8 to 9	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
7	SB06	SB06_4-6	1/29/2020	4 to 6	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
9	SB07	SB07_15-17	1/29/2020	15 to 17	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
11	SB08	SB08_7.5-8.5	1/28/2020	7.5 to 8.5	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
12	SB09	SB09_1.5-2.5	1/28/2020	1.5 to 2.5	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
13	SB10	SB10_2-3	1/28/2020	2 to 3	Historic Fill	Part 375/TCL VOCs, SVOCs, Peticides, PCBs, and TAL Metals
VAPOR SAMPLES						
1	SVP01	SVP01_012920	1/29/2020	Sub-slab	Sub-slab Vapor	VOCs via USEPA Method TO-15
2	SVP02	SVP02_012920	1/29/2020	5	Soil vapor (5 feet bgs)	
3	SVP03	SVP03_012920	1/29/2020	5	Soil vapor (5 feet bgs)	
4	SVP04	SVP04_012920	1/29/2020	5	Soil vapor (5 feet bgs)	

Notes:

1. Part 375 = New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (NYCRR) Part 375
2. TCL = Target Compound List
3. TAL = Target Analyte List
4. TO-15 = United States Environmental Protection Agency (USEPA) Method TO-15
5. VOC = Volatile Organic Compound
6. SVOC = Semivolatile Organic Compound
7. PCB = Polychlorinated Biphenyl
6. USEPA = United States Environmental Protection Agency
7. bgs = below grade surface

Table 2
Phase II Environmental Site Investigation
Soil Sample Analytical Results Summary

326-350 Rockaway Avenue
Brooklyn, New York
Langan Project No.: 170610401

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB01 SB01_15-17 L2004186-02 1/29/2020 15-17		SB02 SB02_7-8 L2003963-01 1/28/2020 7-8		SB03 SB03_0-1 L2003963-02 1/28/2020 0-1		SB04 SB04_4-5 L2003963-03 1/28/2020 4-5		SB05 SB05_8-9 L2003963-04 1/28/2020 8-9		SB06 SB06_4-6 L2004186-04 1/29/2020 4-6		SB07 SB07_15-17 L2004186-06 1/29/2020 15-17		SB08 SB08_7.5-8.5 L2003963-05 1/28/2020 7.5-8.5		SB09 SB09_1.5-2.5 L2003963-06 1/28/2020 1.5-2.5		SB10 SB10_2-3 L2003963-07 1/28/2020 2-3	
Volatile Organic Compounds (mg/kg)																						
1,2,4,5-Tetramethylbenzene	~	~	0.0022	U	0.18		0.0025		0.0022	U	0.0037	U	0.0061	U	0.0018	U	0.0064	U	0.0028	U	0.0024	U
1,2,4-Trimethylbenzene	3.6	52	0.0022	U	0.26		0.01		0.0022	U	0.0011	J	0.0061	U	0.0018	U	0.0064	U	0.0028	U	0.0024	U
1,3,5-Trimethylbenzene (Mesitylene)	8.4	52	0.0022	U	0.073	J	0.0098		0.0022	U	0.00061	J	0.0061	U	0.0018	U	0.0064	U	0.0028	U	0.0024	U
1,4-Diethyl Benzene	~	~	0.0022	U	0.45		0.0023	U	0.0022	U	0.00024	J	0.0061	U	0.0018	U	0.0064	U	0.0028	U	0.0024	U
4-Ethyltoluene	~	~	0.0022	U	0.11	J	0.003		0.0022	U	0.0037	U	0.0061	U	0.0018	U	0.0064	U	0.0028	U	0.0024	U
Acetone	0.05	100	0.011	U	*0.86*	U	0.0056	J	0.011	U	**0.052**		0.03	U	0.0091	U	**0.056**		0.014	U	0.016	
Benzene	0.06	4.8	0.00056	U	0.043	U	0.00058	U	0.00055	U	0.00092	U	0.00071	J	0.00045	U	0.0016	U	0.0007	U	0.00061	U
Chloroform	0.37	49	0.0017	U	0.13	U	0.0017	U	0.0016	U	0.0028	U	0.0025	J	0.0014	U	0.0048	U	0.0021	U	0.0018	U
Cymene	~	~	0.0011	U	0.05	J	0.00039	J	0.0011	U	0.0018	U	0.003	U	0.00091	U	0.0032	U	0.0014	U	0.0012	U
Ethylbenzene	1	41	0.0011	U	0.012	J	0.0012	U	0.0011	U	0.0011	J	0.003	U	0.00091	U	0.0021	J	0.0014	U	0.0012	U
Isopropylbenzene (Cumene)	~	~	0.0011	U	0.086	U	0.00015	J	0.0011	U	0.0002	J	0.003	U	0.00091	U	0.0032	U	0.0014	U	0.0012	U
M,P-Xylene	~	~	0.0022	U	0.048	J	0.0023	U	0.0022	U	0.0048		0.0061	U	0.0018	U	0.0078		0.0028	U	0.0024	U
Methyl Ethyl Ketone (2-Butanone)	0.12	100	0.011	U	*0.86*	U	0.012	U	0.011	U	0.0041	J	0.03	U	0.0091	U	0.032	U	0.014	U	0.012	U
Naphthalene	12	100	0.0045	U	0.46		0.017		0.0044	U	0.053		0.012	U	0.0036	U	0.0097	J	0.0068		0.0028	J
n-Butylbenzene	12	100	0.0011	U	0.081	J	0.0012	U	0.0011	U	0.0018	U	0.003	U	0.00091	U	0.0032	U	0.0014	U	0.0012	U
n-Propylbenzene	3.9	100	0.0011	U	0.022	J	0.0012	U	0.0011	U	0.0018	U	0.003	U	0.00091	U	0.0032	U	0.0014	U	0.0012	U
o-Xylene (1,2-Dimethylbenzene)	~	~	0.0011	U	0.086	U	0.00076	J	0.0011	U	0.0016	J	0.003	U	0.00091	U	0.0032		0.0014	U	0.0012	U
Sec-Butylbenzene	11	100	0.0011	U	0.027	J	0.00035	J	0.0011	U	0.0018	U	0.003	U	0.00091	U	0.0032	U	0.0014	U	0.0012	U
Tetrachloroethene (PCE)	1.3	19	0.00056	U	0.043	U	0.00058	U	0.00055	U	0.00092	U	0.0046		0.00045	U	0.0032		0.00045	J	0.00061	U
Toluene	0.7	100	0.0011	U	0.086	U	0.0012	U	0.0011	U	0.0018	U	0.0017	J	0.00091	U	0.0058		0.0014	U	0.0012	U
Total 1,2-Dichloroethene (Cis and Trans)	~	~	0.0011	U	0.086	U	0.0003	J	0.00031	J	0.00053	J	0.003	U	0.00091	U	0.0012	J	0.00037	J	0.00027	J
Total Xylenes	0.26	100	0.0011	U	0.048	J	0.00076	J	0.0011	U	0.0064	J	0.003	U	0.00091	U	0.011		0.0014	U	0.0012	U
Trans-1,2-Dichloroethene	0.19	100	0.0017	U	0.13	U	0.0003	J	0.00031	J	0.00053	J	0.0046	U	0.0014	U	0.0012	J	0.00037	J	0.00027	J
Semivolatile Organic Compounds (mg/kg)																						
2-Methylnaphthalene	~	~	0.2	U	0.22	J	0.71	J	0.22	U	0.042	J	5	J	0.21	U	4.8	U	0.23	U	0.15	J
Acenaphthene	20	100	0.14	U	0.15	U	2.3		0.15	U	0.1	J	20		0.14	U	3.2	U	0.15	U	0.58	J
Acenaphthylene	100	100	0.14	U	0.15	U	0.95	J	0.15	U	0.34		34		0.14	U	3.2	U	0.15	U	0.57	J
Anthracene	100	100	0.1	U	0.11	U	5.8		0.11	U	0.46		100		0.1	U	2.4	U	0.11	U	1.9	
Benzo(a)Anthracene	1	1	0.1	U	0.049	J	**12**		0.11	U	**1.7**		**260**		0.1	U	*2.4*	U	0.11	U	**4.8**	
Benzo(a)Pyrene	1	1	0.14	U	0.15	U	**12**		0.15	U	**1.7**		**250**		0.14	U	*3.2*	U	0.15	U	**4.4**	
Benzo(b)Fluoranthene	1	1	0.1	U	0.062	J	**15**		0.11	U	**2.4**		**320**		0.1	U	*2.4*	U	0.11	U	**6**	
Benzo(g,h,i)Perylene	100	100	0.14	U	0.039	J	6.7		0.15	U	1.2		**150**		0.14	U	3.2	U	0.15	U	2.8	
Benzo(k)Fluoranthene	0.8	3.9	0.1	U	0.11	U	**4.2**		0.11	U	0.6		**100**		0.1	U	*2.4*	U	0.11	U	**1.6**	
Bis(2-Ethylhexyl) Phthalate	~	~	0.17	U	0.1	J	2	U	0.18	U	0.19	U	150		0.17	U	170		0.19	U	0.93	U
Carbazole	~	~	0.17	U	0.19	U	3.2		0.18	U	0.26		30		0.17	U	4	U	0.19	U	0.95	
Chrysene	1	3.9	0.1	U	0.075	J	**12**		0.11	U	**1.6**		**250**		0.1	U	*2.4*	U	0.11	U	**4.2**	
Dibenz(a,h)Anthracene	0.33	0.33	0.1	U	0.11	U	**1.6**		0.11	U	0.26		**42**		0.1	U	*2.4*	U	0.11	U	**0.69**	
Dibenzofuran	7	59	0.17	U	0.19	U	1.6	J	0.18	U	0.087	J	**16**	J	0.17	U	4	U	0.19	U	0.37	J
Di-N-Butyl Phthalate	~	~	0.17	U	0.19	U	2	U	0.18	U	0.19	U	23	U	0.17	U	1	J	0.19	U	0.93	U
Fluoranthene	100	100	0.1	U	0.085	J	30		0.11	U	3.3		**570**		0.1	U	2.4	U	0.11	U	9.8	
Fluorene	30	100	0.17	U	0.19	U	2.3		0.18	U	0.15	J	**31**		0.17	U	4	U	0.19	U	0.69	J
Indeno(1,2,3-c,d)Pyrene	0.5	0.5	0.14	U	0.037	J	**7.2**		0.15	U	**1.3**		**160**		0.14	U	*3.2*	U	0.15	U	**3**	
Naphthalene	12	100	0.17	U	0.16	J	1.4	J	0.18	U	0.091	J	8.7	J	0.17	U	4	U	0.19	U	0.26	J
Phenanthrene	100	100	0.1	U	0.096	J	28		0.11	U	2		**370**		0.1	U	2.4	U	0.11	U	6.9	
Pyrene	100	100	0.1	U	0.08	J	26		0.11	U	2.9		**460**		0.1	U	2.4	U	0.11	U	7.9	

Notes provided on Page 2.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 2
Phase II Environmental Site Investigation
Soil Sample Analytical Results Summary

326-350 Rockaway Avenue
Brooklyn, New York
Langan Project No.: 170610401

Location Sample ID Laboratory ID Sample Date Sample Depth (feet bgs)	NYSDEC Part 375 Unrestricted Use SCOs	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	SB01 SB01_15-17 L2004186-02 1/29/2020 15-17	SB02 SB02_7-8 L2003963-01 1/28/2020 7-8	SB03 SB03_0-1 L2003963-02 1/28/2020 0-1	SB04 SB04_4-5 L2003963-03 1/28/2020 4-5	SB05 SB05_8-9 L2003963-04 1/28/2020 8-9	SB06 SB06_4-6 L2004186-04 1/29/2020 4-6	SB07 SB07_15-17 L2004186-06 1/29/2020 15-17	SB08 SB08_7.5-8.5 L2003963-05 1/28/2020 7.5-8.5	SB09 SB09_1.5-2.5 L2003963-06 1/28/2020 1.5-2.5	SB10 SB10_2-3 L2003963-07 1/28/2020 2-3
Pesticides (mg/kg)												
4,4'-DDD	0.0033	13	0.00159 U	0.00184 U	0.0019 U	0.00176 U	0.00176 U	**0.299**	0.00165 U	0.00172 J	0.00174 U	0.00188
4,4'-DDE	0.0033	8.9	0.00159 U	0.00184 U	0.0019 U	0.000524 J	0.000634 J	**0.902**	0.00165 U	0.00271 J	0.00174 U	0.00291 P
4,4'-DDT	0.0033	7.9	0.00298 U	*0.00346* U	*0.00357* U	*0.00331* U	0.00329 U	**8.87**	0.00309 U	**0.011**	0.00326 U	**0.0228**
Alpha Chlordane	0.094	4.2	0.00199 U	0.0023 U	0.00238 U	0.00221 U	0.0022 U	**0.707** IP	0.00206 U	0.00484 U	0.00218 U	0.0118
Beta Endosulfan	2.4	24	0.00159 U	0.00184 U	0.0019 U	0.00176 U	0.00176 U	0.0362 IP	0.00165 U	0.00387 U	0.00174 U	0.00176 U
Chlordane (alpha and gamma)	~	~	0.0133 U	0.0154 U	0.0159 U	0.0147 U	0.0146 U	6.6	0.0137 U	0.0322 U	0.0145 U	0.0147 U
Dieldrin	0.005	0.2	0.000994 U	0.00115 U	0.00119 U	0.0011 U	0.0011 U	**0.367**	0.00103 U	0.00242 U	0.00109 U	0.00389
Gamma Chlordane	~	~	0.00199 U	0.0023 U	0.00238 U	0.00221 U	0.0022 U	0.821	0.00206 U	0.00204 JIP	0.00218 U	0.00883 IP
Heptachlor	0.042	2.1	0.000796 U	0.000922 U	0.000952 U	0.000882 U	0.000878 U	**0.051**	0.000824 U	0.00193 U	0.00087 U	0.000882 U
Polychlorinated Biphenyls (mg/kg)												
PCB-1254 (Aroclor 1254)	~	~	0.0339 U	0.0387 U	0.0396 U	0.0354 U	0.0374 U	0.044 U	0.0332 U	0.0224 J	0.0369 U	0.0374 U
PCB-1260 (Aroclor 1260)	~	~	0.0339 U	0.0387 U	0.0396 U	0.0354 U	0.0374 U	0.191	0.0332 U	0.0808 U	0.0369 U	0.0198 J
PCB-1268 (Aroclor 1268)	~	~	0.0339 U	0.0387 U	0.00598 J	0.0354 U	0.0374 U	0.0518	0.0332 U	0.0808 U	0.0369 U	0.0118 J
Total PCBs	0.1	1	0.0339 U	0.0387 U	0.00598 J	0.0354 U	0.0374 U	**0.243**	0.0332 U	0.0224 J	0.0369 U	0.0316 J
Inorganics (mg/kg)												
Aluminum	~	~	5,160	5,820	7,440	5,000	4,970	4,410	4,270	1,680	2,080	5,990
Antimony	~	~	0.365 J	6	4.78 U	4.2 U	1.31 J	33.2	3.99 U	179	4.4 U	0.579 J
Arsenic	13	16	2.77	10.2	5.49	4.54	6.41	**15**	2.67	**19.2**	6.03	5.2
Barium	350	400	27.8	**611**	167	42	96.5	**615**	21.3	**4,300**	33.5	341
Beryllium	7.2	72	0.476	0.216 J	0.201 J	0.218 J	0.206 J	0.116 J	0.271 J	0.968 U	0.44 U	0.329 J
Cadmium	2.5	4.3	0.937	**2.64**	0.516 J	0.176 J	0.825 J	**5.75**	0.519 J	**8.05**	0.123 J	0.881 J
Calcium	~	~	750	47,300	33,900	15,800	36,800	95,200	424	30,900	177,000	10,100
Chromium, Total	~	~	16.8	47.8	12.8	3.83	10.6	28.8	12.2	62.2	3.06	11.6
Cobalt	~	~	6.67	5.42	5.12	1.61 J	3.71	7.51	4.48	35.1	1.11 J	3.55
Copper	50	270	16.8	**97**	19.1	4.24	23.6	**90.7**	12.6	**1,350**	7.64	30.6
Iron	~	~	29,800	45,100	12,300	5,190	19,700	20,000	17,100	216,000	2,900	11,400
Lead	63	400	5.22	**197**	**110**	6.54	**85.8**	**1,380**	8.93	**186**	**73.8**	**248**
Magnesium	~	~	2,080	2,850	1,860	4,760	1,560	3,640	1,780	2,030	4,270	1,420
Manganese	1,600	2,000	381	277	214	291	224	253	245	**1,740**	88.6	225
Mercury	0.18	0.81	0.085 U	**0.823**	0.077 U	0.07 U	0.072 U	**0.464**	0.075 U	0.153 U	0.072 U	**0.289**
Nickel	30	310	11.6	26.8	9.3	2.92	6.31	13	8.53	**72.8**	2 J	7.54
Potassium	~	~	874	665	762	505	418	406	903	833	228	389
Selenium	3.9	180	0.238 J	0.704 J	0.287 J	0.479 J	0.679 J	1.28 J	0.343 J	2.94 J	0.476 J	0.303 J
Sodium	~	~	107 J	251	123 J	480	194	318	83.5 J	1,040	153 J	115 J
Vanadium	~	~	30.6	15.5	18.6	9.4	21.6	28.1	25.5	10.2	5.08	14.5
Zinc	109	10,000	27.7	**1,100**	**250**	5.07	**196**	**4,630**	37.7	**5,410**	54.8	**245**
General Chemistry (%)												
Total Solids	~	~	95.4	85.6	80.9	89.7	87.5	71.4	95.6	41.1	87.1	88.1

Notes provided on Page 2.
Concentrations above Unrestricted Use SCOs are bolded.
Concentrations above Restricted Use Restricted-Residential SCOs are shaded.

Table 3
Phase II Environmental Site Investigation
Sub-slab and Soil Vapor Sample Analytical Results Summary

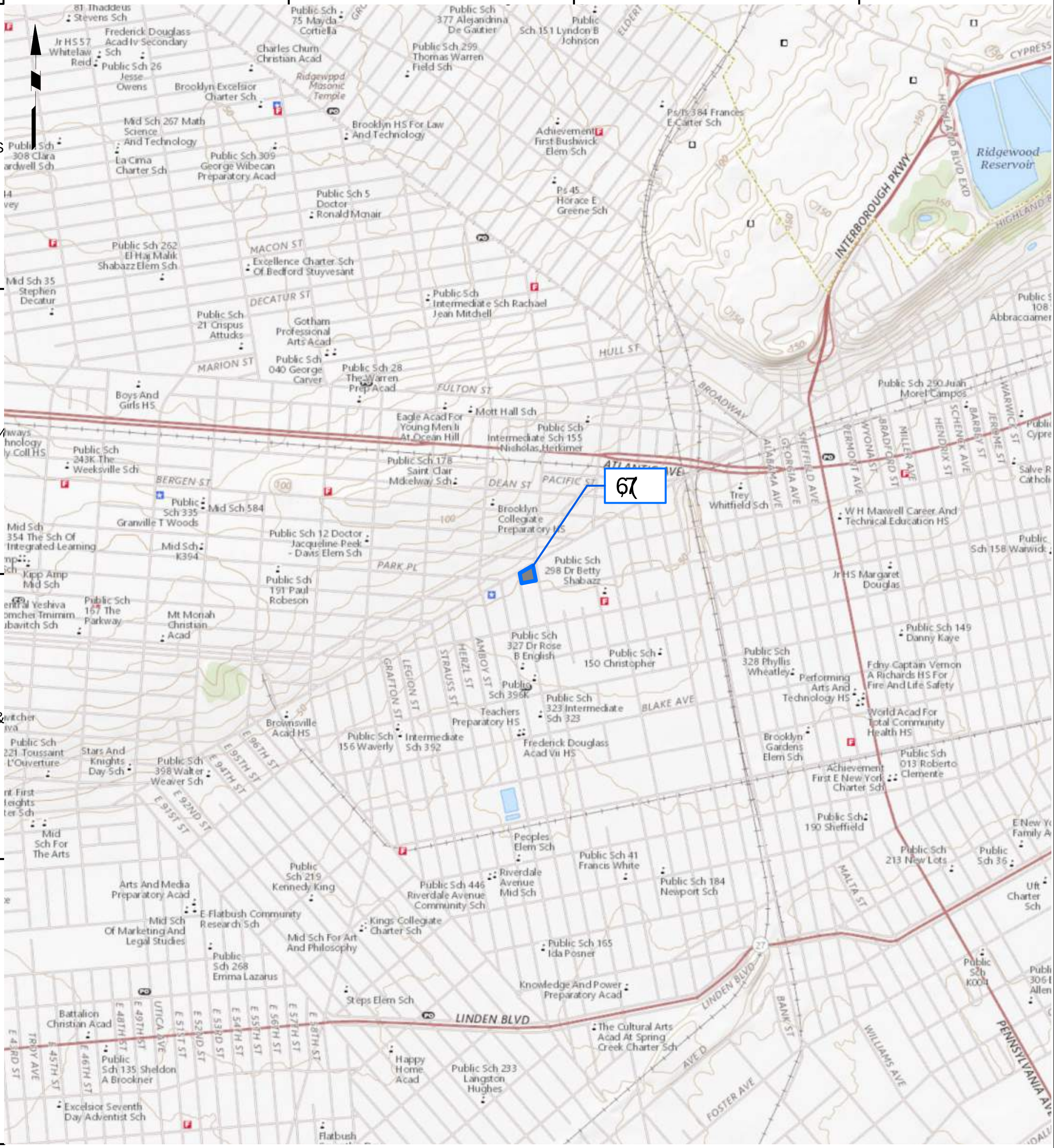
326-350 Rockaway Avenue
Brooklyn, New York
Langan Project No.: 170610401

Location Sample ID Laboratory ID Sample Date Sample Type	NYSDOH Decision Matrices Minimum Concentrations	SVP01 SVP01_012920 L2004216-01 1/29/2020 SV		SVP02 SVP02_012920 L2004216-02 1/29/2020 SV		SVP03 SVP03_012920 L2004216-03 1/29/2020 SV		SVP04 SVP04_012920 L2004216-04 1/29/2020 SV	
Volatile Organic Compounds (µg/m³)									
1,2,4-Trimethylbenzene	~	97.3		11.9		8.85		6.98	
1,3,5-Trimethylbenzene (Mesitylene)	~	25.3		3.09		2.77		1.8	
1,3-Butadiene	~	0.502		0.442	U	0.442	U	0.442	U
2,2,4-Trimethylpentane	~	6.26		0.934	U	0.934	U	0.934	U
2-Hexanone	~	0.82	U	7.09		0.865		4.34	
4-Ethyltoluene	~	21.2		3.91		3		2.26	
Acetone	~	12		385		24.5		271	
Benzene	~	12.8		2.38		1.29		1.24	
Carbon Disulfide	~	0.623	U	2.67		0.685		0.623	U
Chloroform	~	4.29		0.977	U	0.977	U	1.73	
Cyclohexane	~	5.92		0.73		0.716		0.795	
Dichlorodifluoromethane	~	28.9		2.37		1.8		3.44	
Ethylbenzene	~	47.8		12.1		9.38		7.34	
M,P-Xylene	~	182		48.6		38.1		30.9	
Methyl Ethyl Ketone (2-Butanone)	~	5.4		20.5		2.68		14.6	
n-Heptane	~	33		6.8		2.66		2.61	
n-Hexane	~	21.1		4.48		1.11		1.15	
o-Xylene (1,2-Dimethylbenzene)	~	69.9		14.4		11.6		8.9	
Styrene	~	1.26		0.852	U	0.852	U	0.852	U
Tert-Butyl Alcohol	~	1.52	U	2.79		1.52	U	1.52	U
Tetrachloroethene (PCE)	100	36		1.93		1.36	U	3.62	
Toluene	~	138		37.7		26.7		20.8	
Trichloroethene (TCE)	6	5.13		1.07	U	1.07	U	1.07	U
Trichlorofluoromethane	~	5.96		1.12	U	1.12	U	5.16	

Notes:
1. Soil vapor sample analytical results are compared to the minimum soil vapor concentrations recommending mitigation as set forth in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (2017).
2. Only detected analytes are shown in the table.
3. Detected analytical results above the minimum soil vapor concentrations recommending mitigation are bolded and shaded.
4. Analytical results with reporting limits (RL) above the minimum soil vapor concentrations recommending mitigation are italicized.
5. ~ = Regulatory limit for this analyte does not exist
6. µg/m³ = micrograms per cubic meter
7. SV = Soil Vapor

Qualifiers:
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.

FIGURES



$SSUR[LPDWH6LWH%RXQGDU\

LANGAN

3URMHFW

LJXUHWLWOH

67(

3URMHFWR

DWH

6FDOH

UDZQ%\

6XEPLVVLRQDWH

LJXUHR

6HHW RI

6RLO %RULQJ

&ROORFDWHG 6RLO %RULQJ 6RLO 9DSRU 3RLQW

$SSUR[LPDWH 6LWH %RXQGDU\

6XVSHFWHG $UHD

LANGAN

3URMHFW

)LJXUH 7LWOH

3URMHFW 1R

'DWH

6FDOH

'UDZQ %\

6XEPLVVLRQ 'DWH

)LJXUH 1R

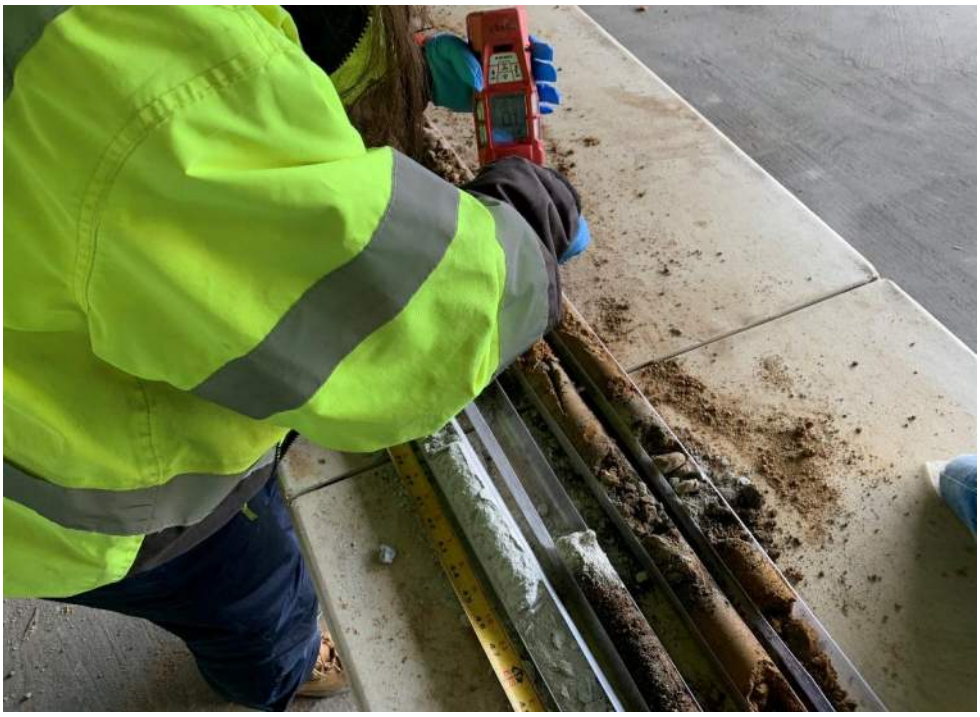
6KHHW 1R

APPENDIX A

SITE PHOTOGRAPHS

Photograph 1: View of Eastern drilling a soil boring with the Geoprobe® 7822DT track-mounted rig. Photo taken on January 28, 2020.

Photograph 2: View of typical soil profile. Photo taken on January 28, 2020.



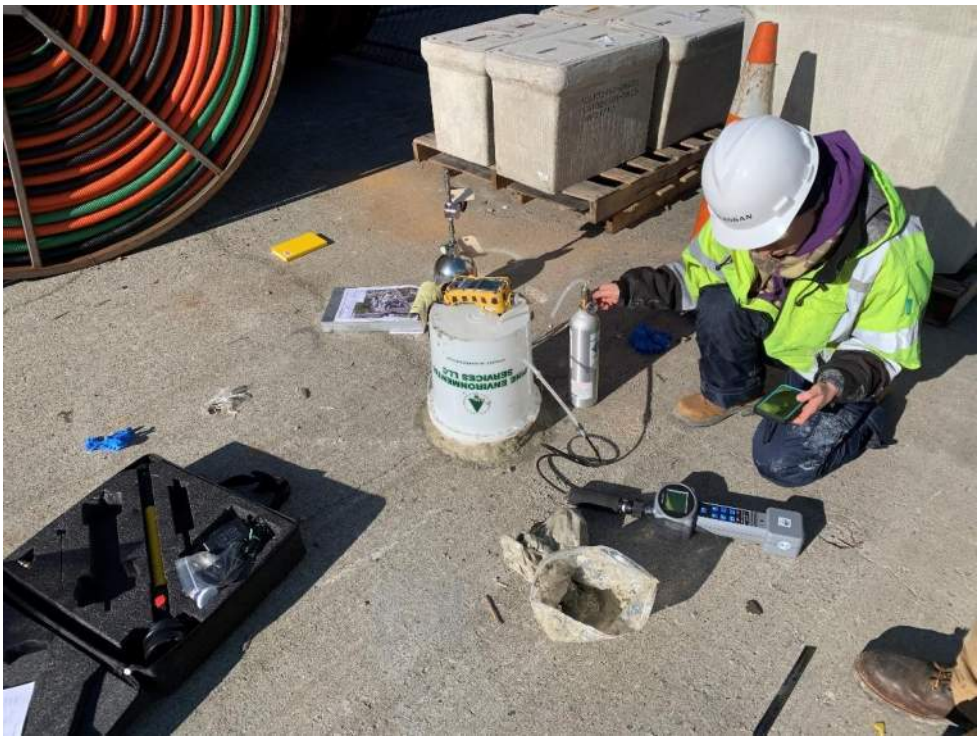
Photograph 3: View of Langan personnel field screening a soil boring with a PID. Photo taken on January 28, 2020.

Photograph 4: General view of supply storage/warehousing portion of the site. Photo taken on January 28, 2020.

Photograph 5: View of cellar area where suspected UST is located. Photo taken on January 28, 2020.

Photograph 6: General view of storefront portion of the site. Photo taken on January 28, 2020.

Photograph 7: View of fuel oil fill port located on Rockaway Avenue sidewalk. Photo taken on January 28, 2020.



Photograph 8: View of Langan personnel conducting a helium tracer test. Photo taken on January 29, 2020.

Photograph 9: View of Eastern drilling a soil boring with the Geoprobe® 420M in the cellar portion of the site. Photo taken on January 29, 2020.

Photograph 10: View of typical soil vapor sampling setup. Photo taken on January 29, 2020.

APPENDIX B

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property
326-350 Rockaway Avenue,
Brooklyn, New York 11212

NOVA PROJECT NUMBER:

20-1629

DATED:

February 3, 2020

PREPARED FOR:

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions

56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

February 3, 2020

Kimberly Semon (Del Col), PE
Project Engineer
LANGAN
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727
Direct: 212.479.5486
Mobile: 631.338.2036

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
326-350 Rockaway Avenue,
Brooklyn, New York 11212

Dear Ms. Semon:

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 326-350 Rockaway Avenue, Brooklyn, New York 11212 (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks and other substructures on January 28th, 2020.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a Radio Detection RD7100 Electromagnetic utility locator.

A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transduce via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the

subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

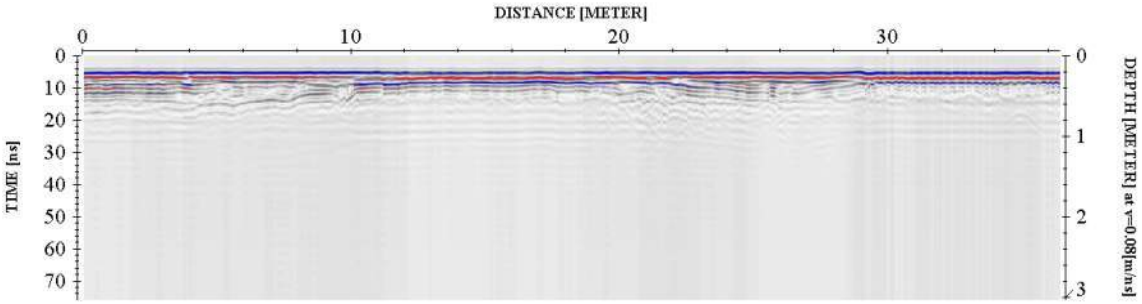
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

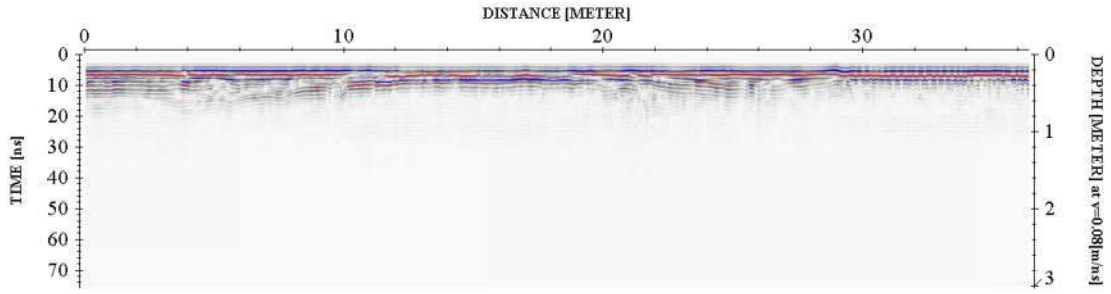
DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

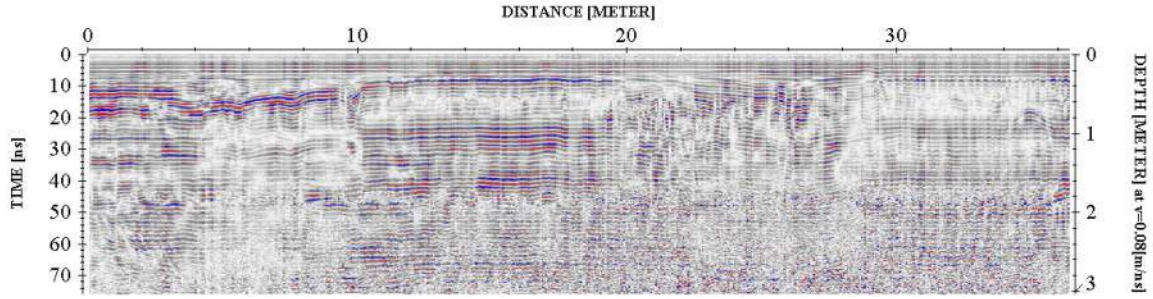
Step 1. Import Raw RAMAC data to standard processing format



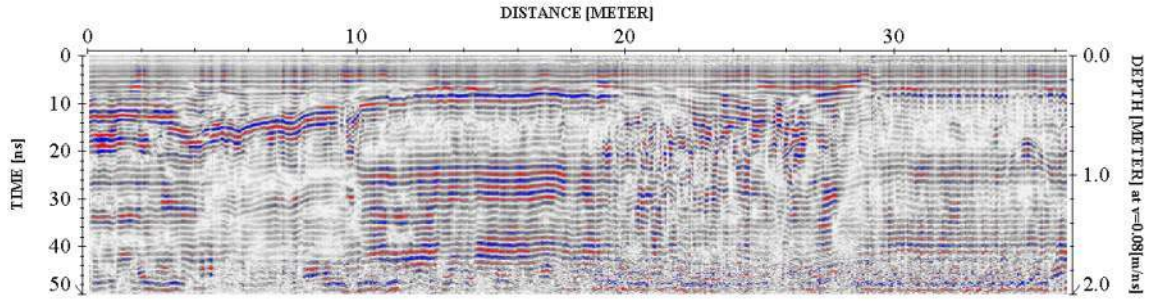
Step 2. Remove instrument noise *(dewow)*



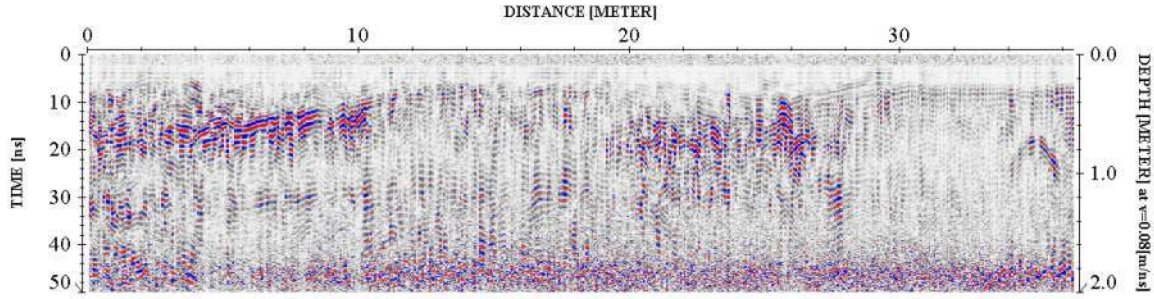
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Clear

Temperature: 40° F

Surface: Concrete

Limitations: The geophysical noise level at the site was moderate due to being located in an urban environment. Portions of the cellar site were inaccessible at the time of the survey.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as sewer, water, electric, gas, and telecom) were identified during the GES. The approximate locations are shown in the Survey Plan.
- A large geophysical anomaly resembling a potential underground storage tank (UST) was identified during the GES. A suspected potential direct fill port, vent pipe and remote fill line were also observed in the vicinity. Shown in the survey plan and geophysical images.
- All detected subsurface anomalies were marked in the onsite mark out.
- All cleared boring locations were marked in the onsite mark out.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.

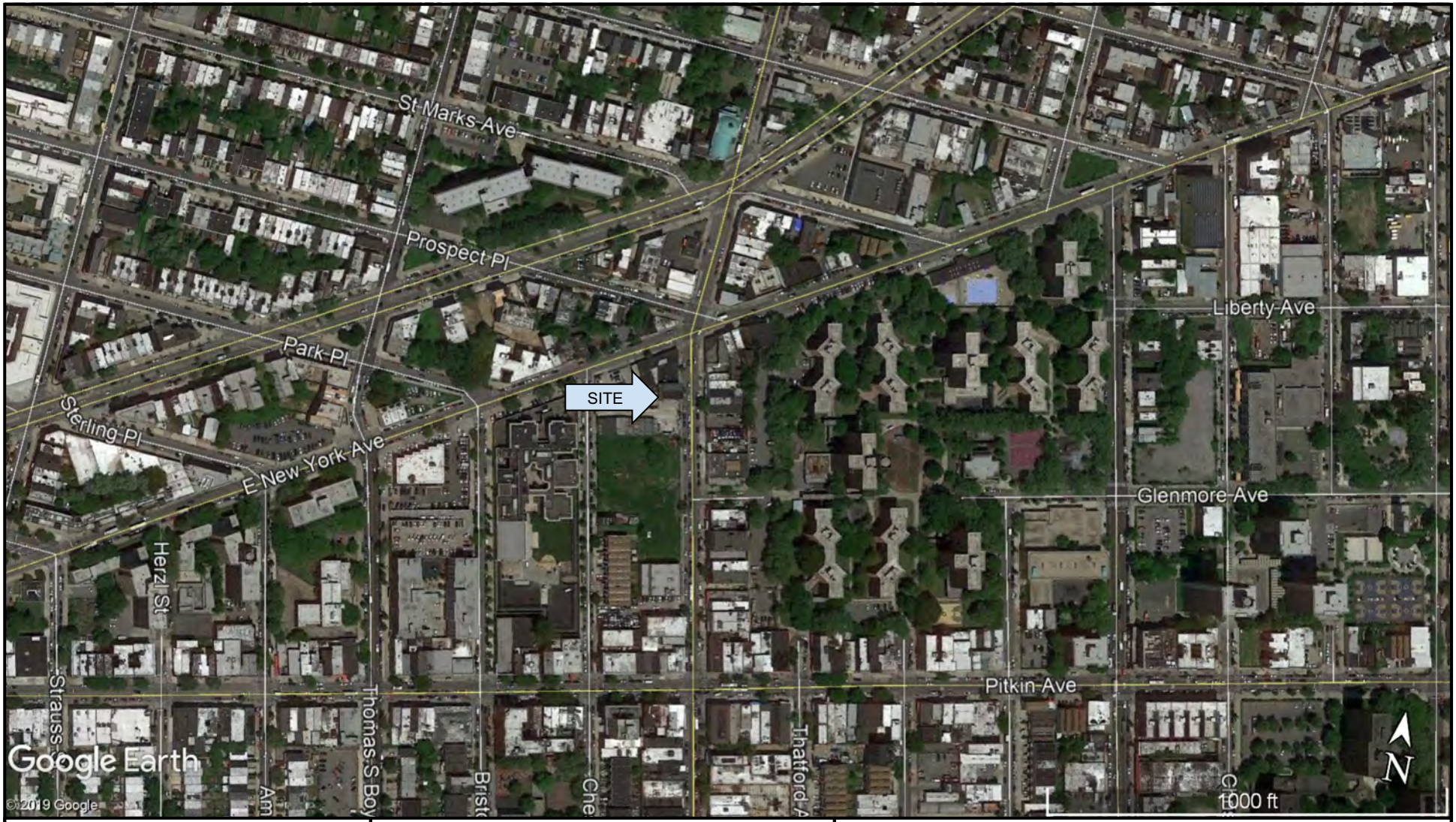
Project Engineer

Attachments:

Location Map

Survey Plan

Geophysical Images



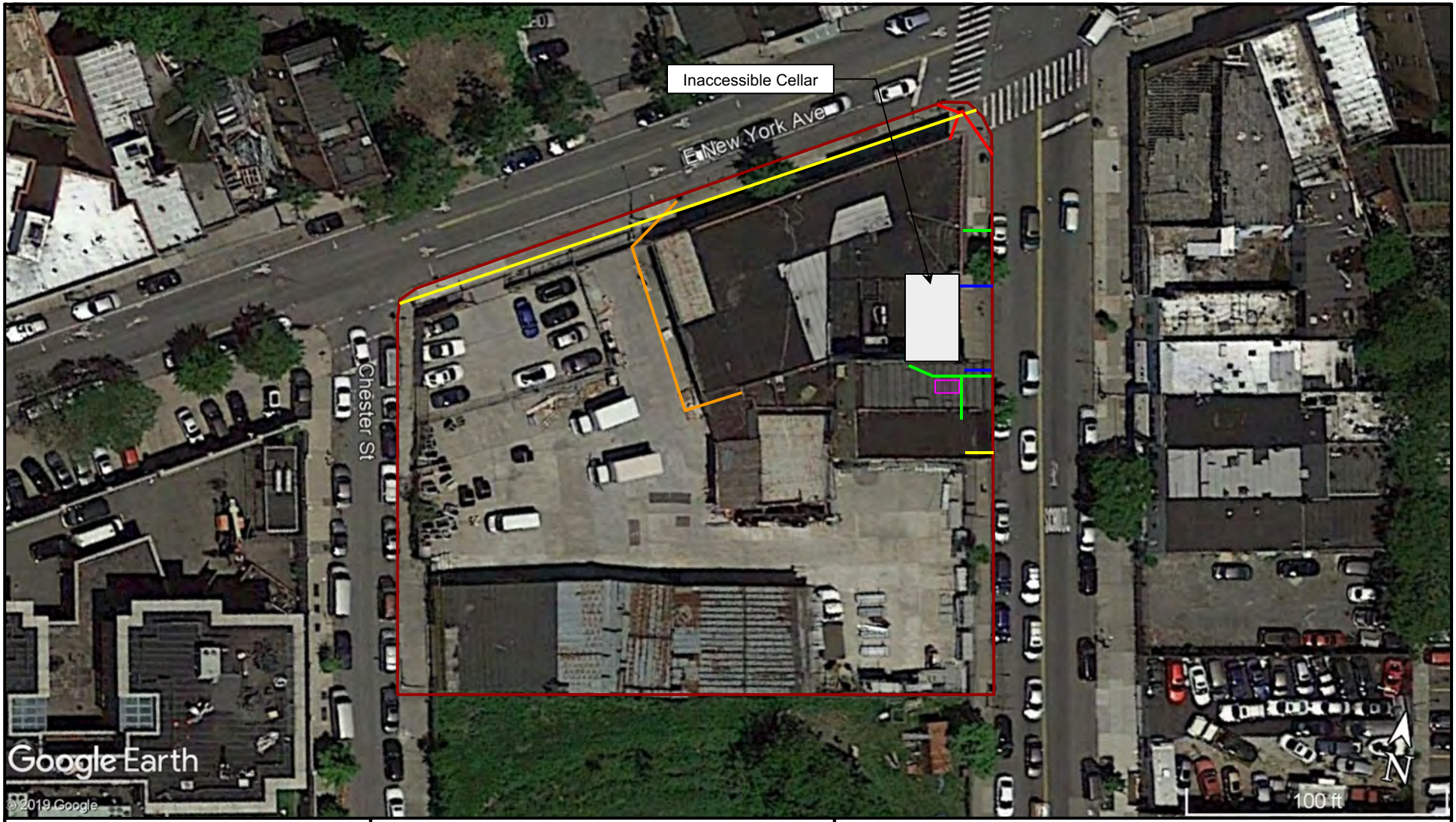
NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

Location Map

SITE:	**Commercial Site** 326-350 Rockaway Avenue, Brooklyn, New York 11212
CLIENT:	Langan
DATE:	January 28th, 2020
AUTH:	Chris Steinley

LEGEND



NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

SURVEY PLAN

SITE:	**Commercial Site** 326-350 Rockaway Avenue, Brooklyn, New York 11212
CLIENT:	Langan
DATE:	January 28th, 2020
AUTH:	Chris Steinley

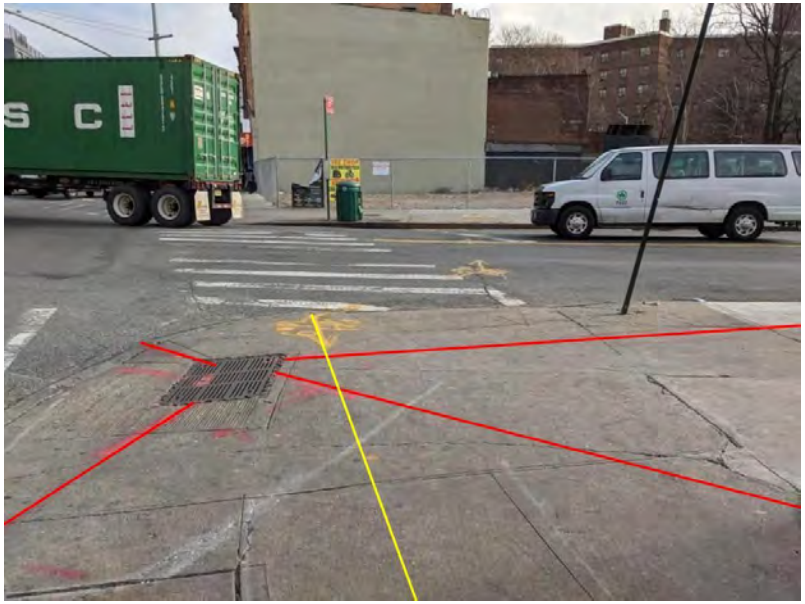
LEGEND

- Survey Area
- Sewer
- Water
- Gas
- Electric
- Telecom
- UST

GEOPHYSICAL IMAGES

Commercial Site

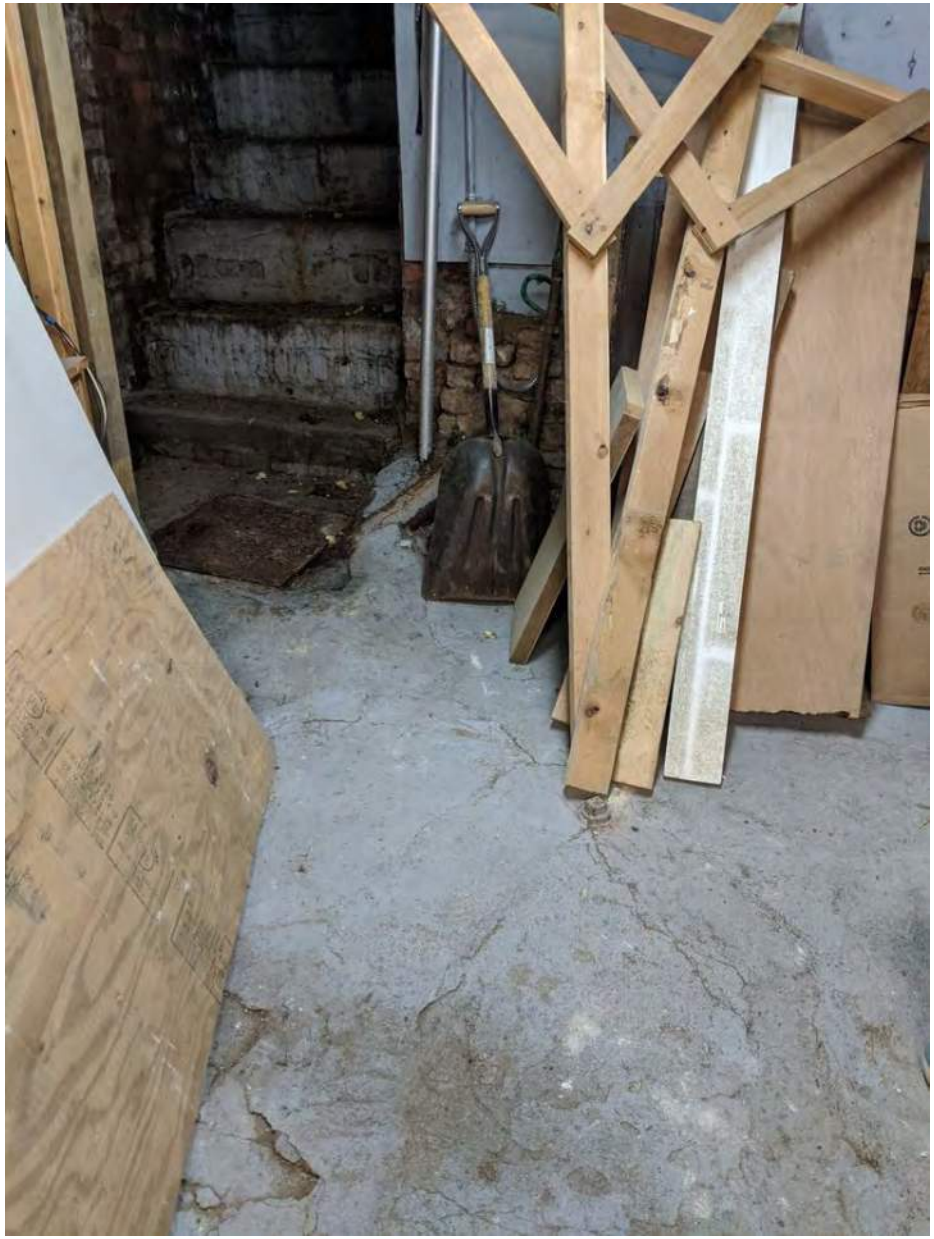
326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

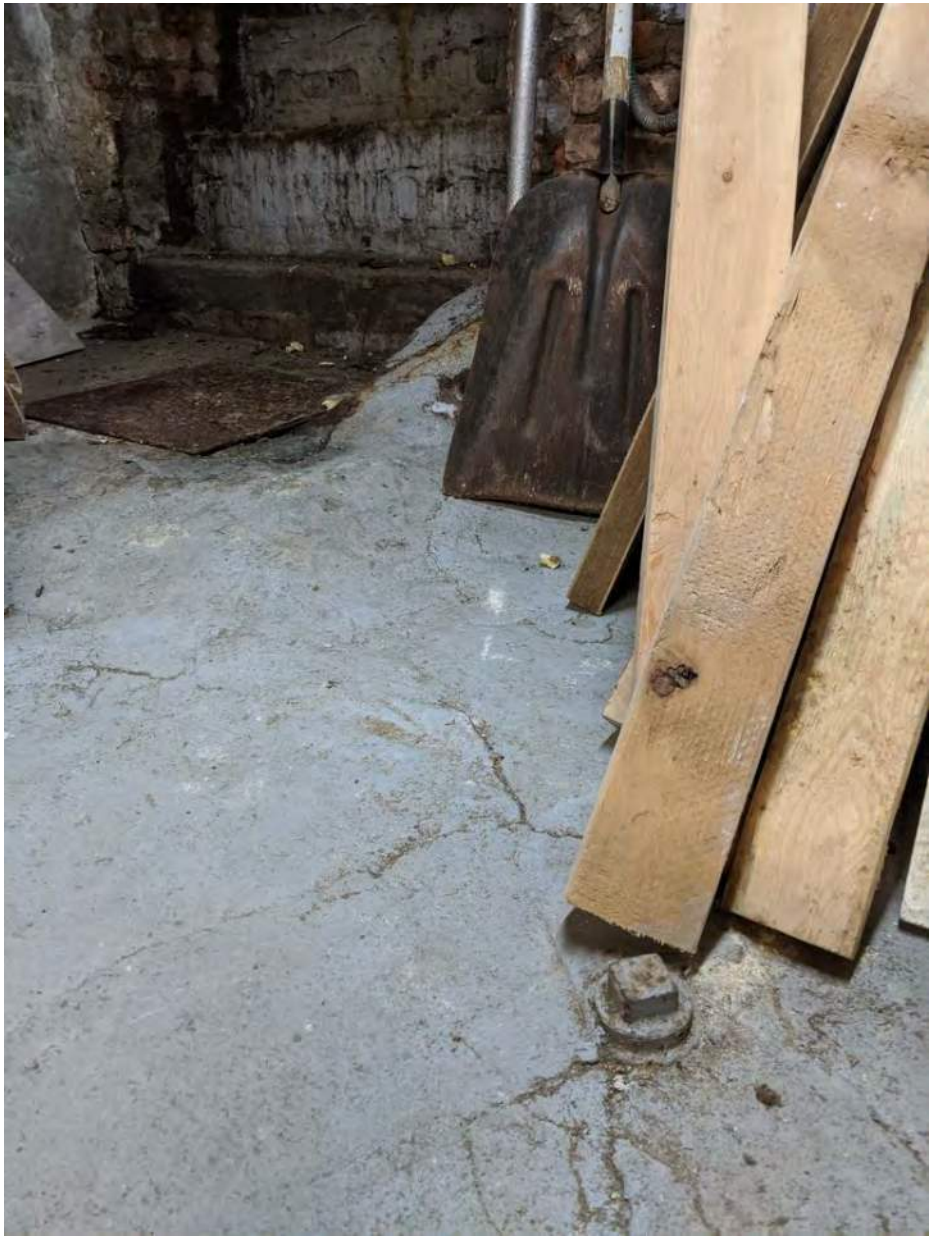


GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020





GEOPHYSICAL IMAGES

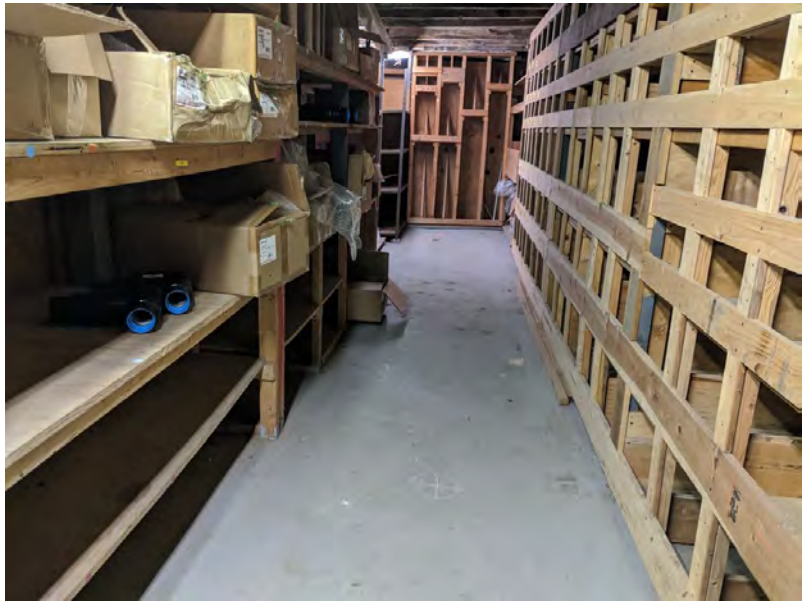
Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020



GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

GEOPHYSICAL IMAGES

Commercial Site

326-350 Rockaway Avenue,
Brooklyn, New York 11212
January 28th, 2020

APPENDIX C

SOIL BORING LOGS

LANGAN

Log of Boring **SB01** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/29/20 — Date Finished: 1/29/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 17 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 3 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 3-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CELLAR.	0						
			1						
			2						
			3						
			4						
			5						
			6						
			7						
		R1a (0-29") Brown to tan, fine SAND, some silt (dry) [FILL].	8	R1	MACROCORE	29/36"		0.0	
			9					0.0	
			10					0.0	
			11					0.0	
			12					0.0	
		R2a (0-12") Brownish tan, fine SAND, some silt (moist).	13	R2	MACROCORE	18/36"		0.0	
		R2b (12-18") Brown, fine SAND, some fine gravel, trace coarse sand, trace silt (dry).	14					0.0	
		R3a (0-24") Brown, fine SAND, some fine gravel, trace coarse sand, trace silt (dry).	15	R3	MACROCORE	24/36"		0.0	15 to 17 feet bgs - Collect sample SB01_15-17 and SB01_16.5-17 (VOCs).
			16					0.0	
			17					0.0	Bottom of boring at approximately 17 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			18						
			19						
			20						

\\LANGAN.COM\DATA\NYC\DATA4\170610401\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170610401_ENTERPRISE.GPJ ... 1/31/2020 3:06:28 PM ... Report: Log - LANGAN

LANGAN

Log of Boring **SB02** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-24") Concrete fragments, brick fragments (dry) [FILL].	0	R1	MACROCORE	24/60"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	
			4						
			5	R2	MACROCORE	36/60"			
			6						
		R2a (0-12") Dark gray to black, medium SAND; with slag (dry) [FILL].	7					3.8	
			8					4.8	7 to 8 feet bgs - Collect sample SB02_7-8. Slight petroleum-like odor observed.
		R2b (12-18") Orangish brown, fine SAND, trace silt (dry).						0.0	
		R2c (18-36") Tannish brown, clayey SILT, trace fine sand (moist).	9					0.0	
			10					0.0	
			11	R3	MACROCORE	36/60"			
		R3a (0-12") Orangish brown, fine SAND, trace silt (dry).	12					0.0	
			13					0.0	
		R3b (12-36") Tannish brown, medium SAND, trace fine gravel (dry).	14					0.0	
			15					0.0	
			16					0.0	
			17	R4	MACROCORE	36/60"			
		R4a (0-36") Tannish brown, medium SAND, trace fine gravel (dry).	18					0.0	
			19					0.0	
			20					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.

LANGAN

Log of Boring **SB03** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-24") Light gray to dark brown, silty SAND; with brick fragments, coal fragments, concrete fragments (dry) [FILL].	0	R1	MACROCORE	24/60"		0.0	
			1					0.0	
								0.0	
			2					0.0	0 to 1 feet bgs - Collect sample SB03_0-1.
			3						
			4						
			5	R2	MACROCORE	18/60"			
			6						
			7						
			8					0.0	
		R2a (0-18") Olive brown, sandy SILT, some clay (moist).	9					0.0	
								0.0	
			10	R3	MACROCORE	48/60"			
			11						
			12					0.0	
		R3a (0-12") Orangish brown, fine SAND, trace silt (dry).						0.0	
		R3b (12-48") Orangish brown, medium SAND, trace fine gravel (dry).	13					0.0	
								0.0	
			14					0.0	
								0.0	
			15	R4	MACROCORE	48/60"			
			16					0.0	
		R4a (0-48") Tannish brown, medium SAND, trace fine gravel (dry).						0.0	
			17					0.0	
								0.0	
			18					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
								0.0	
			19					0.0	
								0.0	
			20						

LANGAN

Log of Boring **SB04** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-60") Grayish brown to red, silty SAND; with brick fragments, coal fragments, concrete fragments (dry) [FILL].	0	R1	MACROCORE	60/60"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
			5					0.0	4 to 5 feet bgs - Collect sample SB04_4-5.
		R2a (0-12") Grayish brown to red, silty SAND; with brick fragments, coal fragments, concrete fragments (dry) [FILL].	6	R2	MACROCORE	36/60"			
			7					0.0	
		R2b (12-36") Orangish brown, fine SAND, some silt, trace fine gravel (dry).	8					0.0	
			9					0.0	
		R3a (0-60") Orangish brown, medium SAND, some silt, trace fine gravel (dry).	10	R3	MACROCORE	60/60"		0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
		R4a (0-60") Orangish brown, medium SAND, some silt, trace fine gravel (dry).	15	R4	MACROCORE	60/60"		0.0	
			16					0.0	
			17					0.0	
			18					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			19					0.0	
			20					0.0	

LANGAN

Log of Boring **SB05** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion N/A — 24 HR. N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-24") Concrete and brick fragments [FILL].	0	R1	MACROCORE	24/60"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	
			4						
			5	R2	MACROCORE	24/60"			
			6						
			7						
		R2a (0-12") Dark brownish black, silty SAND; with brick fragments, coal fragments (dry) [FILL].	8					0.0	
								0.0	8 to 9 feet bgs - Collect sample SB05_8-9.
		R2b (12-24") Orangish brown, fine SAND (moist).	9					0.0	
								0.0	
			10					0.0	
		R3a (0-48") Brown, medium SAND, trace fine gravel (dry).	11	R3	MACROCORE	48/60"		0.0	
								0.0	
			12					0.0	
								0.0	
			13					0.0	
								0.0	
			14					0.0	
								0.0	
		R4a (0-24") Brown, medium SAND, trace fine gravel (dry).	15					0.0	
				R4	MACROCORE	60/60"		0.0	
			16					0.0	
								0.0	
			17					0.0	
								0.0	
			18					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
		R4b (24-60") Orangish brown, silty SAND (moist).						0.0	
			19					0.0	
								0.0	
			20						

LANGAN

Log of Boring **SB06** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/29/20 — Date Finished: 1/29/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 8 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 3 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 3-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-24") Gray to red, medium SAND, some silt; with brick fragments (dry) [FILL].	0	R1	MACROCORE	12/36"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	
		R2a (0-24") Brownish tan to black, fine SAND, some silt; with brick fragments (dry) [FILL].	4	R2	MACROCORE	24/36"		0.0	
			5					0.0	4 to 6 feet bgs - Collect sample SB06_4-6 and SB06_5.5-6 (VOCs).
			6					0.0	
		R3a (0-12") Brownish black, fine SAND, some fine gravel, trace coarse sand, trace silt; with brick fragments (dry) [FILL].	7	R3	MACROCORE	24/24"		0.0	
			8					0.0	Refusal encountered at 8 feet bgs (location was offset 3 times, all hitting refusal at 8 feet bgs). Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

LANGAN

Log of Boring **SB07** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/29/20 — Date Finished: 1/29/20
Drilling Equipment: Geoprobe 420M	Completion Depth: 17 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 3 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 3-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		CELLAR.	0–8						
		R1a (0-18") Brown to tan, fine SAND, some silt (dry) [FILL].	8–11	R1	MACROCORE	18/36"		0.0, 0.0, 0.0, 0.0, 0.0	
		R2a (0-12") Brownish tan, fine SAND, some silt (moist). R2b (12-24") Brown, fine SAND, some fine gravel, trace coarse sand, trace silt (dry).	11–14	R2	MACROCORE	24/36"		0.0, 0.0, 0.0, 0.0	
		R3a (0-36") Brown, fine SAND, some fine gravel, trace coarse sand, trace silt (dry).	14–17	R3	MACROCORE	36/36"		0.0, 0.0, 0.0, 0.0	15 to 17 feet bgs - Collect sample SB07_15-17 and SB07_16.5-17 (VOCs). Bottom of boring at approximately 17 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			17–20						

\\LANGAN.COM\DATA\NYC\DATA4\170610401\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170610401_ENTERPRISE.GPJ ... 1/31/2020 3:06:39 PM ... Report: Log - LANGAN

LANGAN

Log of Boring **SB08** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-24") Concrete fragments, brick fragments (dry) [FILL].	0	R1	MACROCORE	24/60"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	
			4						
			5	R2	MACROCORE	30/60"			
			6						
		R2a (0-18") Black, gravelly SAND, some silt; with wood fragments (moist) [FILL].	7					3.8	
			8					4.8	7.5 to 8.5 feet bgs - Collect sample SB08_7.5-8.5.
			9					0.0	
		R2b (18-30") Orangish brown, fine SAND, trace fine gravel (dry).	10					0.0	
		R3a (0-42") Orangish brown, silty SAND, trace fine gravel (dry).	11	R3	MACROCORE	42/60"		0.0	
			12					0.0	
			13					0.0	
			14					0.0	
			15					0.0	
			16						
		R3b (0-36") Reddish brown, medium sand, trace fine gravel (dry).	17	R4	MACROCORE	36/60"		0.0	
			18					0.0	
			19					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			20					0.0	

LANGAN

Log of Boring **SB09** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/A — Completion ▼ N/A — 24 HR. ▼ N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-36") Dark brown to red, fine SAND, some medium sand, trace silt, trace fine gravel; with brick fragments, concrete fragments, white amorphous material [FILL].	0–5	R1	MACROCORE	36/60"		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	1.5 to 2.5 feet bgs - Collect sample SB09_1.5-2.5.
		R2a (0-12") Grayish red to brown, medium SAND, trace fine gravel; with brick fragments, white amorphous material (dry) [FILL]. R2b (12-36") Orangish brown, silty SAND, trace clay (dry).	5–10	R2	MACROCORE	36/60"		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	
		R3a (0-48") Orangish brown, medium SAND, some gravel (dry).	10–15	R3	MACROCORE	48/60"		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	
		R4a (0-48") Orangish brown, medium SAND, trace fine gravel (dry).	15–20	R4	MACROCORE	48/60"		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.

\\LANGAN.COM\DATA\NYC\DATA4\170610401\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170610401_ENTERPRISE.GPJ... 1/31/2020 3:06:43 PM... Report: Log - LANGAN

LANGAN

Log of Boring **SB10** Sheet 1 of 1

Project: 326-350 Rockaway Avenue	Project No.: 170610401
Location: 326 Rockaway Ave	Elevation and Datum: N/A
Drilling Company: Eastern Environmental Solutions, Inc.	Date Started: 1/28/20 — Date Finished: 1/28/20
Drilling Equipment: Geoprobe 7822DT	Completion Depth: 20 ft — Rock Depth: N/A
Size and Type of Bit: 2-inch Direct Push	Number of Samples: Disturbed 4 — Undisturbed N/A — Core N/A
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First N/A — Completion N/A — 24 HR. N/A
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Patrick Slavin
Sampler: 5-foot Stainless Steel Macrocore with Acetate Liner	Field Engineer: Eric Monfort
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		R1a (0-48") Dark brown, silty SAND, trace fine gravel; with brick fragments, coal fragments, concrete fragments (dry) [FILL].	0	R1	MACROCORE	54/60"		0.0	
			1					0.0	
			2					0.0	
			3					0.0	2 to 3 feet bgs - Collect sample SB10_2-3.
			4					0.0	
		R1b (48-54") Orangish brown, silty SAND (dry).	5					0.0	
			6					0.0	
		R2a (0-12") Dark brown to light orangish brown, silty SAND, trace clay (dry).	7	R2	MACROCORE	54/60"		0.0	
			8					0.1	
			9					0.0	
		R2b (12-54") Olive orangish brown, silty SAND, trace clay (dry).	10					0.0	
			11					0.0	
		R3a (0-54") Orangish brown, medium SAND, trace fine gravel (dry).	12	R3	MACROCORE	54/60"		0.0	
			13					0.0	
			14					0.0	
		R4a (0-54") Orangish brown, medium SAND, trace silt, trace fine gravel (dry).	15					0.0	
			16					0.0	
			17	R4	MACROCORE	54/60"		0.0	
			18					0.0	Bottom of boring at approximately 20 feet bgs. Borehole backfilled with clean soil cuttings to grade and patched with concrete.
			19					0.0	
			20					0.0	

APPENDIX D

SUB-SLAB AND SOIL VAPOR PROBE CONSTRUCTION AND SAMPLING LOGS

SUB-SLAB VAPOR SAMPLING LOG SHEET

Sample Number: SVP01

PROJECT: 326-350 Rockaway Avenue	**PROJECT NO.:** 170610401	
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:** NA	
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	**INSTALLATION DATE STARTED:** 1/29/2020	**DATE FINISHED:** 1/29/2020
INSTALLATION FOREMAN: Patrick Slavin	**SAMPLE DATE STARTED:** 1/29/2020	**DATE FINISHED:** 1/29/2020
INSTALLATION EQUIPMENT: Hammer Drill	**TYPE OF SAMPLING DEVICE:** 2.7-Liter Summa Canister	
INSPECTOR: Eric Monfort	**SAMPLER:** Eric Monfort	
POTENTIAL SAMPLE INTERFERENCES: Airbourne particulates/exhaust due to advancement of adjacent soil boring with Geoprobe® 420M drill rig.	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 31 to 41 °F Wind: NE @ 0 to 5 mph Precipitation: None Pressure: 30.31 inHg	

METHOD OF INSTALLATION AND PURGING:

Sub-slab vapor sampling point was installed by Eastern using a hammer drill by hand-drilling a 5/8-inch diameter hole through the concrete slab to a depth of about one inch into the underlying soil. The sampling point was then completed with polyethylene tubing and sealed to cellar grade with hydrated bentonite.

TUBING TYPE/DIAMETER: ⅜" ID x 1/2" OD Poly	**TYPE OF MATERIAL ABOVE SEAL:** None	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: None	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite	
BOREHOLE DIAMETER: 5/8-inch	**FILTER PACK MATERIAL (Sand or Glass Beads):** None	

PURGE VOLUME (L):	0.10	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.4	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	19.3%	15.8%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	10:05	
SAMPLE STOP TIME:	12:05	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.018	
VOLUME OF SAMPLE (LITERS):	2.7	
PID AFTER SAMPLE (PPM):	0.0	
SAMPLE MOISTURE CONTENT:	NA	
CAN SERIAL NUMBER:	2078	
REGULATOR SERIAL NUMBER:	1385	
CAN START VACUUM PRESS. (" HG):	-30.59	
CAN STOP VACUUM PRESS. (" HG):	-4.65	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	**DEPTH (FEET FROM SURFACE)**	**NOTES**
SURFACE / SURFACE — **Top of Slab**	0.00	
Bottom of Slab	0.50	
Probe Depth	0.58	

SAMPLE LOCATION SKETCH

See Sample Location Plan.

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SVP02

PROJECT: 326-350 Rockaway Avenue	**PROJECT NO.:** 170610401
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:** NA
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	**INSTALLATION DATE STARTED:** 1/28/2020 — **DATE FINISHED:** 1/28/2020
INSTALLATION FOREMAN: Patrick Slavin	**SAMPLE DATE STARTED:** 1/29/2020 — **DATE FINISHED:** 1/29/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822DT	**TYPE OF SAMPLING DEVICE:** 2.7-Liter Summa Canister
INSPECTOR: Eric Monfort	**SAMPLER:** Eric Monfort
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 37 to 43 °F; Wind: NE @ 0 to 5 mph; Precipitation: None; Pressure: 30.12 inHg

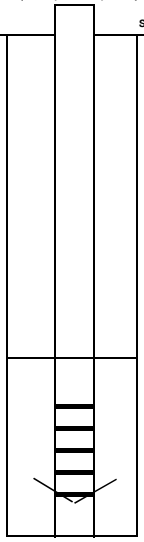
METHOD OF INSTALLATION AND PURGING:

Advanced Geoprobe® to five feet below grade surface (bgs); installed soil vapor probe; backfilled with filter sand; sealed to surface with hydrated bentonite; purged using MultiRAE (0.2 L/min); integrity of seal was tested via a helium tracer test.

TUBING TYPE/DIAMETER: ⅜" ID x 1/2" OD Poly	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BORE HOLE DIAMETER: 2-inch diameter	**FILTER PACK MATERIAL (Sand or Glass Beads):** Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.5	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	22.4%	23.6%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	10:35	
SAMPLE STOP TIME:	12:35	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.018	
VOLUME OF SAMPLE (LITERS):	2.7	
PID AFTER SAMPLE (PPM):	0.0	
SAMPLE MOISTURE CONTENT:	NA	
CAN SERIAL NUMBER:	223	
REGULATOR SERIAL NUMBER:	1789	
CAN START VACUUM PRESS. (" HG):	-30.48	
CAN STOP VACUUM PRESS. (" HG):	-5.50	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



DEPTH (FEET FROM SURFACE)	NOTES
0	
4	
5	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SVP03

PROJECT: 326-350 Rockaway Avenue	**PROJECT NO.:** 170610401
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:** NA
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	**INSTALLATION DATE STARTED:** 1/28/2020 — **DATE FINISHED:** 1/28/2020
INSTALLATION FOREMAN: Patrick Slavin	**SAMPLE DATE STARTED:** 1/29/2020 — **DATE FINISHED:** 1/29/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822DT	**TYPE OF SAMPLING DEVICE:** 2.7-Liter Summa Canister
INSPECTOR: Eric Monfort	**SAMPLER:** Eric Monfort
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 37 to 43 °F; Wind: NE @ 0 to 5 mph; Precipitation: None; Pressure: 30.12 inHg

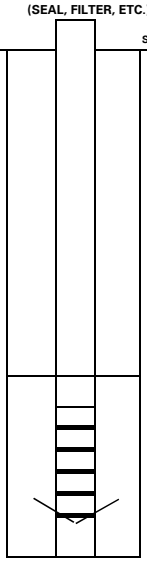
METHOD OF INSTALLATION AND PURGING:

Advanced Geoprobe® to five feet below grade surface (bgs); installed soil vapor probe; backfilled with filter sand; sealed to surface with hydrated bentonite; purged using MultiRAE (0.2 L/min); integrity of seal was tested via a helium tracer test.

TUBING TYPE/DIAMETER: ⅜" ID x 1/2" OD Poly	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch diameter	**FILTER PACK MATERIAL (Sand or Glass Beads):** Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.1	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	24.5%	19.6%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	11:20	
SAMPLE STOP TIME:	13:20	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.018	
VOLUME OF SAMPLE (LITERS):	2.7	
PID AFTER SAMPLE (PPM):	0.0	
SAMPLE MOISTURE CONTENT:	NA	
CAN SERIAL NUMBER:	2797	
REGULATOR SERIAL NUMBER:	808	
CAN START VACUUM PRESS. (" HG):	-29.95	
CAN STOP VACUUM PRESS. (" HG):	-5.10	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



	DEPTH (FEET FROM SURFACE)	NOTES
Top of Seal	0	
Top of Pack	4	
Probe Depth	5	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SVP04

PROJECT: 326-350 Rockaway Avenue	**PROJECT NO.:** 170610401	
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:** NA	
DRILLING FIRM OR LANGAN INSTALLER: Eastern Environmental Solutions, Inc.	**INSTALLATION DATE STARTED:** 1/28/2020	**DATE FINISHED:** 1/28/2020
INSTALLATION FOREMAN: Patrick Slavin	**SAMPLE DATE STARTED:** 1/29/2020	**DATE FINISHED:** 1/29/2020
INSTALLATION EQUIPMENT: Geoprobe® 7822DT	**TYPE OF SAMPLING DEVICE:** 2.7-Liter Summa Canister	
INSPECTOR: Eric Monfort	**SAMPLER:** Eric Monfort	
POTENTIAL SAMPLE INTERFERENCES: N/A	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 37 to 43 °F; Wind: NE @ 0 to 5 mph; Precipitation: None; Pressure: 30.12 inHg	

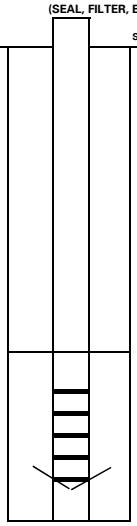
METHOD OF INSTALLATION AND PURGING:

Advanced Geoprobe® to five feet below grade surface (bgs); installed soil vapor probe; backfilled with filter sand; sealed to surface with hydrated bentonite; purged using MultiRAE (0.2 L/min); integrity of seal was tested via a helium tracer test.

TUBING TYPE/DIAMETER: ⅜" ID x 1/2" OD Poly	**TYPE OF MATERIAL ABOVE SEAL:** Hydrated bentonite
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Bentonite
BOREHOLE DIAMETER: 2-inch diameter	**FILTER PACK MATERIAL (Sand or Glass Beads):** Sand

PURGE VOLUME (L):	0.20	
PURGE FLOW RATE (ML/MIN):	200	
PID AFTER PURGE (PPM):	0.0	
HELIUM TESTS	Pre-sampling	Post-sampling
HELIUM TEST IN BUCKET(%):	16.3%	18.5%
HELIUM TEST IN TUBE (PPM):	0.0	0.0
SAMPLE START TIME:	11:35	
SAMPLE STOP TIME:	13:35	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.018	
VOLUME OF SAMPLE (LITERS):	2.7	
PID AFTER SAMPLE (PPM):	0.0	
SAMPLE MOISTURE CONTENT:	NA	
CAN SERIAL NUMBER:	338	
REGULATOR SERIAL NUMBER:	1480	
CAN START VACUUM PRESS. (" HG):	-30.48	
CAN STOP VACUUM PRESS. (" HG):	-7.50	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)



	DEPTH (FEET FROM SURFACE)	NOTES
Top of Seal	0	
Top of Pack	4	
Probe Depth	5	

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX E

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Lab Number:	L2003963
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:	326-350 ROCKAWAY AVENUE
Project Number:	170610401
Report Date:	02/04/20

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: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2003963-01	SB02_7-8	SOIL	BROOKLYN, NEW YORK	01/28/20 11:45	01/28/20
L2003963-02	SB03_0-1	SOIL	BROOKLYN, NEW YORK	01/28/20 13:15	01/28/20
L2003963-03	SB04_4-5	SOIL	BROOKLYN, NEW YORK	01/28/20 15:20	01/28/20
L2003963-04	SB05_8-9	SOIL	BROOKLYN, NEW YORK	01/28/20 10:10	01/28/20
L2003963-05	SB08_7.5-8.5	SOIL	BROOKLYN, NEW YORK	01/28/20 10:30	01/28/20
L2003963-06	SB09_1.5-2.5	SOIL	BROOKLYN, NEW YORK	01/28/20 14:15	01/28/20
L2003963-07	SB10_2-3	SOIL	BROOKLYN, NEW YORK	01/28/20 13:45	01/28/20

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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.

Volatile Organics

L2003963-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2003963-04: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (45%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2003963-04R: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (60%), possibly due to the matrix effect caused by the high pH of the sample (>10).

L2003963-04 and -05: Due to acetone being a compound of concern, the sample was re-analyzed for confirmation; the results of both analyses are reported. Differences were noted between the acetone results.

L2003963-05: The internal standard (IS) response(s) for chlorobenzene-d5 (40%), and 1,4-dichlorobenzene-d4 (15%) and the surrogate recovery for 1,2-dichloroethane-d4 (140%), toluene-d8 (165%), 4-bromofluorobenzene (169%) and dibromofluoromethane (140%) were outside the acceptance criteria; however, re-analysis achieved similar results: chlorobenzene-d5 (46%), and 1,4-dichlorobenzene-d4 (17%) and 1,2-dichloroethane-d4 (134%), toluene-d8 (153%), 4-bromofluorobenzene (161%) and dibromofluoromethane (134%). The results of both analyses are reported.

Semivolatile Organics

L2003963-02 and -07: The sample has elevated detection limits due to the dilution required by the sample matrix.

The WG1335647-2/-3 LCS/LCSD recoveries, associated with L2003963-01 through -07, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

Case Narrative (continued)

Total Metals

L2003963-01 through -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 02/04/20

ORGANICS

VOLATILES

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45
Client ID: SB02_7-8 Date Received: 01/28/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 11:32
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	430	200	1
1,1-Dichloroethane	ND		ug/kg	86	12.	1
Chloroform	ND		ug/kg	130	12.	1
Carbon tetrachloride	ND		ug/kg	86	20.	1
1,2-Dichloropropane	ND		ug/kg	86	11.	1
Dibromochloromethane	ND		ug/kg	86	12.	1
1,1,2-Trichloroethane	ND		ug/kg	86	23.	1
Tetrachloroethene	ND		ug/kg	43	17.	1
Chlorobenzene	ND		ug/kg	43	11.	1
Trichlorofluoromethane	ND		ug/kg	340	60.	1
1,2-Dichloroethane	ND		ug/kg	86	22.	1
1,1,1-Trichloroethane	ND		ug/kg	43	14.	1
Bromodichloromethane	ND		ug/kg	43	9.4	1
trans-1,3-Dichloropropene	ND		ug/kg	86	24.	1
cis-1,3-Dichloropropene	ND		ug/kg	43	14.	1
1,3-Dichloropropene, Total	ND		ug/kg	43	14.	1
1,1-Dichloropropene	ND		ug/kg	43	14.	1
Bromoform	ND		ug/kg	340	21.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	43	14.	1
Benzene	ND		ug/kg	43	14.	1
Toluene	ND		ug/kg	86	47.	1
Ethylbenzene	12	J	ug/kg	86	12.	1
Chloromethane	ND		ug/kg	340	80.	1
Bromomethane	ND		ug/kg	170	50.	1
Vinyl chloride	ND		ug/kg	86	29.	1
Chloroethane	ND		ug/kg	170	39.	1
1,1-Dichloroethene	ND		ug/kg	86	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	130	12.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	43	12.	1
1,2-Dichlorobenzene	ND		ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	13.	1
1,4-Dichlorobenzene	ND		ug/kg	170	15.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	48	J	ug/kg	170	48.	1
o-Xylene	ND		ug/kg	86	25.	1
Xylenes, Total	48	J	ug/kg	86	25.	1
cis-1,2-Dichloroethene	ND		ug/kg	86	15.	1
1,2-Dichloroethene, Total	ND		ug/kg	86	12.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	86	17.	1
Dichlorodifluoromethane	ND		ug/kg	860	79.	1
Acetone	ND		ug/kg	860	420	1
Carbon disulfide	ND		ug/kg	860	390	1
2-Butanone	ND		ug/kg	860	190	1
Vinyl acetate	ND		ug/kg	860	180	1
4-Methyl-2-pentanone	ND		ug/kg	860	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	860	100	1
Bromochloromethane	ND		ug/kg	170	18.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	86	24.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	43	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	81	J	ug/kg	86	14.	1
sec-Butylbenzene	27	J	ug/kg	86	12.	1
tert-Butylbenzene	ND		ug/kg	170	10.	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	86.	1
Hexachlorobutadiene	ND		ug/kg	340	14.	1
Isopropylbenzene	ND		ug/kg	86	9.4	1
p-Isopropyltoluene	50	J	ug/kg	86	9.4	1
Naphthalene	460		ug/kg	340	56.	1
Acrylonitrile	ND		ug/kg	340	99.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	22	J	ug/kg	86	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	73	J	ug/kg	170	17.	1
1,2,4-Trimethylbenzene	260		ug/kg	170	29.	1
1,4-Dioxane	ND		ug/kg	6900	3000	1
p-Diethylbenzene	450		ug/kg	170	15.	1
p-Ethyltoluene	110	J	ug/kg	170	33.	1
1,2,4,5-Tetramethylbenzene	180		ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	29.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	430	120	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 Date Collected: 01/28/20 13:15
Client ID: SB03_0-1 Date Received: 01/28/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 11:58
Analyst: JC
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.8	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.14	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.58	0.22	1
Chlorobenzene	ND		ug/kg	0.58	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.80	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.58	0.19	1
Bromodichloromethane	ND		ug/kg	0.58	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.58	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.58	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.58	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.58	0.19	1
Benzene	ND		ug/kg	0.58	0.19	1
Toluene	ND		ug/kg	1.2	0.62	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.67	1
Vinyl chloride	ND		ug/kg	1.2	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.27	1
trans-1,2-Dichloroethene	0.30	J	ug/kg	1.7	0.16	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 Date Collected: 01/28/20 13:15

Client ID: SB03_0-1 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	0.58	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	0.76	J	ug/kg	1.2	0.33	1
Xylenes, Total	0.76	J	ug/kg	1.2	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	0.30	J	ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.2	0.22	1
Dichlorodifluoromethane	ND		ug/kg	12	1.0	1
Acetone	5.6	J	ug/kg	12	5.5	1
Carbon disulfide	ND		ug/kg	12	5.2	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.58	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.19	1
sec-Butylbenzene	0.35	J	ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.19	1
Isopropylbenzene	0.15	J	ug/kg	1.2	0.12	1
p-Isopropyltoluene	0.39	J	ug/kg	1.2	0.12	1
Naphthalene	17		ug/kg	4.6	0.75	1
Acrylonitrile	ND		ug/kg	4.6	1.3	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 Date Collected: 01/28/20 13:15

Client ID: SB03_0-1 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	9.8		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	10		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	92	40.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.20	1
p-Ethyltoluene	3.0		ug/kg	2.3	0.44	1
1,2,4,5-Tetramethylbenzene	2.5		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.39	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	100		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20
Client ID: SB04_4-5 Date Received: 01/28/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 12:23
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	0.31	J	ug/kg	1.6	0.15	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
1,2-Dichloroethene, Total	0.31	J	ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	88	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	100		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10
Client ID: SB05_8-9 Date Received: 01/28/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 12:48
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	4.2	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.27	1
Chloroform	ND		ug/kg	2.8	0.26	1
Carbon tetrachloride	ND		ug/kg	1.8	0.42	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.23	1
Dibromochloromethane	ND		ug/kg	1.8	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.49	1
Tetrachloroethene	ND		ug/kg	0.92	0.36	1
Chlorobenzene	ND		ug/kg	0.92	0.23	1
Trichlorofluoromethane	ND		ug/kg	7.4	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.47	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.31	1
Bromodichloromethane	ND		ug/kg	0.92	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.50	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.29	1
1,1-Dichloropropene	ND		ug/kg	0.92	0.29	1
Bromoform	ND		ug/kg	7.4	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.30	1
Benzene	ND		ug/kg	0.92	0.30	1
Toluene	ND		ug/kg	1.8	1.0	1
Ethylbenzene	1.1	J	ug/kg	1.8	0.26	1
Chloromethane	ND		ug/kg	7.4	1.7	1
Bromomethane	ND		ug/kg	3.7	1.1	1
Vinyl chloride	ND		ug/kg	1.8	0.62	1
Chloroethane	ND		ug/kg	3.7	0.83	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.44	1
trans-1,2-Dichloroethene	0.53	J	ug/kg	2.8	0.25	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	0.92	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	3.7	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	3.7	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	3.7	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.7	0.37	1
p/m-Xylene	4.8		ug/kg	3.7	1.0	1
o-Xylene	1.6	J	ug/kg	1.8	0.54	1
Xylenes, Total	6.4	J	ug/kg	1.8	0.54	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.32	1
1,2-Dichloroethene, Total	0.53	J	ug/kg	1.8	0.25	1
Dibromomethane	ND		ug/kg	3.7	0.44	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	18	1.7	1
Acetone	52		ug/kg	18	8.9	1
Carbon disulfide	ND		ug/kg	18	8.4	1
2-Butanone	4.1	J	ug/kg	18	4.1	1
Vinyl acetate	ND		ug/kg	18	4.0	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.7	0.23	1
2-Hexanone	ND		ug/kg	18	2.2	1
Bromochloromethane	ND		ug/kg	3.7	0.38	1
2,2-Dichloropropane	ND		ug/kg	3.7	0.37	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.51	1
1,3-Dichloropropane	ND		ug/kg	3.7	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.24	1
Bromobenzene	ND		ug/kg	3.7	0.27	1
n-Butylbenzene	ND		ug/kg	1.8	0.31	1
sec-Butylbenzene	ND		ug/kg	1.8	0.27	1
tert-Butylbenzene	ND		ug/kg	3.7	0.22	1
o-Chlorotoluene	ND		ug/kg	3.7	0.35	1
p-Chlorotoluene	ND		ug/kg	3.7	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.31	1
Isopropylbenzene	0.20	J	ug/kg	1.8	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.20	1
Naphthalene	53		ug/kg	7.4	1.2	1
Acrylonitrile	ND		ug/kg	7.4	2.1	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.8	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.7	0.59	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.7	0.50	1
1,3,5-Trimethylbenzene	0.61	J	ug/kg	3.7	0.36	1
1,2,4-Trimethylbenzene	1.1	J	ug/kg	3.7	0.62	1
1,4-Dioxane	ND		ug/kg	150	65.	1
p-Diethylbenzene	ND		ug/kg	3.7	0.33	1
p-Ethyltoluene	ND		ug/kg	3.7	0.71	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.35	1
Ethyl ether	ND		ug/kg	3.7	0.63	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.2	2.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	**45**	Q	70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 R
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/20 12:06
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.65	0.26	1
Chlorobenzene	ND		ug/kg	0.65	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.91	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.22	1
Bromodichloromethane	ND		ug/kg	0.65	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.65	0.21	1
1,1-Dichloropropene	ND		ug/kg	0.65	0.21	1
Bromoform	ND		ug/kg	5.2	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.22	1
Benzene	ND		ug/kg	0.65	0.22	1
Toluene	ND		ug/kg	1.3	0.71	1
Ethylbenzene	0.67	J	ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.2	1.2	1
Bromomethane	ND		ug/kg	2.6	0.76	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	0.50	J	ug/kg	2.0	0.18	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 R
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
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	0.65	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	2.9		ug/kg	2.6	0.73	1
o-Xylene	0.95	J	ug/kg	1.3	0.38	1
Xylenes, Total	3.9	J	ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
1,2-Dichloroethene, Total	0.50	J	ug/kg	1.3	0.18	1
Dibromomethane	ND		ug/kg	2.6	0.31	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	17		ug/kg	13	6.3	1
Carbon disulfide	ND		ug/kg	13	5.9	1
2-Butanone	ND		ug/kg	13	2.9	1
Vinyl acetate	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.17	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.27	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.19	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.25	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.9	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	20		ug/kg	5.2	0.85	1
Acrylonitrile	ND		ug/kg	5.2	1.5	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 R
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
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	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.42	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	0.44	J	ug/kg	2.6	0.44	1
1,4-Dioxane	ND		ug/kg	100	46.	1
p-Diethylbenzene	0.24	J	ug/kg	2.6	0.23	1
p-Ethyltoluene	ND		ug/kg	2.6	0.50	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.25	1
Ethyl ether	ND		ug/kg	2.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.5	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	**60**	Q	70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 13:13
Analyst: JC
Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	16	7.3	1
1,1-Dichloroethane	ND		ug/kg	3.2	0.46	1
Chloroform	ND		ug/kg	4.8	0.45	1
Carbon tetrachloride	ND		ug/kg	3.2	0.74	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.40	1
Dibromochloromethane	ND		ug/kg	3.2	0.45	1
1,1,2-Trichloroethane	ND		ug/kg	3.2	0.85	1
Tetrachloroethene	3.2		ug/kg	1.6	0.63	1
Chlorobenzene	ND		ug/kg	1.6	0.41	1
Trichlorofluoromethane	ND		ug/kg	13	2.2	1
1,2-Dichloroethane	ND		ug/kg	3.2	0.82	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.53	1
Bromodichloromethane	ND		ug/kg	1.6	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	3.2	0.87	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.50	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.50	1
1,1-Dichloropropene	ND		ug/kg	1.6	0.51	1
Bromoform	ND		ug/kg	13	0.79	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.53	1
Benzene	ND		ug/kg	1.6	0.53	1
Toluene	5.8		ug/kg	3.2	1.7	1
Ethylbenzene	2.1	J	ug/kg	3.2	0.45	1
Chloromethane	ND		ug/kg	13	3.0	1
Bromomethane	ND		ug/kg	6.4	1.9	1
Vinyl chloride	ND		ug/kg	3.2	1.1	1
Chloroethane	ND		ug/kg	6.4	1.4	1
1,1-Dichloroethene	ND		ug/kg	3.2	0.76	1
trans-1,2-Dichloroethene	1.2	J	ug/kg	4.8	0.44	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 Date Collected: 01/28/20 10:30

Client ID: SB08_7.5-8.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.6	0.44	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.46	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.47	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.55	1
Methyl tert butyl ether	ND		ug/kg	6.4	0.64	1
p/m-Xylene	7.8		ug/kg	6.4	1.8	1
o-Xylene	3.2		ug/kg	3.2	0.93	1
Xylenes, Total	11		ug/kg	3.2	0.93	1
cis-1,2-Dichloroethene	ND		ug/kg	3.2	0.56	1
1,2-Dichloroethene, Total	1.2	J	ug/kg	3.2	0.44	1
Dibromomethane	ND		ug/kg	6.4	0.76	1
Styrene	ND		ug/kg	3.2	0.63	1
Dichlorodifluoromethane	ND		ug/kg	32	2.9	1
Acetone	49		ug/kg	32	15.	1
Carbon disulfide	ND		ug/kg	32	14.	1
2-Butanone	ND		ug/kg	32	7.1	1
Vinyl acetate	ND		ug/kg	32	6.9	1
4-Methyl-2-pentanone	ND		ug/kg	32	4.1	1
1,2,3-Trichloropropane	ND		ug/kg	6.4	0.41	1
2-Hexanone	ND		ug/kg	32	3.8	1
Bromochloromethane	ND		ug/kg	6.4	0.66	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.65	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.89	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.53	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.42	1
Bromobenzene	ND		ug/kg	6.4	0.46	1
n-Butylbenzene	ND		ug/kg	3.2	0.53	1
sec-Butylbenzene	ND		ug/kg	3.2	0.47	1
tert-Butylbenzene	ND		ug/kg	6.4	0.38	1
o-Chlorotoluene	ND		ug/kg	6.4	0.61	1
p-Chlorotoluene	ND		ug/kg	6.4	0.34	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.6	3.2	1
Hexachlorobutadiene	ND		ug/kg	13	0.54	1
Isopropylbenzene	ND		ug/kg	3.2	0.35	1
p-Isopropyltoluene	ND		ug/kg	3.2	0.35	1
Naphthalene	9.7	J	ug/kg	13	2.1	1
Acrylonitrile	ND		ug/kg	13	3.7	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 Date Collected: 01/28/20 10:30

Client ID: SB08_7.5-8.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	3.2	0.55	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	1.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.87	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.62	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	1.1	1
1,4-Dioxane	ND		ug/kg	260	110	1
p-Diethylbenzene	ND		ug/kg	6.4	0.57	1
p-Ethyltoluene	ND		ug/kg	6.4	1.2	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.4	0.61	1
Ethyl ether	ND		ug/kg	6.4	1.1	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**140**	Q	70-130
Toluene-d8	**165**	Q	70-130
4-Bromofluorobenzene	**169**	Q	70-130
Dibromofluoromethane	**140**	Q	70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 R
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 14:53
Analyst: MKS
Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	15	7.0	1
1,1-Dichloroethane	ND		ug/kg	3.1	0.44	1
Chloroform	ND		ug/kg	4.6	0.43	1
Carbon tetrachloride	ND		ug/kg	3.1	0.70	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.38	1
Dibromochloromethane	ND		ug/kg	3.1	0.43	1
1,1,2-Trichloroethane	ND		ug/kg	3.1	0.82	1
Tetrachloroethene	1.4	J	ug/kg	1.5	0.60	1
Chlorobenzene	ND		ug/kg	1.5	0.39	1
Trichlorofluoromethane	ND		ug/kg	12	2.1	1
1,2-Dichloroethane	ND		ug/kg	3.1	0.79	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.51	1
Bromodichloromethane	ND		ug/kg	1.5	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	3.1	0.84	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.48	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.48	1
1,1-Dichloropropene	ND		ug/kg	1.5	0.49	1
Bromoform	ND		ug/kg	12	0.75	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.51	1
Benzene	ND		ug/kg	1.5	0.51	1
Toluene	2.9	J	ug/kg	3.1	1.7	1
Ethylbenzene	1.1	J	ug/kg	3.1	0.43	1
Chloromethane	ND		ug/kg	12	2.8	1
Bromomethane	ND		ug/kg	6.1	1.8	1
Vinyl chloride	ND		ug/kg	3.1	1.0	1
Chloroethane	ND		ug/kg	6.1	1.4	1
1,1-Dichloroethene	ND		ug/kg	3.1	0.73	1
trans-1,2-Dichloroethene	0.69	J	ug/kg	4.6	0.42	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 R
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
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	1.5	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.44	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.45	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.52	1
Methyl tert butyl ether	ND		ug/kg	6.1	0.62	1
p/m-Xylene	4.4	J	ug/kg	6.1	1.7	1
o-Xylene	1.5	J	ug/kg	3.1	0.89	1
Xylenes, Total	5.9	J	ug/kg	3.1	0.89	1
cis-1,2-Dichloroethene	ND		ug/kg	3.1	0.54	1
1,2-Dichloroethene, Total	0.69	J	ug/kg	3.1	0.42	1
Dibromomethane	ND		ug/kg	6.1	0.73	1
Styrene	ND		ug/kg	3.1	0.60	1
Dichlorodifluoromethane	ND		ug/kg	31	2.8	1
Acetone	56		ug/kg	31	15.	1
Carbon disulfide	ND		ug/kg	31	14.	1
2-Butanone	ND		ug/kg	31	6.8	1
Vinyl acetate	ND		ug/kg	31	6.6	1
4-Methyl-2-pentanone	ND		ug/kg	31	3.9	1
1,2,3-Trichloropropane	ND		ug/kg	6.1	0.39	1
2-Hexanone	ND		ug/kg	31	3.6	1
Bromochloromethane	ND		ug/kg	6.1	0.63	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.62	1
1,2-Dibromoethane	ND		ug/kg	3.1	0.85	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.51	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.40	1
Bromobenzene	ND		ug/kg	6.1	0.44	1
n-Butylbenzene	ND		ug/kg	3.1	0.51	1
sec-Butylbenzene	ND		ug/kg	3.1	0.45	1
tert-Butylbenzene	ND		ug/kg	6.1	0.36	1
o-Chlorotoluene	ND		ug/kg	6.1	0.58	1
p-Chlorotoluene	ND		ug/kg	6.1	0.33	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.2	3.0	1
Hexachlorobutadiene	ND		ug/kg	12	0.52	1
Isopropylbenzene	ND		ug/kg	3.1	0.33	1
p-Isopropyltoluene	ND		ug/kg	3.1	0.33	1
Naphthalene	ND		ug/kg	12	2.0	1
Acrylonitrile	ND		ug/kg	12	3.5	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 R
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
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	3.1	0.52	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.99	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.83	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.59	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1.0	1
1,4-Dioxane	ND		ug/kg	240	110	1
p-Diethylbenzene	ND		ug/kg	6.1	0.54	1
p-Ethyltoluene	ND		ug/kg	6.1	1.2	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.58	1
Ethyl ether	ND		ug/kg	6.1	1.0	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	15	4.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**134**	Q	70-130
Toluene-d8	**153**	Q	70-130
4-Bromofluorobenzene	**161**	Q	70-130
Dibromofluoromethane	**134**	Q	70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06
Client ID: SB09_1.5-2.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 14:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 13:38
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	0.45	J	ug/kg	0.70	0.27	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.97	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.23	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.81	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.63	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	0.37	J	ug/kg	2.1	0.19	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.78	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
1,2-Dichloroethene, Total	0.37	J	ug/kg	1.4	0.19	1
Dibromomethane	ND		ug/kg	2.8	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	ND		ug/kg	14	6.7	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.16	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	6.8		ug/kg	5.6	0.91	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
1,4-Dioxane	ND		ug/kg	110	49.	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	101		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 01/31/20 14:03
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.1	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.61	0.24	1
Chlorobenzene	ND		ug/kg	0.61	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.85	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.61	0.20	1
Bromodichloromethane	ND		ug/kg	0.61	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.61	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.61	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.61	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.61	0.20	1
Benzene	ND		ug/kg	0.61	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.1	1
Bromomethane	ND		ug/kg	2.4	0.71	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.4	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	0.27	J	ug/kg	1.8	0.17	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 Date Collected: 01/28/20 13:45

Client ID: SB10_2-3 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	0.61	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.25	1
p/m-Xylene	ND		ug/kg	2.4	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
1,2-Dichloroethene, Total	0.27	J	ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	16		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.61	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	2.8	J	ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 Date Collected: 01/28/20 13:45

Client ID: SB10_2-3 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.4	0.41	1
1,4-Dioxane	ND		ug/kg	98	43.	1
p-Diethylbenzene	ND		ug/kg	2.4	0.22	1
p-Ethyltoluene	ND		ug/kg	2.4	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	125		70-130
Dibromofluoromethane	103		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1335865-5					
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: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1335865-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02-07 Batch: WG1335865-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1336165-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1336165-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
1,2-Dichloroethene, Total	ND		ug/kg	50	6.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 01/31/20 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01 Batch: WG1336165-5					
p-Chlorotoluene	ND		ug/kg	100	5.4
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
1,4-Dioxane	ND		ug/kg	4000	1800
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1336346-5					
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: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1336346-5					
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	0.22	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1336346-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1335865-3 WG1335865-4								
Methylene chloride	94		84		70-130	11		30
1,1-Dichloroethane	104		90		70-130	14		30
Chloroform	100		87		70-130	14		30
Carbon tetrachloride	94		80		70-130	16		30
1,2-Dichloropropane	104		94		70-130	10		30
Dibromochloromethane	89		82		70-130	8		30
1,1,2-Trichloroethane	95		90		70-130	5		30
Tetrachloroethene	84		71		70-130	17		30
Chlorobenzene	88		78		70-130	12		30
Trichlorofluoromethane	87		72		70-139	19		30
1,2-Dichloroethane	98		90		70-130	9		30
1,1,1-Trichloroethane	99		84		70-130	16		30
Bromodichloromethane	99		90		70-130	10		30
trans-1,3-Dichloropropene	96		89		70-130	8		30
cis-1,3-Dichloropropene	103		93		70-130	10		30
1,1-Dichloropropene	98		83		70-130	17		30
Bromoform	84		80		70-130	5		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	100		87		70-130	14		30
Toluene	91		80		70-130	13		30
Ethylbenzene	92		81		70-130	13		30
Chloromethane	71		60		52-130	17		30
Bromomethane	73		61		57-147	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1335865-3 WG1335865-4								
Vinyl chloride	75		**63**	Q	67-130	17		30
Chloroethane	86		72		50-151	18		30
1,1-Dichloroethene	94		79		65-135	17		30
trans-1,2-Dichloroethene	97		82		70-130	17		30
Trichloroethene	99		85		70-130	15		30
1,2-Dichlorobenzene	83		78		70-130	6		30
1,3-Dichlorobenzene	84		76		70-130	10		30
1,4-Dichlorobenzene	83		76		70-130	9		30
Methyl tert butyl ether	98		92		66-130	6		30
p/m-Xylene	90		81		70-130	11		30
o-Xylene	90		80		70-130	12		30
cis-1,2-Dichloroethene	97		85		70-130	13		30
Dibromomethane	96		89		70-130	8		30
Styrene	91		82		70-130	10		30
Dichlorodifluoromethane	34		**28**	Q	30-146	19		30
Acetone	106		102		54-140	4		30
Carbon disulfide	88		73		59-130	19		30
2-Butanone	101		99		70-130	2		30
Vinyl acetate	109		102		70-130	7		30
4-Methyl-2-pentanone	100		96		70-130	4		30
1,2,3-Trichloropropane	95		91		68-130	4		30
2-Hexanone	99		98		70-130	1		30
Bromochloromethane	94		83		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1335865-3 WG1335865-4								
2,2-Dichloropropane	102		87		70-130	16		30
1,2-Dibromoethane	89		83		70-130	7		30
1,3-Dichloropropane	94		88		69-130	7		30
1,1,1,2-Tetrachloroethane	86		79		70-130	8		30
Bromobenzene	83		76		70-130	9		30
n-Butylbenzene	92		81		70-130	13		30
sec-Butylbenzene	90		80		70-130	12		30
tert-Butylbenzene	87		78		70-130	11		30
o-Chlorotoluene	93		84		70-130	10		30
p-Chlorotoluene	92		83		70-130	10		30
1,2-Dibromo-3-chloropropane	82		82		68-130	0		30
Hexachlorobutadiene	75		**66**	Q	67-130	13		30
Isopropylbenzene	92		81		70-130	13		30
p-Isopropyltoluene	88		78		70-130	12		30
Naphthalene	85		84		70-130	1		30
Acrylonitrile	111		106		70-130	5		30
n-Propylbenzene	94		84		70-130	11		30
1,2,3-Trichlorobenzene	82		78		70-130	5		30
1,2,4-Trichlorobenzene	83		76		70-130	9		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	91		83		70-130	9		30
1,4-Dioxane	121		121		65-136	0		30
p-Diethylbenzene	87		78		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02-07 Batch: WG1335865-3 WG1335865-4								
p-Ethyltoluene	92		82		70-130	11		30
1,2,4,5-Tetramethylbenzene	88		80		70-130	10		30
Ethyl ether	101		93		67-130	8		30
trans-1,4-Dichloro-2-butene	106		103		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1336165-3 WG1336165-4								
Methylene chloride	94		84		70-130	11		30
1,1-Dichloroethane	104		90		70-130	14		30
Chloroform	100		87		70-130	14		30
Carbon tetrachloride	94		80		70-130	16		30
1,2-Dichloropropane	104		94		70-130	10		30
Dibromochloromethane	89		82		70-130	8		30
1,1,2-Trichloroethane	95		90		70-130	5		30
Tetrachloroethene	84		71		70-130	17		30
Chlorobenzene	88		78		70-130	12		30
Trichlorofluoromethane	87		72		70-139	19		30
1,2-Dichloroethane	98		90		70-130	9		30
1,1,1-Trichloroethane	99		84		70-130	16		30
Bromodichloromethane	99		90		70-130	10		30
trans-1,3-Dichloropropene	96		89		70-130	8		30
cis-1,3-Dichloropropene	103		93		70-130	10		30
1,1-Dichloropropene	98		83		70-130	17		30
Bromoform	84		80		70-130	5		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	100		87		70-130	14		30
Toluene	91		80		70-130	13		30
Ethylbenzene	92		81		70-130	13		30
Chloromethane	71		60		52-130	17		30
Bromomethane	73		61		57-147	18		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1336165-3 WG1336165-4								
Vinyl chloride	75		**63**	Q	67-130	17		30
Chloroethane	86		72		50-151	18		30
1,1-Dichloroethene	94		79		65-135	17		30
trans-1,2-Dichloroethene	97		82		70-130	17		30
Trichloroethene	99		85		70-130	15		30
1,2-Dichlorobenzene	83		78		70-130	6		30
1,3-Dichlorobenzene	84		76		70-130	10		30
1,4-Dichlorobenzene	83		76		70-130	9		30
Methyl tert butyl ether	98		92		66-130	6		30
p/m-Xylene	90		81		70-130	11		30
o-Xylene	90		80		70-130	12		30
cis-1,2-Dichloroethene	97		85		70-130	13		30
Dibromomethane	96		89		70-130	8		30
Styrene	91		82		70-130	10		30
Dichlorodifluoromethane	34		**28**	Q	30-146	19		30
Acetone	106		102		54-140	4		30
Carbon disulfide	88		73		59-130	19		30
2-Butanone	101		99		70-130	2		30
Vinyl acetate	109		102		70-130	7		30
4-Methyl-2-pentanone	100		96		70-130	4		30
1,2,3-Trichloropropane	95		91		68-130	4		30
2-Hexanone	99		98		70-130	1		30
Bromochloromethane	94		83		70-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1336165-3 WG1336165-4								
2,2-Dichloropropane	102		87		70-130	16		30
1,2-Dibromoethane	89		83		70-130	7		30
1,3-Dichloropropane	94		88		69-130	7		30
1,1,1,2-Tetrachloroethane	86		79		70-130	8		30
Bromobenzene	83		76		70-130	9		30
n-Butylbenzene	92		81		70-130	13		30
sec-Butylbenzene	90		80		70-130	12		30
tert-Butylbenzene	87		78		70-130	11		30
o-Chlorotoluene	93		84		70-130	10		30
p-Chlorotoluene	92		83		70-130	10		30
1,2-Dibromo-3-chloropropane	82		82		68-130	0		30
Hexachlorobutadiene	75		**66**	Q	67-130	13		30
Isopropylbenzene	92		81		70-130	13		30
p-Isopropyltoluene	88		78		70-130	12		30
Naphthalene	85		84		70-130	1		30
Acrylonitrile	111		106		70-130	5		30
n-Propylbenzene	94		84		70-130	11		30
1,2,3-Trichlorobenzene	82		78		70-130	5		30
1,2,4-Trichlorobenzene	83		76		70-130	9		30
1,3,5-Trimethylbenzene	90		82		70-130	9		30
1,2,4-Trimethylbenzene	91		83		70-130	9		30
1,4-Dioxane	121		121		65-136	0		30
p-Diethylbenzene	87		78		70-130	11		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01 Batch: WG1336165-3 WG1336165-4								
p-Ethyltoluene	92		82		70-130	11		30
1,2,4,5-Tetramethylbenzene	88		80		70-130	10		30
Ethyl ether	101		93		67-130	8		30
trans-1,4-Dichloro-2-butene	106		103		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1336346-3 WG1336346-4								
Methylene chloride	103		101		70-130	2		30
1,1-Dichloroethane	101		101		70-130	0		30
Chloroform	99		99		70-130	0		30
Carbon tetrachloride	108		106		70-130	2		30
1,2-Dichloropropane	96		96		70-130	0		30
Dibromochloromethane	111		112		70-130	1		30
1,1,2-Trichloroethane	101		101		70-130	0		30
Tetrachloroethene	116		113		70-130	3		30
Chlorobenzene	100		99		70-130	1		30
Trichlorofluoromethane	78		78		70-139	0		30
1,2-Dichloroethane	99		100		70-130	1		30
1,1,1-Trichloroethane	102		102		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	94		96		70-130	2		30
1,1-Dichloropropene	95		94		70-130	1		30
Bromoform	110		112		70-130	2		30
1,1,2,2-Tetrachloroethane	93		93		70-130	0		30
Benzene	93		93		70-130	0		30
Toluene	98		98		70-130	0		30
Ethylbenzene	96		95		70-130	1		30
Chloromethane	113		108		52-130	5		30
Bromomethane	94		94		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1336346-3 WG1336346-4								
Vinyl chloride	91		88		67-130	3		30
Chloroethane	93		93		50-151	0		30
1,1-Dichloroethene	105		104		65-135	1		30
trans-1,2-Dichloroethene	104		102		70-130	2		30
Trichloroethene	99		99		70-130	0		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	97		98		66-130	1		30
p/m-Xylene	97		98		70-130	1		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	102		102		70-130	0		30
Dibromomethane	98		97		70-130	1		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	116		112		30-146	4		30
Acetone	117		102		54-140	14		30
Carbon disulfide	95		94		59-130	1		30
2-Butanone	92		90		70-130	2		30
Vinyl acetate	91		92		70-130	1		30
4-Methyl-2-pentanone	93		94		70-130	1		30
1,2,3-Trichloropropane	90		91		68-130	1		30
2-Hexanone	84		85		70-130	1		30
Bromochloromethane	108		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1336346-3 WG1336346-4								
2,2-Dichloropropane	97		96		70-130	1		30
1,2-Dibromoethane	104		105		70-130	1		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	106		107		70-130	1		30
Bromobenzene	106		105		70-130	1		30
n-Butylbenzene	95		95		70-130	0		30
sec-Butylbenzene	95		94		70-130	1		30
tert-Butylbenzene	97		96		70-130	1		30
o-Chlorotoluene	95		92		70-130	3		30
p-Chlorotoluene	96		96		70-130	0		30
1,2-Dibromo-3-chloropropane	103		105		68-130	2		30
Hexachlorobutadiene	122		122		67-130	0		30
Isopropylbenzene	95		94		70-130	1		30
p-Isopropyltoluene	98		98		70-130	0		30
Naphthalene	100		100		70-130	0		30
Acrylonitrile	108		106		70-130	2		30
n-Propylbenzene	94		93		70-130	1		30
1,2,3-Trichlorobenzene	116		115		70-130	1		30
1,2,4-Trichlorobenzene	118		118		70-130	0		30
1,3,5-Trimethylbenzene	97		96		70-130	1		30
1,2,4-Trimethylbenzene	98		98		70-130	0		30
1,4-Dioxane	110		107		65-136	3		30
p-Diethylbenzene	100		100		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1336346-3 WG1336346-4								
p-Ethyltoluene	98		97		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		30
Ethyl ether	84		83		67-130	1		30
trans-1,4-Dichloro-2-butene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	90		88		70-130
Dibromofluoromethane	104		103		70-130

SEMIVOLATILES

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01
Client ID: SB02_7-8
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 11:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/03/20 04:39
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	85	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	160	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	100	J	ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	49	J	ug/kg	110	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	62	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	31.	1
Chrysene	75	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	39	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	96	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	37	J	ug/kg	150	27.	1
Pyrene	80	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	440	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	220	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	19.	1
1,4-Dioxane	ND		ug/kg	29	8.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	16		10-136
4-Terphenyl-d14	75		18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 D
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 01:19
Analyst: ALS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2300		ug/kg	1600	210	10
1,2,4-Trichlorobenzene	ND		ug/kg	2000	230	10
Hexachlorobenzene	ND		ug/kg	1200	220	10
Bis(2-chloroethyl)ether	ND		ug/kg	1800	270	10
2-Chloronaphthalene	ND		ug/kg	2000	200	10
1,2-Dichlorobenzene	ND		ug/kg	2000	360	10
1,3-Dichlorobenzene	ND		ug/kg	2000	350	10
1,4-Dichlorobenzene	ND		ug/kg	2000	350	10
3,3'-Dichlorobenzidine	ND		ug/kg	2000	540	10
2,4-Dinitrotoluene	ND		ug/kg	2000	400	10
2,6-Dinitrotoluene	ND		ug/kg	2000	350	10
Fluoranthene	30000		ug/kg	1200	230	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2000	220	10
4-Bromophenyl phenyl ether	ND		ug/kg	2000	310	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2400	340	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2200	200	10
Hexachlorobutadiene	ND		ug/kg	2000	300	10
Hexachlorocyclopentadiene	ND		ug/kg	5800	1800	10
Hexachloroethane	ND		ug/kg	1600	330	10
Isophorone	ND		ug/kg	1800	260	10
Naphthalene	1400	J	ug/kg	2000	240	10
Nitrobenzene	ND		ug/kg	1800	300	10
NDPA/DPA	ND		ug/kg	1600	230	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2000	310	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2000	700	10
Butyl benzyl phthalate	ND		ug/kg	2000	510	10
Di-n-butylphthalate	ND		ug/kg	2000	380	10
Di-n-octylphthalate	ND		ug/kg	2000	690	10

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 D
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	2000	190	10
Dimethyl phthalate	ND		ug/kg	2000	420	10
Benzo(a)anthracene	12000		ug/kg	1200	230	10
Benzo(a)pyrene	12000		ug/kg	1600	490	10
Benzo(b)fluoranthene	15000		ug/kg	1200	340	10
Benzo(k)fluoranthene	4200		ug/kg	1200	320	10
Chrysene	12000		ug/kg	1200	210	10
Acenaphthylene	950	J	ug/kg	1600	310	10
Anthracene	5800		ug/kg	1200	390	10
Benzo(ghi)perylene	6700		ug/kg	1600	240	10
Fluorene	2300		ug/kg	2000	200	10
Phenanthrene	28000		ug/kg	1200	240	10
Dibenzo(a,h)anthracene	1600		ug/kg	1200	230	10
Indeno(1,2,3-cd)pyrene	7200		ug/kg	1600	280	10
Pyrene	26000		ug/kg	1200	200	10
Biphenyl	ND		ug/kg	4600	470	10
4-Chloroaniline	ND		ug/kg	2000	370	10
2-Nitroaniline	ND		ug/kg	2000	390	10
3-Nitroaniline	ND		ug/kg	2000	380	10
4-Nitroaniline	ND		ug/kg	2000	840	10
Dibenzofuran	1600	J	ug/kg	2000	190	10
2-Methylnaphthalene	710	J	ug/kg	2400	240	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2000	210	10
Acetophenone	ND		ug/kg	2000	250	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	380	10
p-Chloro-m-cresol	ND		ug/kg	2000	300	10
2-Chlorophenol	ND		ug/kg	2000	240	10
2,4-Dichlorophenol	ND		ug/kg	1800	320	10
2,4-Dimethylphenol	ND		ug/kg	2000	660	10
2-Nitrophenol	ND		ug/kg	4400	760	10
4-Nitrophenol	ND		ug/kg	2800	820	10
2,4-Dinitrophenol	ND		ug/kg	9700	940	10
4,6-Dinitro-o-cresol	ND		ug/kg	5200	970	10
Pentachlorophenol	ND		ug/kg	1600	440	10
Phenol	ND		ug/kg	2000	300	10
2-Methylphenol	ND		ug/kg	2000	310	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2900	320	10

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 D
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	2000	390	10
Benzoic Acid	ND		ug/kg	6500	2000	10
Benzyl Alcohol	ND		ug/kg	2000	620	10
Carbazole	3200		ug/kg	2000	200	10
1,4-Dioxane	ND		ug/kg	300	93.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	75		18-120

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03
Client ID: SB04_4-5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 15:20
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/03/20 01:36
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	150	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1
1,4-Dioxane	ND		ug/kg	27	8.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	80		18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/03/20 03:53
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	3300		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	91	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1700		ug/kg	110	21.	1
Benzo(a)pyrene	1700		ug/kg	150	46.	1
Benzo(b)fluoranthene	2400		ug/kg	110	32.	1
Benzo(k)fluoranthene	600		ug/kg	110	30.	1
Chrysene	1600		ug/kg	110	20.	1
Acenaphthylene	340		ug/kg	150	29.	1
Anthracene	460		ug/kg	110	37.	1
Benzo(ghi)perylene	1200		ug/kg	150	22.	1
Fluorene	150	J	ug/kg	190	18.	1
Phenanthrene	2000		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	260		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1300		ug/kg	150	26.	1
Pyrene	2900		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	87	J	ug/kg	190	18.	1
2-Methylnaphthalene	42	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	260		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**13**	Q	25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	10		10-136
4-Terphenyl-d14	78		18-120

Project Name: 326-350 ROCKAWAY AVENUE
Lab Number: L2003963
Project Number: 170610401
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 D2
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 14:02
Analyst: JG
Percent Solids: 41%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	170000		ug/kg	8000	2800	20

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 D
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 01:42
Analyst: ALS
Percent Solids: 41%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	3200	410	10
1,2,4-Trichlorobenzene	ND		ug/kg	4000	460	10
Hexachlorobenzene	ND		ug/kg	2400	450	10
Bis(2-chloroethyl)ether	ND		ug/kg	3600	540	10
2-Chloronaphthalene	ND		ug/kg	4000	400	10
1,2-Dichlorobenzene	ND		ug/kg	4000	720	10
1,3-Dichlorobenzene	ND		ug/kg	4000	680	10
1,4-Dichlorobenzene	ND		ug/kg	4000	700	10
3,3'-Dichlorobenzidine	ND		ug/kg	4000	1100	10
2,4-Dinitrotoluene	ND		ug/kg	4000	800	10
2,6-Dinitrotoluene	ND		ug/kg	4000	680	10
Fluoranthene	ND		ug/kg	2400	460	10
4-Chlorophenyl phenyl ether	ND		ug/kg	4000	430	10
4-Bromophenyl phenyl ether	ND		ug/kg	4000	610	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	4800	680	10
Bis(2-chloroethoxy)methane	ND		ug/kg	4300	400	10
Hexachlorobutadiene	ND		ug/kg	4000	580	10
Hexachlorocyclopentadiene	ND		ug/kg	11000	3600	10
Hexachloroethane	ND		ug/kg	3200	640	10
Isophorone	ND		ug/kg	3600	520	10
Naphthalene	ND		ug/kg	4000	480	10
Nitrobenzene	ND		ug/kg	3600	590	10
NDPA/DPA	ND		ug/kg	3200	450	10
n-Nitrosodi-n-propylamine	ND		ug/kg	4000	620	10
Bis(2-ethylhexyl)phthalate	160000	E	ug/kg	4000	1400	10
Butyl benzyl phthalate	ND		ug/kg	4000	1000	10
Di-n-butylphthalate	1000	J	ug/kg	4000	760	10
Di-n-octylphthalate	ND		ug/kg	4000	1400	10

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 D
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	4000	370	10
Dimethyl phthalate	ND		ug/kg	4000	840	10
Benzo(a)anthracene	ND		ug/kg	2400	450	10
Benzo(a)pyrene	ND		ug/kg	3200	970	10
Benzo(b)fluoranthene	ND		ug/kg	2400	670	10
Benzo(k)fluoranthene	ND		ug/kg	2400	640	10
Chrysene	ND		ug/kg	2400	410	10
Acenaphthylene	ND		ug/kg	3200	620	10
Anthracene	ND		ug/kg	2400	780	10
Benzo(ghi)perylene	ND		ug/kg	3200	470	10
Fluorene	ND		ug/kg	4000	390	10
Phenanthrene	ND		ug/kg	2400	480	10
Dibenzo(a,h)anthracene	ND		ug/kg	2400	460	10
Indeno(1,2,3-cd)pyrene	ND		ug/kg	3200	560	10
Pyrene	ND		ug/kg	2400	400	10
Biphenyl	ND		ug/kg	9100	920	10
4-Chloroaniline	ND		ug/kg	4000	720	10
2-Nitroaniline	ND		ug/kg	4000	770	10
3-Nitroaniline	ND		ug/kg	4000	750	10
4-Nitroaniline	ND		ug/kg	4000	1600	10
Dibenzofuran	ND		ug/kg	4000	380	10
2-Methylnaphthalene	ND		ug/kg	4800	480	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	4000	420	10
Acetophenone	ND		ug/kg	4000	490	10
2,4,6-Trichlorophenol	ND		ug/kg	2400	760	10
p-Chloro-m-cresol	ND		ug/kg	4000	590	10
2-Chlorophenol	ND		ug/kg	4000	470	10
2,4-Dichlorophenol	ND		ug/kg	3600	640	10
2,4-Dimethylphenol	ND		ug/kg	4000	1300	10
2-Nitrophenol	ND		ug/kg	8600	1500	10
4-Nitrophenol	ND		ug/kg	5600	1600	10
2,4-Dinitrophenol	ND		ug/kg	19000	1800	10
4,6-Dinitro-o-cresol	ND		ug/kg	10000	1900	10
Pentachlorophenol	ND		ug/kg	3200	880	10
Phenol	ND		ug/kg	4000	600	10
2-Methylphenol	ND		ug/kg	4000	620	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	5700	620	10

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 D
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	4000	760	10
Benzoic Acid	ND		ug/kg	13000	4000	10
Benzyl Alcohol	ND		ug/kg	4000	1200	10
Carbazole	ND		ug/kg	4000	390	10
1,4-Dioxane	ND		ug/kg	600	180	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	64		10-136
4-Terphenyl-d14	66		18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06
Client ID: SB09_1.5-2.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 14:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/03/20 00:50
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	84		18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 D
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 02:05
Analyst: ALS
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	580	J	ug/kg	740	96.	5
1,2,4-Trichlorobenzene	ND		ug/kg	930	110	5
Hexachlorobenzene	ND		ug/kg	560	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	840	130	5
2-Chloronaphthalene	ND		ug/kg	930	92.	5
1,2-Dichlorobenzene	ND		ug/kg	930	170	5
1,3-Dichlorobenzene	ND		ug/kg	930	160	5
1,4-Dichlorobenzene	ND		ug/kg	930	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	930	250	5
2,4-Dinitrotoluene	ND		ug/kg	930	190	5
2,6-Dinitrotoluene	ND		ug/kg	930	160	5
Fluoranthene	9800		ug/kg	560	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	930	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	930	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	93.	5
Hexachlorobutadiene	ND		ug/kg	930	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	840	5
Hexachloroethane	ND		ug/kg	740	150	5
Isophorone	ND		ug/kg	840	120	5
Naphthalene	260	J	ug/kg	930	110	5
Nitrobenzene	ND		ug/kg	840	140	5
NDPA/DPA	ND		ug/kg	740	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	930	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	930	320	5
Butyl benzyl phthalate	ND		ug/kg	930	230	5
Di-n-butylphthalate	ND		ug/kg	930	180	5
Di-n-octylphthalate	ND		ug/kg	930	320	5

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 D
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	930	86.	5
Dimethyl phthalate	ND		ug/kg	930	200	5
Benzo(a)anthracene	4800		ug/kg	560	100	5
Benzo(a)pyrene	4400		ug/kg	740	230	5
Benzo(b)fluoranthene	6000		ug/kg	560	160	5
Benzo(k)fluoranthene	1600		ug/kg	560	150	5
Chrysene	4200		ug/kg	560	97.	5
Acenaphthylene	570	J	ug/kg	740	140	5
Anthracene	1900		ug/kg	560	180	5
Benzo(ghi)perylene	2800		ug/kg	740	110	5
Fluorene	690	J	ug/kg	930	91.	5
Phenanthrene	6900		ug/kg	560	110	5
Dibenzo(a,h)anthracene	690		ug/kg	560	110	5
Indeno(1,2,3-cd)pyrene	3000		ug/kg	740	130	5
Pyrene	7900		ug/kg	560	93.	5
Biphenyl	ND		ug/kg	2100	220	5
4-Chloroaniline	ND		ug/kg	930	170	5
2-Nitroaniline	ND		ug/kg	930	180	5
3-Nitroaniline	ND		ug/kg	930	180	5
4-Nitroaniline	ND		ug/kg	930	380	5
Dibenzofuran	370	J	ug/kg	930	88.	5
2-Methylnaphthalene	150	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	930	97.	5
Acetophenone	ND		ug/kg	930	120	5
2,4,6-Trichlorophenol	ND		ug/kg	560	180	5
p-Chloro-m-cresol	ND		ug/kg	930	140	5
2-Chlorophenol	ND		ug/kg	930	110	5
2,4-Dichlorophenol	ND		ug/kg	840	150	5
2,4-Dimethylphenol	ND		ug/kg	930	310	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	430	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	740	200	5
Phenol	ND		ug/kg	930	140	5
2-Methylphenol	ND		ug/kg	930	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 D
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	930	180	5
Benzoic Acid	ND		ug/kg	3000	940	5
Benzyl Alcohol	ND		ug/kg	930	280	5
Carbazole	950		ug/kg	930	91.	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	72		18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 00:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1335647-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 00:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1335647-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	31.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	37.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 00:33
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 01/30/20 21:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1335647-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	49.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	24	7.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	97		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1335647-2 WG1335647-3								
Acenaphthene	88		84		31-137	5		50
1,2,4-Trichlorobenzene	80		75		38-107	6		50
Hexachlorobenzene	88		85		40-140	3		50
Bis(2-chloroethyl)ether	83		77		40-140	8		50
2-Chloronaphthalene	90		86		40-140	5		50
1,2-Dichlorobenzene	78		73		40-140	7		50
1,3-Dichlorobenzene	76		72		40-140	5		50
1,4-Dichlorobenzene	76		72		28-104	5		50
3,3'-Dichlorobenzidine	59		58		40-140	2		50
2,4-Dinitrotoluene	100		95		40-132	5		50
2,6-Dinitrotoluene	102		98		40-140	4		50
Fluoranthene	94		89		40-140	5		50
4-Chlorophenyl phenyl ether	91		86		40-140	6		50
4-Bromophenyl phenyl ether	93		89		40-140	4		50
Bis(2-chloroisopropyl)ether	79		75		40-140	5		50
Bis(2-chloroethoxy)methane	88		83		40-117	6		50
Hexachlorobutadiene	85		79		40-140	7		50
Hexachlorocyclopentadiene	93		90		40-140	3		50
Hexachloroethane	78		74		40-140	5		50
Isophorone	89		86		40-140	3		50
Naphthalene	82		78		40-140	5		50
Nitrobenzene	87		82		40-140	6		50
NDPA/DPA	95		90		36-157	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1335647-2 WG1335647-3								
n-Nitrosodi-n-propylamine	92		87		32-121	6		50
Bis(2-ethylhexyl)phthalate	95		92		40-140	3		50
Butyl benzyl phthalate	95		90		40-140	5		50
Di-n-butylphthalate	102		97		40-140	5		50
Di-n-octylphthalate	96		92		40-140	4		50
Diethyl phthalate	96		92		40-140	4		50
Dimethyl phthalate	94		91		40-140	3		50
Benzo(a)anthracene	91		88		40-140	3		50
Benzo(a)pyrene	95		90		40-140	5		50
Benzo(b)fluoranthene	98		94		40-140	4		50
Benzo(k)fluoranthene	90		87		40-140	3		50
Chrysene	86		84		40-140	2		50
Acenaphthylene	91		87		40-140	4		50
Anthracene	93		88		40-140	6		50
Benzo(ghi)perylene	90		84		40-140	7		50
Fluorene	92		87		40-140	6		50
Phenanthrene	89		84		40-140	6		50
Dibenzo(a,h)anthracene	93		88		40-140	6		50
Indeno(1,2,3-cd)pyrene	96		89		40-140	8		50
Pyrene	91		86		35-142	6		50
Biphenyl	88		84		37-127	5		50
4-Chloroaniline	92		86		40-140	7		50
2-Nitroaniline	96		92		47-134	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1335647-2 WG1335647-3								
3-Nitroaniline	72		70		26-129	3		50
4-Nitroaniline	94		90		41-125	4		50
Dibenzofuran	89		85		40-140	5		50
2-Methylnaphthalene	88		84		40-140	5		50
1,2,4,5-Tetrachlorobenzene	87		83		40-117	5		50
Acetophenone	86		81		14-144	6		50
2,4,6-Trichlorophenol	99		94		30-130	5		50
p-Chloro-m-cresol	101		96		26-103	5		50
2-Chlorophenol	87		82		25-102	6		50
2,4-Dichlorophenol	94		91		30-130	3		50
2,4-Dimethylphenol	94		87		30-130	8		50
2-Nitrophenol	92		87		30-130	6		50
4-Nitrophenol	102		97		11-114	5		50
2,4-Dinitrophenol	47		28		4-130	**51**	Q	50
4,6-Dinitro-o-cresol	90		80		10-130	12		50
Pentachlorophenol	86		78		17-109	10		50
Phenol	82		78		26-90	5		50
2-Methylphenol	91		85		30-130.	7		50
3-Methylphenol/4-Methylphenol	91		86		30-130	6		50
2,4,5-Trichlorophenol	97		92		30-130	5		50
Benzoic Acid	**0**	Q	**0**	Q	10-110	NC		50
Benzyl Alcohol	94		88		40-140	7		50
Carbazole	93		88		54-128	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1335647-2 WG1335647-3								
1,4-Dioxane	44		41		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		76		25-120
Phenol-d6	86		81		10-120
Nitrobenzene-d5	82		78		23-120
2-Fluorobiphenyl	82		78		30-120
2,4,6-Tribromophenol	92		88		10-136
4-Terphenyl-d14	95		90		18-120

PCBS

Project Name: 326-350 ROCKAWAY AVENUE
Lab Number: L2003963
Project Number: 170610401
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01
Client ID: SB02_7-8
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 11:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 13:40
Analyst: AWS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.7	3.44	1	A
Aroclor 1221	ND		ug/kg	38.7	3.88	1	A
Aroclor 1232	ND		ug/kg	38.7	8.21	1	A
Aroclor 1242	ND		ug/kg	38.7	5.22	1	A
Aroclor 1248	ND		ug/kg	38.7	5.81	1	A
Aroclor 1254	ND		ug/kg	38.7	4.23	1	A
Aroclor 1260	ND		ug/kg	38.7	7.15	1	A
Aroclor 1262	ND		ug/kg	38.7	4.92	1	A
Aroclor 1268	ND		ug/kg	38.7	4.01	1	A
PCBs, Total	ND		ug/kg	38.7	3.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 13:52
Analyst: AWS
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.6	3.52	1	A
Aroclor 1221	ND		ug/kg	39.6	3.97	1	A
Aroclor 1232	ND		ug/kg	39.6	8.40	1	A
Aroclor 1242	ND		ug/kg	39.6	5.34	1	A
Aroclor 1248	ND		ug/kg	39.6	5.94	1	A
Aroclor 1254	ND		ug/kg	39.6	4.33	1	A
Aroclor 1260	ND		ug/kg	39.6	7.32	1	A
Aroclor 1262	ND		ug/kg	39.6	5.03	1	A
Aroclor 1268	5.98	J	ug/kg	39.6	4.10	1	B
PCBs, Total	5.98	J	ug/kg	39.6	3.52	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03
Client ID: SB04_4-5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 15:20
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 14:04
Analyst: AWS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 14:16
Analyst: AWS
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.75	1	A
Aroclor 1232	ND		ug/kg	37.4	7.93	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.61	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	ND		ug/kg	37.4	6.92	1	B
Aroclor 1262	ND		ug/kg	37.4	4.75	1	A
Aroclor 1268	ND		ug/kg	37.4	3.88	1	A
PCBs, Total	ND		ug/kg	37.4	3.32	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 14:28
Analyst: AWS
Percent Solids: 41%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	80.8	7.17	1	A
Aroclor 1221	ND		ug/kg	80.8	8.09	1	A
Aroclor 1232	ND		ug/kg	80.8	17.1	1	A
Aroclor 1242	ND		ug/kg	80.8	10.9	1	A
Aroclor 1248	ND		ug/kg	80.8	12.1	1	A
Aroclor 1254	22.4	J	ug/kg	80.8	8.84	1	A
Aroclor 1260	ND		ug/kg	80.8	14.9	1	A
Aroclor 1262	ND		ug/kg	80.8	10.2	1	A
Aroclor 1268	ND		ug/kg	80.8	8.37	1	A
PCBs, Total	22.4	J	ug/kg	80.8	7.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06
Client ID: SB09_1.5-2.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 14:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 14:39
Analyst: AWS
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	3.28	1	A
Aroclor 1221	ND		ug/kg	36.9	3.70	1	A
Aroclor 1232	ND		ug/kg	36.9	7.82	1	A
Aroclor 1242	ND		ug/kg	36.9	4.97	1	A
Aroclor 1248	ND		ug/kg	36.9	5.53	1	A
Aroclor 1254	ND		ug/kg	36.9	4.04	1	A
Aroclor 1260	ND		ug/kg	36.9	6.82	1	A
Aroclor 1262	ND		ug/kg	36.9	4.68	1	A
Aroclor 1268	ND		ug/kg	36.9	3.82	1	A
PCBs, Total	ND		ug/kg	36.9	3.28	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/02/20 14:51
Analyst: AWS
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:06
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	3.32	1	A
Aroclor 1221	ND		ug/kg	37.4	3.74	1	A
Aroclor 1232	ND		ug/kg	37.4	7.92	1	A
Aroclor 1242	ND		ug/kg	37.4	5.04	1	A
Aroclor 1248	ND		ug/kg	37.4	5.60	1	A
Aroclor 1254	ND		ug/kg	37.4	4.09	1	A
Aroclor 1260	19.8	J	ug/kg	37.4	6.90	1	B
Aroclor 1262	ND		ug/kg	37.4	4.74	1	A
Aroclor 1268	11.8	J	ug/kg	37.4	3.87	1	A
PCBs, Total	31.6	J	ug/kg	37.4	3.32	1	B

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	58		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/02/20 17:01
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:05
Cleanup Method: EPA 3665A
Cleanup Date: 01/30/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1335169-1						
Aroclor 1016	ND		ug/kg	32.5	2.89	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.90	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.88	A
Aroclor 1254	ND		ug/kg	32.5	3.56	A
Aroclor 1260	ND		ug/kg	32.5	6.01	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.37	A
PCBs, Total	ND		ug/kg	32.5	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1335169-2 WG1335169-3									
Aroclor 1016	71		78		40-140	9		50	A
Aroclor 1260	55		64		40-140	15		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		80		30-150	A
Decachlorobiphenyl	60		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		80		30-150	B
Decachlorobiphenyl	64		71		30-150	B

PESTICIDES

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01
Client ID: SB02_7-8
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 11:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:24
Analyst: SL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:10
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.361	1	A
Lindane	ND		ug/kg	0.768	0.344	1	A
Alpha-BHC	ND		ug/kg	0.768	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.699	1	A
Heptachlor	ND		ug/kg	0.922	0.413	1	A
Aldrin	ND		ug/kg	1.84	0.649	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.768	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.807	1	A
Endrin ketone	ND		ug/kg	1.84	0.475	1	A
Dieldrin	ND		ug/kg	1.15	0.576	1	A
4,4'-DDE	ND		ug/kg	1.84	0.426	1	A
4,4'-DDD	ND		ug/kg	1.84	0.658	1	A
4,4'-DDT	ND		ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.436	1	A
Endosulfan II	ND		ug/kg	1.84	0.616	1	A
Endosulfan sulfate	ND		ug/kg	0.768	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.68	1	A
cis-Chlordane	ND		ug/kg	2.30	0.642	1	A
trans-Chlordane	ND		ug/kg	2.30	0.609	1	A
Chlordane	ND		ug/kg	15.4	6.11	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:34
Analyst: SL
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:11
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.90	0.373	1	A
Lindane	ND		ug/kg	0.793	0.355	1	A
Alpha-BHC	ND		ug/kg	0.793	0.225	1	A
Beta-BHC	ND		ug/kg	1.90	0.722	1	A
Heptachlor	ND		ug/kg	0.952	0.427	1	A
Aldrin	ND		ug/kg	1.90	0.670	1	A
Heptachlor epoxide	ND		ug/kg	3.57	1.07	1	A
Endrin	ND		ug/kg	0.793	0.325	1	A
Endrin aldehyde	ND		ug/kg	2.38	0.833	1	A
Endrin ketone	ND		ug/kg	1.90	0.490	1	A
Dieldrin	ND		ug/kg	1.19	0.595	1	A
4,4'-DDE	ND		ug/kg	1.90	0.440	1	A
4,4'-DDD	ND		ug/kg	1.90	0.679	1	A
4,4'-DDT	ND		ug/kg	3.57	1.53	1	A
Endosulfan I	ND		ug/kg	1.90	0.450	1	A
Endosulfan II	ND		ug/kg	1.90	0.636	1	A
Endosulfan sulfate	ND		ug/kg	0.793	0.378	1	A
Methoxychlor	ND		ug/kg	3.57	1.11	1	A
Toxaphene	ND		ug/kg	35.7	10.0	1	A
cis-Chlordane	ND		ug/kg	2.38	0.663	1	A
trans-Chlordane	ND		ug/kg	2.38	0.628	1	A
Chlordane	ND		ug/kg	15.9	6.31	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 Date Collected: 01/28/20 13:15

Client ID: SB03_0-1 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	67		30-150	A
Decachlorobiphenyl	150		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	**277**	Q	30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03
Client ID: SB04_4-5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 15:20
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:44
Analyst: SL
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:12
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.735	0.329	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.882	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	ND		ug/kg	0.735	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	0.524	J	ug/kg	1.76	0.408	1	B
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	B
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.582	1	A
Chlordane	ND		ug/kg	14.7	5.85	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	66		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:10
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:53
Analyst: SL
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:13
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.619	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.988	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.769	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	0.634	J	ug/kg	1.76	0.406	1	B
4,4'-DDD	ND		ug/kg	1.76	0.627	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	ND		ug/kg	2.20	0.612	1	A
trans-Chlordane	ND		ug/kg	2.20	0.580	1	A
Chlordane	ND		ug/kg	14.6	5.82	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/04/20 10:18
Analyst: BM
Percent Solids: 41%

Extraction Method: EPA 3546
Extraction Date: 02/04/20 00:25
Cleanup Method: EPA 3620B
Cleanup Date: 02/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	3.87	0.758	1	A
Lindane	ND		ug/kg	1.61	0.721	1	A
Alpha-BHC	ND		ug/kg	1.61	0.458	1	A
Beta-BHC	ND		ug/kg	3.87	1.47	1	A
Heptachlor	ND		ug/kg	1.93	0.867	1	A
Aldrin	ND		ug/kg	3.87	1.36	1	A
Heptachlor epoxide	ND		ug/kg	7.26	2.18	1	B
Endrin	ND		ug/kg	1.61	0.661	1	A
Endrin aldehyde	ND		ug/kg	4.84	1.69	1	A
Endrin ketone	ND		ug/kg	3.87	0.996	1	A
Dieldrin	ND		ug/kg	2.42	1.21	1	A
4,4'-DDE	2.71	J	ug/kg	3.87	0.895	1	A
4,4'-DDD	1.72	J	ug/kg	3.87	1.38	1	A
4,4'-DDT	11.0		ug/kg	7.26	3.11	1	B
Endosulfan I	ND		ug/kg	3.87	0.914	1	A
Endosulfan II	ND		ug/kg	3.87	1.29	1	A
Endosulfan sulfate	ND		ug/kg	1.61	0.767	1	A
Methoxychlor	ND		ug/kg	7.26	2.26	1	A
Toxaphene	ND		ug/kg	72.6	20.3	1	A
cis-Chlordane	ND		ug/kg	4.84	1.35	1	B
trans-Chlordane	2.04	JIP	ug/kg	4.84	1.28	1	A
Chlordane	ND		ug/kg	32.2	12.8	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 Date Collected: 01/28/20 10:30

Client ID: SB08_7.5-8.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06
Client ID: SB09_1.5-2.5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 14:15
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 15:13
Analyst: SL
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:14
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.725	0.324	1	A
Alpha-BHC	ND		ug/kg	0.725	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.870	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.979	1	A
Endrin	ND		ug/kg	0.725	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	ND		ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.621	1	A
4,4'-DDT	ND		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.02	1	A
Toxaphene	ND		ug/kg	32.6	9.14	1	A
cis-Chlordane	ND		ug/kg	2.18	0.606	1	A
trans-Chlordane	ND		ug/kg	2.18	0.574	1	A
Chlordane	ND		ug/kg	14.5	5.76	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 01/31/20 15:23
Analyst: SL
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 01/29/20 22:15
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.735	0.329	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.882	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.992	1	A
Endrin	ND		ug/kg	0.735	0.301	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	3.89		ug/kg	1.10	0.551	1	A
4,4'-DDE	2.91	P	ug/kg	1.76	0.408	1	A
4,4'-DDD	1.88		ug/kg	1.76	0.629	1	B
4,4'-DDT	22.8		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	11.8		ug/kg	2.20	0.614	1	A
trans-Chlordane	8.83	IP	ug/kg	2.20	0.582	1	A
Chlordane	ND		ug/kg	14.7	5.84	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 Date Collected: 01/28/20 13:45

Client ID: SB10_2-3 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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	66		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	**159**	Q	30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:43
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:49
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,06-07 Batch: WG1335181-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.6	5.03	A

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/31/20 14:43
Analyst: SL

Extraction Method: EPA 3546
Extraction Date: 01/29/20 21:49
Cleanup Method: EPA 3620B
Cleanup Date: 01/30/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-04,06-07 Batch: WG1335181-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/04/20 09:40
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 02/04/20 00:23
Cleanup Method: EPA 3620B
Cleanup Date: 02/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1336741-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.659	0.295	A
Alpha-BHC	ND		ug/kg	0.659	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.600	A
Heptachlor	ND		ug/kg	0.791	0.355	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.97	0.890	A
Endrin	ND		ug/kg	0.659	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.692	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.989	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.97	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.529	A
Endosulfan sulfate	ND		ug/kg	0.659	0.314	A
Methoxychlor	ND		ug/kg	2.97	0.923	A
Toxaphene	ND		ug/kg	29.7	8.30	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	13.2	5.24	A

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/04/20 09:40
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 02/04/20 00:23
Cleanup Method: EPA 3620B
Cleanup Date: 02/04/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1336741-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG1335181-2 WG1335181-3									
Delta-BHC	105		108		30-150	3		30	A
Lindane	96		99		30-150	3		30	A
Alpha-BHC	99		101		30-150	2		30	A
Beta-BHC	92		94		30-150	2		30	A
Heptachlor	89		93		30-150	4		30	A
Aldrin	92		96		30-150	4		30	A
Heptachlor epoxide	92		95		30-150	3		30	A
Endrin	95		99		30-150	4		30	A
Endrin aldehyde	47		47		30-150	0		30	A
Endrin ketone	86		84		30-150	2		30	A
Dieldrin	98		102		30-150	4		30	A
4,4'-DDE	93		97		30-150	4		30	A
4,4'-DDD	93		96		30-150	3		30	A
4,4'-DDT	90		94		30-150	4		30	A
Endosulfan I	88		91		30-150	3		30	A
Endosulfan II	89		90		30-150	1		30	A
Endosulfan sulfate	59		60		30-150	2		30	A
Methoxychlor	80		82		30-150	2		30	A
cis-Chlordane	84		87		30-150	4		30	A
trans-Chlordane	90		93		30-150	3		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG1335181-2 WG1335181-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		76		30-150	A
Decachlorobiphenyl	59		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		83		30-150	B
Decachlorobiphenyl	67		70		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1336741-2 WG1336741-3									
Delta-BHC	88		94		30-150	7		30	A
Lindane	86		91		30-150	6		30	A
Alpha-BHC	93		98		30-150	5		30	A
Beta-BHC	78		87		30-150	11		30	A
Heptachlor	87		95		30-150	9		30	A
Aldrin	88		93		30-150	6		30	A
Heptachlor epoxide	88		95		30-150	8		30	A
Endrin	91		99		30-150	8		30	A
Endrin aldehyde	49		60		30-150	20		30	A
Endrin ketone	66		80		30-150	19		30	A
Dieldrin	91		99		30-150	8		30	A
4,4'-DDE	87		95		30-150	9		30	A
4,4'-DDD	86		95		30-150	10		30	A
4,4'-DDT	92		102		30-150	10		30	A
Endosulfan I	81		88		30-150	8		30	A
Endosulfan II	82		91		30-150	10		30	A
Endosulfan sulfate	43		56		30-150	26		30	A
Methoxychlor	93		105		30-150	12		30	A
cis-Chlordane	78		84		30-150	7		30	A
trans-Chlordane	80		88		30-150	10		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1336741-2 WG1336741-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		78		30-150	A
Decachlorobiphenyl	75		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		94		30-150	B
Decachlorobiphenyl	82		89		30-150	B

METALS

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01 Date Collected: 01/28/20 11:45

Client ID: SB02_7-8 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5820		mg/kg	9.02	2.44	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Antimony, Total	6.00		mg/kg	4.51	0.343	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Arsenic, Total	10.2		mg/kg	0.902	0.188	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Barium, Total	611		mg/kg	0.902	0.157	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Beryllium, Total	0.216	J	mg/kg	0.451	0.030	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Cadmium, Total	2.64		mg/kg	0.902	0.088	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Calcium, Total	47300		mg/kg	45.1	15.8	10	01/29/20 19:14	01/31/20 21:43	EPA 3050B	1,6010D	LC
Chromium, Total	47.8		mg/kg	0.902	0.087	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Cobalt, Total	5.42		mg/kg	1.80	0.150	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Copper, Total	97.0		mg/kg	0.902	0.233	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Iron, Total	45100		mg/kg	4.51	0.814	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Lead, Total	197		mg/kg	4.51	0.242	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Magnesium, Total	2850		mg/kg	9.02	1.39	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Manganese, Total	277		mg/kg	0.902	0.143	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Mercury, Total	0.823		mg/kg	0.073	0.048	1	01/29/20 07:45	01/29/20 11:53	EPA 7471B	1,7471B	GD
Nickel, Total	26.8		mg/kg	2.26	0.218	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Potassium, Total	665		mg/kg	226	13.0	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Selenium, Total	0.704	J	mg/kg	1.80	0.233	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.902	0.255	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Sodium, Total	251		mg/kg	180	2.84	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.80	0.284	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Vanadium, Total	15.5		mg/kg	0.902	0.183	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC
Zinc, Total	1100		mg/kg	4.51	0.264	2	01/29/20 19:14	01/31/20 18:26	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02 Date Collected: 01/28/20 13:15

Client ID: SB03_0-1 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7440		mg/kg	9.56	2.58	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.78	0.363	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Arsenic, Total	5.49		mg/kg	0.956	0.199	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Barium, Total	167		mg/kg	0.956	0.166	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Beryllium, Total	0.201	J	mg/kg	0.478	0.032	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Cadmium, Total	0.516	J	mg/kg	0.956	0.094	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Calcium, Total	33900		mg/kg	9.56	3.34	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Chromium, Total	12.8		mg/kg	0.956	0.092	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Cobalt, Total	5.12		mg/kg	1.91	0.159	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Copper, Total	19.1		mg/kg	0.956	0.247	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Iron, Total	12300		mg/kg	4.78	0.863	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Lead, Total	110		mg/kg	4.78	0.256	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Magnesium, Total	1860		mg/kg	9.56	1.47	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Manganese, Total	214		mg/kg	0.956	0.152	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.077	0.051	1	01/29/20 07:45	01/29/20 11:59	EPA 7471B	1,7471B	GD
Nickel, Total	9.30		mg/kg	2.39	0.231	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Potassium, Total	762		mg/kg	239	13.8	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Selenium, Total	0.287	J	mg/kg	1.91	0.247	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.956	0.270	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Sodium, Total	123	J	mg/kg	191	3.01	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.91	0.301	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Vanadium, Total	18.6		mg/kg	0.956	0.194	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC
Zinc, Total	250		mg/kg	4.78	0.280	2	01/29/20 19:14	01/31/20 18:44	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03 Date Collected: 01/28/20 15:20

Client ID: SB04_4-5 Date Received: 01/28/20

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											
Aluminum, Total	5000		mg/kg	8.40	2.27	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.20	0.319	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Arsenic, Total	4.54		mg/kg	0.840	0.175	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Barium, Total	42.0		mg/kg	0.840	0.146	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Beryllium, Total	0.218	J	mg/kg	0.420	0.028	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Cadmium, Total	0.176	J	mg/kg	0.840	0.082	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Calcium, Total	15800		mg/kg	8.40	2.94	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Chromium, Total	3.83		mg/kg	0.840	0.081	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Cobalt, Total	1.61	J	mg/kg	1.68	0.139	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Copper, Total	4.24		mg/kg	0.840	0.217	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Iron, Total	5190		mg/kg	4.20	0.759	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Lead, Total	6.54		mg/kg	4.20	0.225	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Magnesium, Total	4760		mg/kg	8.40	1.29	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Manganese, Total	291		mg/kg	0.840	0.134	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.070	0.046	1	01/29/20 07:45	01/29/20 12:00	EPA 7471B	1,7471B	GD
Nickel, Total	2.92		mg/kg	2.10	0.203	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Potassium, Total	505		mg/kg	210	12.1	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Selenium, Total	0.479	J	mg/kg	1.68	0.217	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.840	0.238	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Sodium, Total	480		mg/kg	168	2.65	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.68	0.265	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Vanadium, Total	9.40		mg/kg	0.840	0.170	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC
Zinc, Total	5.07		mg/kg	4.20	0.246	2	01/29/20 19:14	01/31/20 18:49	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04 Date Collected: 01/28/20 10:10

Client ID: SB05_8-9 Date Received: 01/28/20

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											
Aluminum, Total	4970		mg/kg	8.59	2.32	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Antimony, Total	1.31	J	mg/kg	4.30	0.326	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Arsenic, Total	6.41		mg/kg	0.859	0.179	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Barium, Total	96.5		mg/kg	0.859	0.150	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Beryllium, Total	0.206	J	mg/kg	0.430	0.028	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Cadmium, Total	0.825	J	mg/kg	0.859	0.084	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Calcium, Total	36800		mg/kg	8.59	3.01	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Chromium, Total	10.6		mg/kg	0.859	0.083	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Cobalt, Total	3.71		mg/kg	1.72	0.143	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Copper, Total	23.6		mg/kg	0.859	0.222	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Iron, Total	19700		mg/kg	4.30	0.776	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Lead, Total	85.8		mg/kg	4.30	0.230	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Magnesium, Total	1560		mg/kg	8.59	1.32	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Manganese, Total	224		mg/kg	0.859	0.137	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.072	0.047	1	01/29/20 07:45	01/29/20 12:02	EPA 7471B	1,7471B	GD
Nickel, Total	6.31		mg/kg	2.15	0.208	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Potassium, Total	418		mg/kg	215	12.4	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Selenium, Total	0.679	J	mg/kg	1.72	0.222	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.859	0.243	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Sodium, Total	194		mg/kg	172	2.71	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.72	0.271	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Vanadium, Total	21.6		mg/kg	0.859	0.174	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC
Zinc, Total	196		mg/kg	4.30	0.252	2	01/29/20 19:14	01/31/20 18:53	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05 Date Collected: 01/28/20 10:30

Client ID: SB08_7.5-8.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 41%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1680		mg/kg	19.4	5.23	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Antimony, Total	179		mg/kg	9.68	0.736	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Arsenic, Total	19.2		mg/kg	1.94	0.403	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Barium, Total	4300		mg/kg	1.94	0.337	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.968	0.064	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Cadmium, Total	8.05		mg/kg	1.94	0.190	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Calcium, Total	30900		mg/kg	19.4	6.77	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Chromium, Total	62.2		mg/kg	1.94	0.186	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Cobalt, Total	35.1		mg/kg	3.87	0.321	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Copper, Total	1350		mg/kg	1.94	0.499	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Iron, Total	216000		mg/kg	48.4	8.74	10	01/29/20 19:14	01/31/20 23:36	EPA 3050B	1,6010D	LC
Lead, Total	186		mg/kg	9.68	0.519	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Magnesium, Total	2030		mg/kg	19.4	2.98	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Manganese, Total	1740		mg/kg	1.94	0.308	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.153	0.100	1	01/29/20 07:45	01/29/20 12:04	EPA 7471B	1,7471B	GD
Nickel, Total	72.8		mg/kg	4.84	0.468	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Potassium, Total	833		mg/kg	484	27.9	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Selenium, Total	2.94	J	mg/kg	3.87	0.499	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.94	0.548	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Sodium, Total	1040		mg/kg	387	6.10	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	3.87	0.610	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Vanadium, Total	10.2		mg/kg	1.94	0.393	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC
Zinc, Total	5410		mg/kg	9.68	0.567	2	01/29/20 19:14	01/31/20 18:57	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06 Date Collected: 01/28/20 14:15

Client ID: SB09_1.5-2.5 Date Received: 01/28/20

Sample Location: BROOKLYN, NEW YORK 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											
Aluminum, Total	2080		mg/kg	8.81	2.38	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.40	0.335	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Arsenic, Total	6.03		mg/kg	0.881	0.183	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Barium, Total	33.5		mg/kg	0.881	0.153	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.440	0.029	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Cadmium, Total	0.123	J	mg/kg	0.881	0.086	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Calcium, Total	177000		mg/kg	88.1	30.8	20	01/29/20 19:14	02/01/20 00:17	EPA 3050B	1,6010D	LC
Chromium, Total	3.06		mg/kg	0.881	0.085	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Cobalt, Total	1.11	J	mg/kg	1.76	0.146	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Copper, Total	7.64		mg/kg	0.881	0.227	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Iron, Total	2900		mg/kg	4.40	0.796	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Lead, Total	73.8		mg/kg	4.40	0.236	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Magnesium, Total	4270		mg/kg	8.81	1.36	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Manganese, Total	88.6		mg/kg	0.881	0.140	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.072	0.047	1	01/29/20 07:45	01/29/20 12:06	EPA 7471B	1,7471B	GD
Nickel, Total	2.00	J	mg/kg	2.20	0.213	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Potassium, Total	228		mg/kg	220	12.7	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Selenium, Total	0.476	J	mg/kg	1.76	0.227	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.881	0.249	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Sodium, Total	153	J	mg/kg	176	2.78	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.76	0.278	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Vanadium, Total	5.08		mg/kg	0.881	0.179	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC
Zinc, Total	54.8		mg/kg	4.40	0.258	2	01/29/20 19:14	01/31/20 19:02	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07 Date Collected: 01/28/20 13:45

Client ID: SB10_2-3 Date Received: 01/28/20

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											
Aluminum, Total	5990		mg/kg	8.90	2.40	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Antimony, Total	0.579	J	mg/kg	4.45	0.338	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Arsenic, Total	5.20		mg/kg	0.890	0.185	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Barium, Total	341		mg/kg	0.890	0.155	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Beryllium, Total	0.329	J	mg/kg	0.445	0.029	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Cadmium, Total	0.881	J	mg/kg	0.890	0.087	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Calcium, Total	10100		mg/kg	8.90	3.12	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Chromium, Total	11.6		mg/kg	0.890	0.086	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Cobalt, Total	3.55		mg/kg	1.78	0.148	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Copper, Total	30.6		mg/kg	0.890	0.230	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Iron, Total	11400		mg/kg	4.45	0.804	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Lead, Total	248		mg/kg	4.45	0.238	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Magnesium, Total	1420		mg/kg	8.90	1.37	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Manganese, Total	225		mg/kg	0.890	0.142	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Mercury, Total	0.289		mg/kg	0.071	0.047	1	01/29/20 07:45	01/29/20 12:07	EPA 7471B	1,7471B	GD
Nickel, Total	7.54		mg/kg	2.22	0.215	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Potassium, Total	389		mg/kg	222	12.8	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Selenium, Total	0.303	J	mg/kg	1.78	0.230	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.890	0.252	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Sodium, Total	115	J	mg/kg	178	2.80	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.78	0.280	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Vanadium, Total	14.5		mg/kg	0.890	0.181	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC
Zinc, Total	245		mg/kg	4.45	0.261	2	01/29/20 19:14	01/31/20 19:06	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2003963

Project Number: 170610401 **Report Date:** 02/04/20

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): 01-07 Batch: WG1334851-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/29/20 07:45	01/29/20 11:18	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-07 Batch: WG1335126-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Iron, Total	1.50	J	mg/kg	2.00	0.361	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Selenium, Total	0.108	J	mg/kg	0.800	0.103	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Sodium, Total	1.63	J	mg/kg	80.0	1.26	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	01/29/20 19:14	01/31/20 17:52	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1334851-2 SRM Lot Number: D105-540								
Mercury, Total	77		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1335126-2 SRM Lot Number: D105-540					
Aluminum, Total	56	-	51-149	-	
Antimony, Total	124	-	19-249	-	
Arsenic, Total	89	-	70-130	-	
Barium, Total	89	-	75-125	-	
Beryllium, Total	99	-	75-125	-	
Cadmium, Total	95	-	75-125	-	
Calcium, Total	80	-	73-127	-	
Chromium, Total	80	-	70-130	-	
Cobalt, Total	88	-	75-125	-	
Copper, Total	85	-	75-125	-	
Iron, Total	60	-	38-162	-	
Lead, Total	82	-	71-128	-	
Magnesium, Total	74	-	63-137	-	
Manganese, Total	82	-	76-124	-	
Nickel, Total	91	-	70-131	-	
Potassium, Total	79	-	60-140	-	
Selenium, Total	88	-	63-137	-	
Silver, Total	78	-	69-131	-	
Sodium, Total	110	-	37-162	-	
Thallium, Total	92	-	68-132	-	
Vanadium, Total	78	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1335126-2 SRM Lot Number: D105-540					
Zinc, Total	83	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

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): 01-07 QC Batch ID: WG1334851-3 QC Sample: L2003849-02 Client ID: MS Sample												
Mercury, Total	0.099	0.144	0.228	89		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1335126-3 QC Sample: L2003852-02 Client ID: MS Sample										
Aluminum, Total	6900	182	7500	**329**	Q	-	-	75-125	-	20
Antimony, Total	ND	45.6	42.1	92		-	-	75-125	-	20
Arsenic, Total	5.55	11	17.9	113		-	-	75-125	-	20
Barium, Total	76.2	182	266	104		-	-	75-125	-	20
Beryllium, Total	0.303J	4.56	4.92	108		-	-	75-125	-	20
Cadmium, Total	0.704J	4.66	5.92	**127**	Q	-	-	75-125	-	20
Calcium, Total	27800	913	19100	**0**	Q	-	-	75-125	-	20
Chromium, Total	15.2	18.2	41.8	**146**	Q	-	-	75-125	-	20
Cobalt, Total	5.94	45.6	49.7	96		-	-	75-125	-	20
Copper, Total	44.8	22.8	69.3	107		-	-	75-125	-	20
Iron, Total	13600	91.3	31200	**19300**	Q	-	-	75-125	-	20
Lead, Total	118	46.6	155	79		-	-	75-125	-	20
Magnesium, Total	5180	913	4770	**0**	Q	-	-	75-125	-	20
Manganese, Total	235	45.6	338	**226**	Q	-	-	75-125	-	20
Nickel, Total	13.0	45.6	57.3	97		-	-	75-125	-	20
Potassium, Total	1280	913	2490	**132**	Q	-	-	75-125	-	20
Selenium, Total	ND	11	10.8	98		-	-	75-125	-	20
Silver, Total	ND	27.4	27.3	100		-	-	75-125	-	20
Sodium, Total	282	913	1860	**173**	Q	-	-	75-125	-	20
Thallium, Total	ND	11	9.24	84		-	-	75-125	-	20
Vanadium, Total	25.0	45.6	74.7	109		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1335126-3 QC Sample: L2003852-02 Client ID: MS Sample										
Zinc, Total	103	45.6	244	**309**	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1334851-4 QC Sample: L2003849-02 Client ID: DUP Sample						
Mercury, Total	0.099	0.102	mg/kg	3		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1335126-4 QC Sample: L2003852-02 Client ID: DUP Sample						
Aluminum, Total	6900	5050	mg/kg	**31**	Q	20
Antimony, Total	ND	0.552J	mg/kg	NC		20
Arsenic, Total	5.55	5.50	mg/kg	1		20
Barium, Total	76.2	53.8	mg/kg	**34**	Q	20
Beryllium, Total	0.303J	0.205J	mg/kg	NC		20
Cadmium, Total	0.704J	0.686J	mg/kg	NC		20
Calcium, Total	27800	22900	mg/kg	19		20
Chromium, Total	15.2	12.8	mg/kg	17		20
Cobalt, Total	5.94	4.51	mg/kg	**27**	Q	20
Copper, Total	44.8	37.2	mg/kg	19		20
Iron, Total	13600	15400	mg/kg	12		20
Lead, Total	118	90.8	mg/kg	**26**	Q	20
Magnesium, Total	5180	2650	mg/kg	**65**	Q	20
Manganese, Total	235	193	mg/kg	20		20
Nickel, Total	13.0	10.0	mg/kg	**26**	Q	20
Potassium, Total	1280	822	mg/kg	**44**	Q	20
Selenium, Total	ND	0.596J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	282	195	mg/kg	**36**	Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1335126-4 QC Sample: L2003852-02 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	25.0	17.3	mg/kg	**36**	Q	20
Zinc, Total	103	78.6	mg/kg	**27**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-01
Client ID: SB02_7-8
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil
Date Collected: 01/28/20 11:45
Date Received: 01/28/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-02
Client ID: SB03_0-1
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 13:15
Date Received: 01/28/20
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	80.9		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-03
Client ID: SB04_4-5
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/28/20 15:20
Date Received: 01/28/20
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	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-04
Client ID: SB05_8-9
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil
Date Collected: 01/28/20 10:10
Date Received: 01/28/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-05
Client ID: SB08_7.5-8.5
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/28/20 10:30
Date Received: 01/28/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	41.1		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-06
Client ID: SB09_1.5-2.5
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/28/20 14:15
Date Received: 01/28/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.1		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2003963
Report Date: 02/04/20

SAMPLE RESULTS

Lab ID: L2003963-07
Client ID: SB10_2-3
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/28/20 13:45
Date Received: 01/28/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	01/29/20 11:31	121,2540G	RI

Lab Duplicate Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2003963

Report Date: 02/04/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1334915-1 QC Sample: L2003809-01 Client ID: DUP Sample						
Solids, Total	81.8	79.6	%	3		20

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

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(*)
L2003963-01A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-01B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-01C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-01D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2003963-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2003963-01F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-02A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-02B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-02C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-02D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2003963-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2003963-02F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-03A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-03B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-03C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-03D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003963-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2003963-03F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-04A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-04B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-04C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-04D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2003963-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2003963-04F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-05A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-05B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-05C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-05D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2003963-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),HG-T(28),MG-TI(180),FE-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2003963-05F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-06A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-06B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-06C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-06D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2003963
Report Date: 02/04/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2003963-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2003963-06F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L2003963-07A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2003963-07B	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-07C	Vial water preserved	A	NA		3.8	Y	Absent	29-JAN-20 02:38	NYTCL-8260HLW(14)
L2003963-07D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L2003963-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2003963-07F	Glass 250ml/8oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2003963
Project Number:	170610401	**Report Date:**	02/04/20

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

ALPHA ANALYTICAL

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: 1/28/20

ALPHA Job #: L2003963

Client Information
Client: Langan Engineering
Address: 360 W 31st St, 8th Fl
New York, NY
Phone: (212) 479-5400
Fax: (212) 479-5444
Email: KSemon@langan.com

Project Information
Project Name: 326-350 Rockaway Avenue
Project Location: Brooklyn, New York
Project #: 170610401
(Use Project name as Project #) ☐
Project Manager: Kim Semon (Del Col)
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 +excel

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 also email results to datamanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs (Part 375)	TCL SVOCs (Part 375)	PCBs (Part 375)	Pesticides (Part 375)	TAL Metals (Part 375)	Total Bottle	Sample Specific Comments
03963-01	SB02-7-8	1-28-20	1145	Soil		X	X	X	X	X		
02	SB03-0-1		1315			X	X	X	X	X		
03	SB04-4-5		1520			X	X	X	X	X		
04	SB05-8-9		1010			X	X	X	X	X		
05	SB08-7.5-8.5		1030			X	X	X	X	X		
06	SB09-1.5-2.5		1415			X	X	X	X	X		
07	SB10-2-3		1345			X	X	X	X	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
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: 40mL Vials / Amb. Jars
Preservative: MeOH / H2O

Relinquished By:	Date/Time	Received By:	Date/Time
	1-28-20 1603		1/28/20 1603
	1/28/20 1930		1/28/20 20:00
	1/28/20 23:50		1/28/20 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.)

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

ANALYTICAL REPORT

Lab Number:	L2004186
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:	326-350 ROCKAWAY AVENUE
Project Number:	170610401
Report Date:	02/05/20

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: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2004186-01	SB01_16.5-17	SOIL	BROOKLYN, NEW YORK	01/29/20 10:50	01/29/20
L2004186-02	SB01_15-17	SOIL	BROOKLYN, NEW YORK	01/29/20 10:55	01/29/20
L2004186-03	SB06_5.5-6	SOIL	BROOKLYN, NEW YORK	01/29/20 14:31	01/29/20
L2004186-04	SB06_4-6	SOIL	BROOKLYN, NEW YORK	01/29/20 14:30	01/29/20
L2004186-05	SB07_16.5-17	SOIL	BROOKLYN, NEW YORK	01/29/20 14:16	01/29/20
L2004186-06	SB07_15-17	SOIL	BROOKLYN, NEW YORK	01/29/20 14:15	01/29/20

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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.

Volatile Organics

L2004186-03: The internal standard (IS) responses for chlorobenzene-d5 (41%) and 1,4-dichlorobenzene-d4 (17%) and the surrogate recovery for toluene-d8 (141%) were outside the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (32%). The results of both analyses are reported.

Semivolatile Organics

L2004186-04: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.
L2004186-04: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.
The WG1335725-3 LCSD recovery, associated with L2004186-02, -04, and -06, is below the acceptance criteria for benzoic acid (0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Pesticides

L2004186-04: The sample has elevated detection limits due to the dilution required by the sample matrix.
L2004186-04: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (630%, 3520%); however, the sample was not re-extracted due to coelution with obvious interferences.

Total Metals

L2004186-02, -04 and -06: The sample has elevated detection limits for all elements, with the exception of

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

Case Narrative (continued)

mercury, due to the dilution required by matrix interferences encountered during analysis.

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

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 02/05/20

ORGANICS

VOLATILES

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-01
Client ID: SB01_16.5-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 10:50
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/20 18:36
Analyst: AD
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	ND		ug/kg	0.56	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-01 Date Collected: 01/29/20 10:50

Client ID: SB01_16.5-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.15	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.72	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-01 Date Collected: 01/29/20 10:50

Client ID: SB01_16.5-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
1,4-Dioxane	ND		ug/kg	89	39.	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	103		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 Date Collected: 01/29/20 14:31
Client ID: SB06_5.5-6 Date Received: 01/29/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/20 19:02
Analyst: AD
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	4.9	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.31	1
Chloroform	ND		ug/kg	3.2	0.30	1
Carbon tetrachloride	ND		ug/kg	2.1	0.49	1
1,2-Dichloropropane	ND		ug/kg	2.1	0.27	1
Dibromochloromethane	ND		ug/kg	2.1	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.57	1
Tetrachloroethene	4.6		ug/kg	1.1	0.42	1
Chlorobenzene	ND		ug/kg	1.1	0.27	1
Trichlorofluoromethane	ND		ug/kg	8.5	1.5	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.36	1
Bromodichloromethane	ND		ug/kg	1.1	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	2.1	0.58	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.34	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.34	1
Bromoform	ND		ug/kg	8.5	0.52	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Benzene	0.71	J	ug/kg	1.1	0.35	1
Toluene	1.7	J	ug/kg	2.1	1.2	1
Ethylbenzene	ND		ug/kg	2.1	0.30	1
Chloromethane	ND		ug/kg	8.5	2.0	1
Bromomethane	ND		ug/kg	4.2	1.2	1
Vinyl chloride	ND		ug/kg	2.1	0.71	1
Chloroethane	ND		ug/kg	4.2	0.96	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.29	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 Date Collected: 01/29/20 14:31

Client ID: SB06_5.5-6 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	1.1	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.2	0.43	1
p/m-Xylene	ND		ug/kg	4.2	1.2	1
o-Xylene	ND		ug/kg	2.1	0.62	1
Xylenes, Total	ND		ug/kg	2.1	0.62	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	2.1	0.29	1
Dibromomethane	ND		ug/kg	4.2	0.51	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	21	1.9	1
Acetone	ND		ug/kg	21	10.	1
Carbon disulfide	ND		ug/kg	21	9.7	1
2-Butanone	ND		ug/kg	21	4.7	1
Vinyl acetate	ND		ug/kg	21	4.6	1
4-Methyl-2-pentanone	ND		ug/kg	21	2.7	1
1,2,3-Trichloropropane	ND		ug/kg	4.2	0.27	1
2-Hexanone	ND		ug/kg	21	2.5	1
Bromochloromethane	ND		ug/kg	4.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.43	1
1,2-Dibromoethane	ND		ug/kg	2.1	0.59	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.36	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.28	1
Bromobenzene	ND		ug/kg	4.2	0.31	1
n-Butylbenzene	ND		ug/kg	2.1	0.36	1
sec-Butylbenzene	ND		ug/kg	2.1	0.31	1
tert-Butylbenzene	ND		ug/kg	4.2	0.25	1
o-Chlorotoluene	ND		ug/kg	4.2	0.41	1
p-Chlorotoluene	ND		ug/kg	4.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	2.1	1
Hexachlorobutadiene	ND		ug/kg	8.5	0.36	1
Isopropylbenzene	ND		ug/kg	2.1	0.23	1
p-Isopropyltoluene	ND		ug/kg	2.1	0.23	1
Naphthalene	ND		ug/kg	8.5	1.4	1
Acrylonitrile	ND		ug/kg	8.5	2.4	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 Date Collected: 01/29/20 14:31

Client ID: SB06_5.5-6 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	2.1	0.36	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.68	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.58	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.41	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.71	1
1,4-Dioxane	ND		ug/kg	170	75.	1
p-Diethylbenzene	ND		ug/kg	4.2	0.38	1
p-Ethyltoluene	ND		ug/kg	4.2	0.82	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.41	1
Ethyl ether	ND		ug/kg	4.2	0.73	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	**141**	Q	70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	116		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 R
Client ID: SB06_5.5-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:31
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/03/20 08:32
Analyst: JC
Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	15	7.0	1
1,1-Dichloroethane	ND		ug/kg	3.0	0.44	1
Chloroform	2.5	J	ug/kg	4.6	0.42	1
Carbon tetrachloride	ND		ug/kg	3.0	0.70	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.38	1
Dibromochloromethane	ND		ug/kg	3.0	0.42	1
1,1,2-Trichloroethane	ND		ug/kg	3.0	0.81	1
Tetrachloroethene	1.1	J	ug/kg	1.5	0.60	1
Chlorobenzene	ND		ug/kg	1.5	0.39	1
Trichlorofluoromethane	ND		ug/kg	12	2.1	1
1,2-Dichloroethane	ND		ug/kg	3.0	0.78	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.51	1
Bromodichloromethane	ND		ug/kg	1.5	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	3.0	0.83	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.48	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.48	1
1,1-Dichloropropene	ND		ug/kg	1.5	0.48	1
Bromoform	ND		ug/kg	12	0.75	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.50	1
Benzene	ND		ug/kg	1.5	0.50	1
Toluene	ND		ug/kg	3.0	1.6	1
Ethylbenzene	ND		ug/kg	3.0	0.43	1
Chloromethane	ND		ug/kg	12	2.8	1
Bromomethane	ND		ug/kg	6.1	1.8	1
Vinyl chloride	ND		ug/kg	3.0	1.0	1
Chloroethane	ND		ug/kg	6.1	1.4	1
1,1-Dichloroethene	ND		ug/kg	3.0	0.72	1
trans-1,2-Dichloroethene	ND		ug/kg	4.6	0.42	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 R
Client ID: SB06_5.5-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:31
Date Received: 01/29/20
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	1.5	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.44	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.45	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.52	1
Methyl tert butyl ether	ND		ug/kg	6.1	0.61	1
p/m-Xylene	ND		ug/kg	6.1	1.7	1
o-Xylene	ND		ug/kg	3.0	0.88	1
Xylenes, Total	ND		ug/kg	3.0	0.88	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	0.53	1
1,2-Dichloroethene, Total	ND		ug/kg	3.0	0.42	1
Dibromomethane	ND		ug/kg	6.1	0.72	1
Styrene	ND		ug/kg	3.0	0.60	1
Dichlorodifluoromethane	ND		ug/kg	30	2.8	1
Acetone	ND		ug/kg	30	15.	1
Carbon disulfide	ND		ug/kg	30	14.	1
2-Butanone	ND		ug/kg	30	6.8	1
Vinyl acetate	ND		ug/kg	30	6.5	1
4-Methyl-2-pentanone	ND		ug/kg	30	3.9	1
1,2,3-Trichloropropane	ND		ug/kg	6.1	0.39	1
2-Hexanone	ND		ug/kg	30	3.6	1
Bromochloromethane	ND		ug/kg	6.1	0.62	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.61	1
1,2-Dibromoethane	ND		ug/kg	3.0	0.85	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.51	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.40	1
Bromobenzene	ND		ug/kg	6.1	0.44	1
n-Butylbenzene	ND		ug/kg	3.0	0.51	1
sec-Butylbenzene	ND		ug/kg	3.0	0.44	1
tert-Butylbenzene	ND		ug/kg	6.1	0.36	1
o-Chlorotoluene	ND		ug/kg	6.1	0.58	1
p-Chlorotoluene	ND		ug/kg	6.1	0.33	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.1	3.0	1
Hexachlorobutadiene	ND		ug/kg	12	0.51	1
Isopropylbenzene	ND		ug/kg	3.0	0.33	1
p-Isopropyltoluene	ND		ug/kg	3.0	0.33	1
Naphthalene	ND		ug/kg	12	2.0	1
Acrylonitrile	ND		ug/kg	12	3.5	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03 R Date Collected: 01/29/20 14:31

Client ID: SB06_5.5-6 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	3.0	0.52	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.98	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.83	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.59	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1.0	1
1,4-Dioxane	ND		ug/kg	240	110	1
p-Diethylbenzene	ND		ug/kg	6.1	0.54	1
p-Ethyltoluene	ND		ug/kg	6.1	1.2	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.58	1
Ethyl ether	ND		ug/kg	6.1	1.0	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	15	4.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	111		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-05 Date Collected: 01/29/20 14:16
Client ID: SB07_16.5-17 Date Received: 01/29/20
Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/02/20 19:28
Analyst: AD
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.5	2.1	1
1,1-Dichloroethane	ND		ug/kg	0.91	0.13	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.91	0.21	1
1,2-Dichloropropane	ND		ug/kg	0.91	0.11	1
Dibromochloromethane	ND		ug/kg	0.91	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.91	0.24	1
Tetrachloroethene	ND		ug/kg	0.45	0.18	1
Chlorobenzene	ND		ug/kg	0.45	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.6	0.63	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.45	0.15	1
Bromodichloromethane	ND		ug/kg	0.45	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	0.45	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.45	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.45	0.14	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.45	0.15	1
Benzene	ND		ug/kg	0.45	0.15	1
Toluene	ND		ug/kg	0.91	0.49	1
Ethylbenzene	ND		ug/kg	0.91	0.13	1
Chloromethane	ND		ug/kg	3.6	0.84	1
Bromomethane	ND		ug/kg	1.8	0.53	1
Vinyl chloride	ND		ug/kg	0.91	0.30	1
Chloroethane	ND		ug/kg	1.8	0.41	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.12	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-05 Date Collected: 01/29/20 14:16

Client ID: SB07_16.5-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	0.45	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,3-Dichlorobenzene	ND		ug/kg	1.8	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.18	1
p/m-Xylene	ND		ug/kg	1.8	0.51	1
o-Xylene	ND		ug/kg	0.91	0.26	1
Xylenes, Total	ND		ug/kg	0.91	0.26	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.12	1
Dibromomethane	ND		ug/kg	1.8	0.22	1
Styrene	ND		ug/kg	0.91	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.83	1
Acetone	ND		ug/kg	9.1	4.4	1
Carbon disulfide	ND		ug/kg	9.1	4.1	1
2-Butanone	ND		ug/kg	9.1	2.0	1
Vinyl acetate	ND		ug/kg	9.1	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.8	0.12	1
2-Hexanone	ND		ug/kg	9.1	1.1	1
Bromochloromethane	ND		ug/kg	1.8	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.8	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.91	0.25	1
1,3-Dichloropropane	ND		ug/kg	1.8	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.45	0.12	1
Bromobenzene	ND		ug/kg	1.8	0.13	1
n-Butylbenzene	ND		ug/kg	0.91	0.15	1
sec-Butylbenzene	ND		ug/kg	0.91	0.13	1
tert-Butylbenzene	ND		ug/kg	1.8	0.11	1
o-Chlorotoluene	ND		ug/kg	1.8	0.17	1
p-Chlorotoluene	ND		ug/kg	1.8	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.7	0.90	1
Hexachlorobutadiene	ND		ug/kg	3.6	0.15	1
Isopropylbenzene	ND		ug/kg	0.91	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.10	1
Naphthalene	ND		ug/kg	3.6	0.59	1
Acrylonitrile	ND		ug/kg	3.6	1.0	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-05 Date Collected: 01/29/20 14:16

Client ID: SB07_16.5-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	0.91	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.8	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.8	0.30	1
1,4-Dioxane	ND		ug/kg	72	32.	1
p-Diethylbenzene	ND		ug/kg	1.8	0.16	1
p-Ethyltoluene	ND		ug/kg	1.8	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.8	0.17	1
Ethyl ether	ND		ug/kg	1.8	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	105		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1336346-5					
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: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1336346-5					
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	0.22	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/02/20 11:39
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1336346-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	101		70-130

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/20 08:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1336589-5					
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: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/20 08:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1336589-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/03/20 08:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1336589-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1336346-3 WG1336346-4								
Methylene chloride	103		101		70-130	2		30
1,1-Dichloroethane	101		101		70-130	0		30
Chloroform	99		99		70-130	0		30
Carbon tetrachloride	108		106		70-130	2		30
1,2-Dichloropropane	96		96		70-130	0		30
Dibromochloromethane	111		112		70-130	1		30
1,1,2-Trichloroethane	101		101		70-130	0		30
Tetrachloroethene	116		113		70-130	3		30
Chlorobenzene	100		99		70-130	1		30
Trichlorofluoromethane	78		78		70-139	0		30
1,2-Dichloroethane	99		100		70-130	1		30
1,1,1-Trichloroethane	102		102		70-130	0		30
Bromodichloromethane	96		97		70-130	1		30
trans-1,3-Dichloropropene	100		100		70-130	0		30
cis-1,3-Dichloropropene	94		96		70-130	2		30
1,1-Dichloropropene	95		94		70-130	1		30
Bromoform	110		112		70-130	2		30
1,1,2,2-Tetrachloroethane	93		93		70-130	0		30
Benzene	93		93		70-130	0		30
Toluene	98		98		70-130	0		30
Ethylbenzene	96		95		70-130	1		30
Chloromethane	113		108		52-130	5		30
Bromomethane	94		94		57-147	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1336346-3 WG1336346-4								
Vinyl chloride	91		88		67-130	3		30
Chloroethane	93		93		50-151	0		30
1,1-Dichloroethene	105		104		65-135	1		30
trans-1,2-Dichloroethene	104		102		70-130	2		30
Trichloroethene	99		99		70-130	0		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	102		103		70-130	1		30
Methyl tert butyl ether	97		98		66-130	1		30
p/m-Xylene	97		98		70-130	1		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	102		102		70-130	0		30
Dibromomethane	98		97		70-130	1		30
Styrene	94		94		70-130	0		30
Dichlorodifluoromethane	116		112		30-146	4		30
Acetone	117		102		54-140	14		30
Carbon disulfide	95		94		59-130	1		30
2-Butanone	92		90		70-130	2		30
Vinyl acetate	91		92		70-130	1		30
4-Methyl-2-pentanone	93		94		70-130	1		30
1,2,3-Trichloropropane	90		91		68-130	1		30
2-Hexanone	84		85		70-130	1		30
Bromochloromethane	108		107		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1336346-3 WG1336346-4								
2,2-Dichloropropane	97		96		70-130	1		30
1,2-Dibromoethane	104		105		70-130	1		30
1,3-Dichloropropane	97		98		69-130	1		30
1,1,1,2-Tetrachloroethane	106		107		70-130	1		30
Bromobenzene	106		105		70-130	1		30
n-Butylbenzene	95		95		70-130	0		30
sec-Butylbenzene	95		94		70-130	1		30
tert-Butylbenzene	97		96		70-130	1		30
o-Chlorotoluene	95		92		70-130	3		30
p-Chlorotoluene	96		96		70-130	0		30
1,2-Dibromo-3-chloropropane	103		105		68-130	2		30
Hexachlorobutadiene	122		122		67-130	0		30
Isopropylbenzene	95		94		70-130	1		30
p-Isopropyltoluene	98		98		70-130	0		30
Naphthalene	100		100		70-130	0		30
Acrylonitrile	108		106		70-130	2		30
n-Propylbenzene	94		93		70-130	1		30
1,2,3-Trichlorobenzene	116		115		70-130	1		30
1,2,4-Trichlorobenzene	118		118		70-130	0		30
1,3,5-Trimethylbenzene	97		96		70-130	1		30
1,2,4-Trimethylbenzene	98		98		70-130	0		30
1,4-Dioxane	110		107		65-136	3		30
p-Diethylbenzene	100		100		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1336346-3 WG1336346-4								
p-Ethyltoluene	98		97		70-130	1		30
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		30
Ethyl ether	84		83		67-130	1		30
trans-1,4-Dichloro-2-butene	106		106		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		93		70-130
Toluene-d8	97		95		70-130
4-Bromofluorobenzene	90		88		70-130
Dibromofluoromethane	104		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1336589-3 WG1336589-4								
Methylene chloride	100		100		70-130	0		30
1,1-Dichloroethane	100		101		70-130	1		30
Chloroform	102		97		70-130	5		30
Carbon tetrachloride	107		106		70-130	1		30
1,2-Dichloropropane	94		94		70-130	0		30
Dibromochloromethane	110		108		70-130	2		30
1,1,2-Trichloroethane	96		98		70-130	2		30
Tetrachloroethene	114		113		70-130	1		30
Chlorobenzene	97		97		70-130	0		30
Trichlorofluoromethane	78		77		70-139	1		30
1,2-Dichloroethane	99		99		70-130	0		30
1,1,1-Trichloroethane	102		101		70-130	1		30
Bromodichloromethane	95		95		70-130	0		30
trans-1,3-Dichloropropene	98		97		70-130	1		30
cis-1,3-Dichloropropene	92		93		70-130	1		30
1,1-Dichloropropene	95		95		70-130	0		30
Bromoform	107		108		70-130	1		30
1,1,2,2-Tetrachloroethane	91		92		70-130	1		30
Benzene	92		92		70-130	0		30
Toluene	97		96		70-130	1		30
Ethylbenzene	94		94		70-130	0		30
Chloromethane	112		108		52-130	4		30
Bromomethane	94		91		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1336589-3 WG1336589-4								
Vinyl chloride	91		89		67-130	2		30
Chloroethane	95		93		50-151	2		30
1,1-Dichloroethene	104		103		65-135	1		30
trans-1,2-Dichloroethene	102		102		70-130	0		30
Trichloroethene	99		98		70-130	1		30
1,2-Dichlorobenzene	100		101		70-130	1		30
1,3-Dichlorobenzene	101		102		70-130	1		30
1,4-Dichlorobenzene	100		100		70-130	0		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	96		96		70-130	0		30
o-Xylene	92		93		70-130	1		30
cis-1,2-Dichloroethene	100		99		70-130	1		30
Dibromomethane	96		97		70-130	1		30
Styrene	92		92		70-130	0		30
Dichlorodifluoromethane	115		112		30-146	3		30
Acetone	116		108		54-140	7		30
Carbon disulfide	94		94		59-130	0		30
2-Butanone	88		88		70-130	0		30
Vinyl acetate	90		90		70-130	0		30
4-Methyl-2-pentanone	87		89		70-130	2		30
1,2,3-Trichloropropane	90		89		68-130	1		30
2-Hexanone	78		81		70-130	4		30
Bromochloromethane	107		105		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1336589-3 WG1336589-4								
2,2-Dichloropropane	97		96		70-130	1		30
1,2-Dibromoethane	101		101		70-130	0		30
1,3-Dichloropropane	94		95		69-130	1		30
1,1,1,2-Tetrachloroethane	104		104		70-130	0		30
Bromobenzene	104		103		70-130	1		30
n-Butylbenzene	94		95		70-130	1		30
sec-Butylbenzene	94		94		70-130	0		30
tert-Butylbenzene	95		96		70-130	1		30
o-Chlorotoluene	93		92		70-130	1		30
p-Chlorotoluene	94		95		70-130	1		30
1,2-Dibromo-3-chloropropane	100		103		68-130	3		30
Hexachlorobutadiene	118		120		67-130	2		30
Isopropylbenzene	93		93		70-130	0		30
p-Isopropyltoluene	96		96		70-130	0		30
Naphthalene	96		98		70-130	2		30
Acrylonitrile	105		104		70-130	1		30
n-Propylbenzene	93		93		70-130	0		30
1,2,3-Trichlorobenzene	111		111		70-130	0		30
1,2,4-Trichlorobenzene	114		114		70-130	0		30
1,3,5-Trimethylbenzene	96		96		70-130	0		30
1,2,4-Trimethylbenzene	96		97		70-130	1		30
1,4-Dioxane	98		97		65-136	1		30
p-Diethylbenzene	98		98		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 03 Batch: WG1336589-3 WG1336589-4								
p-Ethyltoluene	97		96		70-130	1		30
1,2,4,5-Tetramethylbenzene	97		98		70-130	1		30
Ethyl ether	82		81		67-130	1		30
trans-1,4-Dichloro-2-butene	105		106		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	89		88		70-130
Dibromofluoromethane	105		102		70-130

SEMIVOLATILES

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02
Client ID: SB01_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 10:55
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 06:00
Analyst: WR
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.	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	30.	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
Fluoranthene	ND		ug/kg	100	19.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	480	150	1
Hexachloroethane	ND		ug/kg	140	27.	1
Isophorone	ND		ug/kg	150	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	150	25.	1
NDPA/DPA	ND		ug/kg	140	19.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	59.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	32.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02 Date Collected: 01/29/20 10:55

Client ID: SB01_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	27.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	26.	1
Anthracene	ND		ug/kg	100	33.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	39.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	70.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	200	20.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	32.	1
p-Chloro-m-cresol	ND		ug/kg	170	25.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	150	27.	1
2,4-Dimethylphenol	ND		ug/kg	170	56.	1
2-Nitrophenol	ND		ug/kg	370	64.	1
4-Nitrophenol	ND		ug/kg	240	69.	1
2,4-Dinitrophenol	ND		ug/kg	810	79.	1
4,6-Dinitro-o-cresol	ND		ug/kg	440	81.	1
Pentachlorophenol	ND		ug/kg	140	37.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02 Date Collected: 01/29/20 10:55

Client ID: SB01_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	32.	1
Benzoic Acid	ND		ug/kg	550	170	1
Benzyl Alcohol	ND		ug/kg	170	52.	1
Carbazole	ND		ug/kg	170	16.	1
1,4-Dioxane	ND		ug/kg	25	7.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	111		25-120
Phenol-d6	108		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	119		10-136
4-Terphenyl-d14	**130**	Q	18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/05/20 14:20
Analyst: EK
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20000		ug/kg	18000	2400	100
1,2,4-Trichlorobenzene	ND		ug/kg	23000	2600	100
Hexachlorobenzene	ND		ug/kg	14000	2600	100
Bis(2-chloroethyl)ether	ND		ug/kg	20000	3100	100
2-Chloronaphthalene	ND		ug/kg	23000	2300	100
1,2-Dichlorobenzene	ND		ug/kg	23000	4100	100
1,3-Dichlorobenzene	ND		ug/kg	23000	3900	100
1,4-Dichlorobenzene	ND		ug/kg	23000	4000	100
3,3'-Dichlorobenzidine	ND		ug/kg	23000	6100	100
2,4-Dinitrotoluene	ND		ug/kg	23000	4600	100
2,6-Dinitrotoluene	ND		ug/kg	23000	3900	100
Fluoranthene	570000		ug/kg	14000	2600	100
4-Chlorophenyl phenyl ether	ND		ug/kg	23000	2400	100
4-Bromophenyl phenyl ether	ND		ug/kg	23000	3500	100
Bis(2-chloroisopropyl)ether	ND		ug/kg	27000	3900	100
Bis(2-chloroethoxy)methane	ND		ug/kg	25000	2300	100
Hexachlorobutadiene	ND		ug/kg	23000	3300	100
Hexachlorocyclopentadiene	ND		ug/kg	65000	21000	100
Hexachloroethane	ND		ug/kg	18000	3700	100
Isophorone	ND		ug/kg	20000	3000	100
Naphthalene	8700	J	ug/kg	23000	2800	100
Nitrobenzene	ND		ug/kg	20000	3400	100
NDPA/DPA	ND		ug/kg	18000	2600	100
n-Nitrosodi-n-propylamine	ND		ug/kg	23000	3500	100
Bis(2-ethylhexyl)phthalate	150000		ug/kg	23000	7900	100
Butyl benzyl phthalate	ND		ug/kg	23000	5800	100
Di-n-butylphthalate	ND		ug/kg	23000	4300	100
Di-n-octylphthalate	ND		ug/kg	23000	7800	100

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D Date Collected: 01/29/20 14:30

Client ID: SB06_4-6 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	23000	2100	100
Dimethyl phthalate	ND		ug/kg	23000	4800	100
Benzo(a)anthracene	260000		ug/kg	14000	2600	100
Benzo(a)pyrene	250000		ug/kg	18000	5600	100
Benzo(b)fluoranthene	320000		ug/kg	14000	3800	100
Benzo(k)fluoranthene	100000		ug/kg	14000	3600	100
Chrysene	250000		ug/kg	14000	2400	100
Acenaphthylene	34000		ug/kg	18000	3500	100
Anthracene	100000		ug/kg	14000	4400	100
Benzo(ghi)perylene	150000		ug/kg	18000	2700	100
Fluorene	31000		ug/kg	23000	2200	100
Phenanthrene	370000		ug/kg	14000	2800	100
Dibenzo(a,h)anthracene	42000		ug/kg	14000	2600	100
Indeno(1,2,3-cd)pyrene	160000		ug/kg	18000	3200	100
Pyrene	460000		ug/kg	14000	2300	100
Biphenyl	ND		ug/kg	52000	5300	100
4-Chloroaniline	ND		ug/kg	23000	4200	100
2-Nitroaniline	ND		ug/kg	23000	4400	100
3-Nitroaniline	ND		ug/kg	23000	4300	100
4-Nitroaniline	ND		ug/kg	23000	9400	100
Dibenzofuran	16000	J	ug/kg	23000	2200	100
2-Methylnaphthalene	5000	J	ug/kg	27000	2800	100
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	23000	2400	100
Acetophenone	ND		ug/kg	23000	2800	100
2,4,6-Trichlorophenol	ND		ug/kg	14000	4300	100
p-Chloro-m-cresol	ND		ug/kg	23000	3400	100
2-Chlorophenol	ND		ug/kg	23000	2700	100
2,4-Dichlorophenol	ND		ug/kg	20000	3700	100
2,4-Dimethylphenol	ND		ug/kg	23000	7500	100
2-Nitrophenol	ND		ug/kg	49000	8600	100
4-Nitrophenol	ND		ug/kg	32000	9300	100
2,4-Dinitrophenol	ND		ug/kg	110000	11000	100
4,6-Dinitro-o-cresol	ND		ug/kg	59000	11000	100
Pentachlorophenol	ND		ug/kg	18000	5000	100
Phenol	ND		ug/kg	23000	3400	100
2-Methylphenol	ND		ug/kg	23000	3500	100
3-Methylphenol/4-Methylphenol	ND		ug/kg	33000	3600	100

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	23000	4400	100
Benzoic Acid	ND		ug/kg	74000	23000	100
Benzyl Alcohol	ND		ug/kg	23000	7000	100
Carbazole	30000		ug/kg	23000	2200	100
1,4-Dioxane	ND		ug/kg	3400	1000	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06
Client ID: SB07_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:15
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/04/20 05:37
Analyst: WR
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	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	160	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	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	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Fluoranthene	ND		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06 Date Collected: 01/29/20 14:15

Client ID: SB07_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	ND		ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06 Date Collected: 01/29/20 14:15

Client ID: SB07_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
1,4-Dioxane	ND		ug/kg	26	7.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	112		25-120
Phenol-d6	112		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	112		30-120
2,4,6-Tribromophenol	113		10-136
4-Terphenyl-d14	**129**	Q	18-120

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 03:49
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1335725-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 03:49
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1335725-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 02/01/20 03:49
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 01/31/20 05:42

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,04,06 Batch: WG1335725-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335725-2 WG1335725-3								
Acenaphthene	86		95		31-137	10		50
1,2,4-Trichlorobenzene	81		90		38-107	11		50
Hexachlorobenzene	90		97		40-140	7		50
Bis(2-chloroethyl)ether	81		91		40-140	12		50
2-Chloronaphthalene	88		95		40-140	8		50
1,2-Dichlorobenzene	77		88		40-140	13		50
1,3-Dichlorobenzene	77		86		40-140	11		50
1,4-Dichlorobenzene	76		86		28-104	12		50
3,3'-Dichlorobenzidine	66		70		40-140	6		50
2,4-Dinitrotoluene	90		97		40-132	7		50
2,6-Dinitrotoluene	89		96		40-140	8		50
Fluoranthene	93		98		40-140	5		50
4-Chlorophenyl phenyl ether	90		97		40-140	7		50
4-Bromophenyl phenyl ether	90		97		40-140	7		50
Bis(2-chloroisopropyl)ether	80		91		40-140	13		50
Bis(2-chloroethoxy)methane	87		94		40-117	8		50
Hexachlorobutadiene	79		88		40-140	11		50
Hexachlorocyclopentadiene	76		80		40-140	5		50
Hexachloroethane	74		84		40-140	13		50
Isophorone	87		95		40-140	9		50
Naphthalene	84		92		40-140	9		50
Nitrobenzene	89		102		40-140	14		50
NDPA/DPA	91		98		36-157	7		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335725-2 WG1335725-3								
n-Nitrosodi-n-propylamine	87		96		32-121	10		50
Bis(2-ethylhexyl)phthalate	95		99		40-140	4		50
Butyl benzyl phthalate	95		102		40-140	7		50
Di-n-butylphthalate	97		102		40-140	5		50
Di-n-octylphthalate	96		102		40-140	6		50
Diethyl phthalate	91		99		40-140	8		50
Dimethyl phthalate	94		97		40-140	3		50
Benzo(a)anthracene	90		93		40-140	3		50
Benzo(a)pyrene	93		100		40-140	7		50
Benzo(b)fluoranthene	92		96		40-140	4		50
Benzo(k)fluoranthene	94		101		40-140	7		50
Chrysene	90		93		40-140	3		50
Acenaphthylene	90		95		40-140	5		50
Anthracene	91		96		40-140	5		50
Benzo(ghi)perylene	92		98		40-140	6		50
Fluorene	91		99		40-140	8		50
Phenanthrene	89		93		40-140	4		50
Dibenzo(a,h)anthracene	94		101		40-140	7		50
Indeno(1,2,3-cd)pyrene	88		101		40-140	14		50
Pyrene	90		95		35-142	5		50
Biphenyl	88		94		37-127	7		50
4-Chloroaniline	74		82		40-140	10		50
2-Nitroaniline	97		106		47-134	9		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335725-2 WG1335725-3								
3-Nitroaniline	81		92		26-129	13		50
4-Nitroaniline	97		104		41-125	7		50
Dibenzofuran	89		97		40-140	9		50
2-Methylnaphthalene	86		94		40-140	9		50
1,2,4,5-Tetrachlorobenzene	89		95		40-117	7		50
Acetophenone	86		96		14-144	11		50
2,4,6-Trichlorophenol	94		100		30-130	6		50
p-Chloro-m-cresol	97		103		26-103	6		50
2-Chlorophenol	85		96		25-102	12		50
2,4-Dichlorophenol	91		100		30-130	9		50
2,4-Dimethylphenol	82		90		30-130	9		50
2-Nitrophenol	88		100		30-130	13		50
4-Nitrophenol	98		106		11-114	8		50
2,4-Dinitrophenol	28		31		4-130	10		50
4,6-Dinitro-o-cresol	67		75		10-130	11		50
Pentachlorophenol	77		87		17-109	12		50
Phenol	84		**94**	Q	26-90	11		50
2-Methylphenol	88		96		30-130.	9		50
3-Methylphenol/4-Methylphenol	90		99		30-130	10		50
2,4,5-Trichlorophenol	94		100		30-130	6		50
Benzoic Acid	18		**0**	Q	10-110	NC		50
Benzyl Alcohol	87		97		40-140	11		50
Carbazole	91		96		54-128	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335725-2 WG1335725-3								
1,4-Dioxane	54		60		40-140	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	80		89		25-120
Phenol-d6	84		92		10-120
Nitrobenzene-d5	85		93		23-120
2-Fluorobiphenyl	82		86		30-120
2,4,6-Tribromophenol	88		95		10-136
4-Terphenyl-d14	94		100		18-120

PCBS

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02
Client ID: SB01_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 10:55
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/03/20 04:50
Analyst: JM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 01:31
Cleanup Method: EPA 3665A
Cleanup Date: 01/31/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.20	1	A
Aroclor 1242	ND		ug/kg	33.9	4.58	1	A
Aroclor 1248	ND		ug/kg	33.9	5.09	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.27	1	A
Aroclor 1262	ND		ug/kg	33.9	4.31	1	A
Aroclor 1268	ND		ug/kg	33.9	3.52	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/03/20 05:02
Analyst: JM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 01:31
Cleanup Method: EPA 3665A
Cleanup Date: 01/31/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.0	3.91	1	A
Aroclor 1221	ND		ug/kg	44.0	4.41	1	A
Aroclor 1232	ND		ug/kg	44.0	9.32	1	A
Aroclor 1242	ND		ug/kg	44.0	5.93	1	A
Aroclor 1248	ND		ug/kg	44.0	6.60	1	A
Aroclor 1254	ND		ug/kg	44.0	4.81	1	A
Aroclor 1260	191		ug/kg	44.0	8.13	1	B
Aroclor 1262	ND		ug/kg	44.0	5.59	1	A
Aroclor 1268	51.8		ug/kg	44.0	4.56	1	A
PCBs, Total	243		ug/kg	44.0	3.91	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	111		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	119		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06
Client ID: SB07_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:15
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/03/20 05:14
Analyst: JM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 01:31
Cleanup Method: EPA 3665A
Cleanup Date: 01/31/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.2	2.95	1	A
Aroclor 1221	ND		ug/kg	33.2	3.32	1	A
Aroclor 1232	ND		ug/kg	33.2	7.04	1	A
Aroclor 1242	ND		ug/kg	33.2	4.47	1	A
Aroclor 1248	ND		ug/kg	33.2	4.98	1	A
Aroclor 1254	ND		ug/kg	33.2	3.63	1	A
Aroclor 1260	ND		ug/kg	33.2	6.13	1	A
Aroclor 1262	ND		ug/kg	33.2	4.21	1	A
Aroclor 1268	ND		ug/kg	33.2	3.44	1	A
PCBs, Total	ND		ug/kg	33.2	2.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/02/20 21:06
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 01/31/20 01:31
Cleanup Method: EPA 3665A
Cleanup Date: 01/31/20
Cleanup Method: EPA 3660B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1335682-1						
Aroclor 1016	ND		ug/kg	31.5	2.80	A
Aroclor 1221	ND		ug/kg	31.5	3.16	A
Aroclor 1232	ND		ug/kg	31.5	6.69	A
Aroclor 1242	ND		ug/kg	31.5	4.25	A
Aroclor 1248	ND		ug/kg	31.5	4.73	A
Aroclor 1254	ND		ug/kg	31.5	3.45	A
Aroclor 1260	ND		ug/kg	31.5	5.83	A
Aroclor 1262	ND		ug/kg	31.5	4.01	A
Aroclor 1268	ND		ug/kg	31.5	3.27	A
PCBs, Total	ND		ug/kg	31.5	2.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	73		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335682-2 WG1335682-3									
Aroclor 1016	64		68		40-140	6		50	A
Aroclor 1260	54		60		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		77		30-150	A
Decachlorobiphenyl	52		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		81		30-150	B
Decachlorobiphenyl	72		76		30-150	B

PESTICIDES

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02
Client ID: SB01_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 10:55
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/01/20 00:41
Analyst: BM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.59	0.312	1	A
Lindane	ND		ug/kg	0.663	0.296	1	A
Alpha-BHC	ND		ug/kg	0.663	0.188	1	A
Beta-BHC	ND		ug/kg	1.59	0.603	1	A
Heptachlor	ND		ug/kg	0.796	0.357	1	A
Aldrin	ND		ug/kg	1.59	0.560	1	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	1	A
Endrin	ND		ug/kg	0.663	0.272	1	A
Endrin aldehyde	ND		ug/kg	1.99	0.696	1	A
Endrin ketone	ND		ug/kg	1.59	0.410	1	A
Dieldrin	ND		ug/kg	0.994	0.497	1	A
4,4'-DDE	ND		ug/kg	1.59	0.368	1	B
4,4'-DDD	ND		ug/kg	1.59	0.568	1	A
4,4'-DDT	ND		ug/kg	2.98	1.28	1	A
Endosulfan I	ND		ug/kg	1.59	0.376	1	A
Endosulfan II	ND		ug/kg	1.59	0.532	1	A
Endosulfan sulfate	ND		ug/kg	0.663	0.316	1	A
Methoxychlor	ND		ug/kg	2.98	0.928	1	A
Toxaphene	ND		ug/kg	29.8	8.35	1	A
cis-Chlordane	ND		ug/kg	1.99	0.554	1	A
trans-Chlordane	ND		ug/kg	1.99	0.525	1	A
Chlordane	ND		ug/kg	13.3	5.27	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02 Date Collected: 01/29/20 10:55

Client ID: SB01_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	95		30-150	A
Decachlorobiphenyl	92		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Lab Number: L2004186
Project Number: 170610401
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D2
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/04/20 16:01
Analyst: BM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
4,4'-DDT	8870		ug/kg	415	178.	100	A

Project Name: 326-350 ROCKAWAY AVENUE
Lab Number: L2004186
Project Number: 170610401
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/03/20 17:51
Analyst: BM
Percent Solids: 71%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	11.1	2.17	5	A
Lindane	ND		ug/kg	4.61	2.06	5	A
Alpha-BHC	ND		ug/kg	4.61	1.31	5	A
Beta-BHC	ND		ug/kg	11.1	4.20	5	A
Heptachlor	51.0		ug/kg	5.54	2.48	5	A
Aldrin	ND		ug/kg	11.1	3.90	5	A
Heptachlor epoxide	ND		ug/kg	20.8	6.23	5	A
Endrin	ND		ug/kg	4.61	1.89	5	A
Endrin aldehyde	ND		ug/kg	13.8	4.84	5	A
Endrin ketone	ND		ug/kg	11.1	2.85	5	A
Dieldrin	367		ug/kg	6.92	3.46	5	A
4,4'-DDE	902		ug/kg	11.1	2.56	5	A
4,4'-DDD	299		ug/kg	11.1	3.95	5	A
4,4'-DDT	7590	E	ug/kg	20.8	8.90	5	A
Endosulfan I	ND		ug/kg	11.1	2.62	5	A
Endosulfan II	36.2	IP	ug/kg	11.1	3.70	5	A
Endosulfan sulfate	ND		ug/kg	4.61	2.20	5	A
Methoxychlor	ND		ug/kg	20.8	6.46	5	A
Toxaphene	ND		ug/kg	208	58.1	5	A
cis-Chlordane	707	IP	ug/kg	13.8	3.86	5	B
trans-Chlordane	821		ug/kg	13.8	3.65	5	B
Chlordane	6600		ug/kg	92.3	36.7	5	B

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 D
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	**630**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	**3520**	Q	30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06
Client ID: SB07_15-17
Sample Location: BROOKLYN, NEW YORK

Date Collected: 01/29/20 14:15
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/01/20 00:51
Analyst: BM
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.687	0.307	1	A
Alpha-BHC	ND		ug/kg	0.687	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.824	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.580	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.927	1	A
Endrin	ND		ug/kg	0.687	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.721	1	A
Endrin ketone	ND		ug/kg	1.65	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.515	1	A
4,4'-DDE	ND		ug/kg	1.65	0.381	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	A
4,4'-DDT	ND		ug/kg	3.09	1.32	1	A
Endosulfan I	ND		ug/kg	1.65	0.389	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.687	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.962	1	A
Toxaphene	ND		ug/kg	30.9	8.65	1	A
cis-Chlordane	ND		ug/kg	2.06	0.574	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.7	5.46	1	A

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06 Date Collected: 01/29/20 14:15

Client ID: SB07_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	98		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/31/20 23:14
Analyst: SM

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1335707-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.282	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.575	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.84	0.853	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.948	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.84	0.885	A
Toxaphene	ND		ug/kg	28.4	7.96	A
cis-Chlordane	ND		ug/kg	1.90	0.528	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.02	A

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 01/31/20 23:14
Analyst: SM

Extraction Method: EPA 3546
Extraction Date: 01/31/20 04:43
Cleanup Method: EPA 3620B
Cleanup Date: 01/31/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,04,06 Batch: WG1335707-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	77		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335707-2 WG1335707-3									
Delta-BHC	98		101		30-150	3		30	A
Lindane	92		95		30-150	3		30	A
Alpha-BHC	99		101		30-150	2		30	A
Beta-BHC	85		88		30-150	3		30	A
Heptachlor	89		93		30-150	4		30	A
Aldrin	97		103		30-150	6		30	A
Heptachlor epoxide	92		96		30-150	4		30	A
Endrin	99		104		30-150	5		30	A
Endrin aldehyde	67		68		30-150	1		30	A
Endrin ketone	84		88		30-150	5		30	A
Dieldrin	101		106		30-150	5		30	A
4,4'-DDE	100		104		30-150	4		30	A
4,4'-DDD	95		99		30-150	4		30	A
4,4'-DDT	98		103		30-150	5		30	A
Endosulfan I	89		93		30-150	4		30	A
Endosulfan II	90		94		30-150	4		30	A
Endosulfan sulfate	64		68		30-150	6		30	A
Methoxychlor	99		106		30-150	7		30	A
cis-Chlordane	87		90		30-150	3		30	A
trans-Chlordane	91		95		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2004186

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,04,06 Batch: WG1335707-2 WG1335707-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		92		30-150	B
Decachlorobiphenyl	83		85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		89		30-150	A
Decachlorobiphenyl	80		80		30-150	A

METALS

Project Name: 326-350 ROCKAWAY AVENUE
Lab Number: L2004186
Project Number: 170610401
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02
Client ID: SB01_15-17
Sample Location: BROOKLYN, NEW YORK
Date Collected: 01/29/20 10:55
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5160		mg/kg	7.94	2.14	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Antimony, Total	0.365	J	mg/kg	3.97	0.302	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Arsenic, Total	2.77		mg/kg	0.794	0.165	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Barium, Total	27.8		mg/kg	0.794	0.138	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Beryllium, Total	0.476		mg/kg	0.397	0.026	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Cadmium, Total	0.937		mg/kg	0.794	0.078	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Calcium, Total	750		mg/kg	7.94	2.78	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Chromium, Total	16.8		mg/kg	0.794	0.076	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Cobalt, Total	6.67		mg/kg	1.59	0.132	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Copper, Total	16.8		mg/kg	0.794	0.205	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Iron, Total	29800		mg/kg	3.97	0.717	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Lead, Total	5.22		mg/kg	3.97	0.213	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Magnesium, Total	2080		mg/kg	7.94	1.22	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Manganese, Total	381		mg/kg	0.794	0.126	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.085	0.055	1	01/31/20 03:10	01/31/20 20:29	EPA 7471B	1,7471B	GD
Nickel, Total	11.6		mg/kg	1.98	0.192	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Potassium, Total	874		mg/kg	198	11.4	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Selenium, Total	0.238	J	mg/kg	1.59	0.205	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.794	0.225	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Sodium, Total	107	J	mg/kg	159	2.50	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.59	0.250	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Vanadium, Total	30.6		mg/kg	0.794	0.161	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC
Zinc, Total	27.7		mg/kg	3.97	0.233	2	01/31/20 06:50	01/31/20 13:32	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04 Date Collected: 01/29/20 14:30

Client ID: SB06_4-6 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4410		mg/kg	10.5	2.85	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Antimony, Total	33.2		mg/kg	5.27	0.401	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Arsenic, Total	15.0		mg/kg	1.05	0.219	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Barium, Total	615		mg/kg	1.05	0.184	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Beryllium, Total	0.116	J	mg/kg	0.527	0.035	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Cadmium, Total	5.75		mg/kg	1.05	0.103	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Calcium, Total	95200		mg/kg	105	36.9	20	01/31/20 06:50	01/31/20 17:34	EPA 3050B	1,6010D	LC
Chromium, Total	28.8		mg/kg	1.05	0.101	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Cobalt, Total	7.51		mg/kg	2.11	0.175	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Copper, Total	90.7		mg/kg	1.05	0.272	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Iron, Total	20000		mg/kg	5.27	0.952	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Lead, Total	1380		mg/kg	5.27	0.283	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Magnesium, Total	3640		mg/kg	10.5	1.62	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Manganese, Total	253		mg/kg	1.05	0.168	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Mercury, Total	0.464		mg/kg	0.109	0.071	1	01/31/20 03:10	01/31/20 20:31	EPA 7471B	1,7471B	GD
Nickel, Total	13.0		mg/kg	2.64	0.255	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Potassium, Total	406		mg/kg	264	15.2	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Selenium, Total	1.28	J	mg/kg	2.11	0.272	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	1.05	0.298	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Sodium, Total	318		mg/kg	211	3.32	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	2.11	0.332	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Vanadium, Total	28.1		mg/kg	1.05	0.214	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC
Zinc, Total	4630		mg/kg	5.27	0.309	2	01/31/20 06:50	01/31/20 13:36	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06 Date Collected: 01/29/20 14:15

Client ID: SB07_15-17 Date Received: 01/29/20

Sample Location: BROOKLYN, NEW YORK 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	4270		mg/kg	7.98	2.15	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	3.99	0.303	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Arsenic, Total	2.67		mg/kg	0.798	0.166	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Barium, Total	21.3		mg/kg	0.798	0.139	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Beryllium, Total	0.271	J	mg/kg	0.399	0.026	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Cadmium, Total	0.519	J	mg/kg	0.798	0.078	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Calcium, Total	424		mg/kg	7.98	2.79	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Chromium, Total	12.2		mg/kg	0.798	0.077	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Cobalt, Total	4.48		mg/kg	1.60	0.132	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Copper, Total	12.6		mg/kg	0.798	0.206	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Iron, Total	17100		mg/kg	3.99	0.720	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Lead, Total	8.93		mg/kg	3.99	0.214	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Magnesium, Total	1780		mg/kg	7.98	1.23	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Manganese, Total	245		mg/kg	0.798	0.127	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.075	0.049	1	01/31/20 03:10	01/31/20 20:33	EPA 7471B	1,7471B	GD
Nickel, Total	8.53		mg/kg	1.99	0.193	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Potassium, Total	903		mg/kg	199	11.5	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Selenium, Total	0.343	J	mg/kg	1.60	0.206	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.798	0.226	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Sodium, Total	83.5	J	mg/kg	160	2.51	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.60	0.251	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Vanadium, Total	25.5		mg/kg	0.798	0.162	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC
Zinc, Total	37.7		mg/kg	3.99	0.234	2	01/31/20 06:50	01/31/20 13:40	EPA 3050B	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE **Lab Number:** L2004186

Project Number: 170610401 **Report Date:** 02/05/20

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): 02,04,06 Batch: WG1335571-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	01/31/20 03:10	01/31/20 19:51	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,04,06 Batch: WG1335739-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Iron, Total	0.372	J	mg/kg	2.00	0.361	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	01/31/20 06:50	01/31/20 10:43	1,6010D	LC

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2004186

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 Batch: WG1335571-2 SRM Lot Number: D105-540								
Mercury, Total	92		-		60-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2004186

Report Date: 02/05/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 Batch: WG1335739-2 SRM Lot Number: D105-540					
Aluminum, Total	62	-	51-149	-	
Antimony, Total	167	-	19-249	-	
Arsenic, Total	101	-	70-130	-	
Barium, Total	96	-	75-125	-	
Beryllium, Total	102	-	75-125	-	
Cadmium, Total	98	-	75-125	-	
Calcium, Total	83	-	73-127	-	
Chromium, Total	95	-	70-130	-	
Cobalt, Total	97	-	75-125	-	
Copper, Total	96	-	75-125	-	
Iron, Total	78	-	38-162	-	
Lead, Total	94	-	71-128	-	
Magnesium, Total	80	-	63-137	-	
Manganese, Total	90	-	76-124	-	
Nickel, Total	97	-	70-131	-	
Potassium, Total	78	-	60-140	-	
Selenium, Total	101	-	63-137	-	
Silver, Total	90	-	69-131	-	
Sodium, Total	97	-	37-162	-	
Thallium, Total	97	-	68-132	-	
Vanadium, Total	90	-	65-135	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2004186

Report Date: 02/05/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 Batch: WG1335739-2 SRM Lot Number: D105-540					
Zinc, Total	95	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

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): 02,04,06 QC Batch ID: WG1335571-3 QC Sample: L2004046-01 Client ID: MS Sample												
Mercury, Total	0.074	0.154	0.223	**145**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1335739-3 QC Sample: L2004353-05 Client ID: MS Sample										
Aluminum, Total	4970	211	6000	**488**	Q	-	-	75-125	-	20
Antimony, Total	ND	52.8	42.3	80		-	-	75-125	-	20
Arsenic, Total	1.76	12.7	13.4	92		-	-	75-125	-	20
Barium, Total	20.2	211	200	85		-	-	75-125	-	20
Beryllium, Total	0.358	5.28	4.86	85		-	-	75-125	-	20
Cadmium, Total	0.358J	5.38	4.74	88		-	-	75-125	-	20
Calcium, Total	456	1060	1220	**72**	Q	-	-	75-125	-	20
Chromium, Total	14.1	21.1	32.7	88		-	-	75-125	-	20
Cobalt, Total	7.64	52.8	53.2	86		-	-	75-125	-	20
Copper, Total	8.85	26.4	31.0	84		-	-	75-125	-	20
Iron, Total	12100	106	13700	**1520**	Q	-	-	75-125	-	20
Lead, Total	2.54J	53.8	45.1	84		-	-	75-125	-	20
Magnesium, Total	1820	1060	2940	106		-	-	75-125	-	20
Manganese, Total	95.2	52.8	168	**138**	Q	-	-	75-125	-	20
Nickel, Total	11.9	52.8	55.3	82		-	-	75-125	-	20
Potassium, Total	1790	1060	2890	104		-	-	75-125	-	20
Selenium, Total	ND	12.7	10.9	86		-	-	75-125	-	20
Silver, Total	ND	31.6	28.2	89		-	-	75-125	-	20
Sodium, Total	162	1060	1060	85		-	-	75-125	-	20
Thallium, Total	ND	12.7	9.15	**72**	Q	-	-	75-125	-	20
Vanadium, Total	16.9	52.8	62.7	87		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1335739-3 QC Sample: L2004353-05 Client ID: MS Sample									
Zinc, Total	33.7	52.8	83.9	95	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1335571-4 QC Sample: L2004046-01 Client ID: DUP Sample						
Mercury, Total	0.074	0.083	mg/kg	11		20
Total Metals - Mansfield Lab Associated sample(s): 02,04,06 QC Batch ID: WG1335739-4 QC Sample: L2004353-05 Client ID: DUP Sample						
Lead, Total	2.54J	2.81	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-01
Client ID: SB01_16.5-17
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/29/20 10:50
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	01/30/20 11:07	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-02
Client ID: SB01_15-17
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/29/20 10:55
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	01/30/20 10:13	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-03
Client ID: SB06_5.5-6
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/29/20 14:31
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.9		%	0.100	NA	1	-	01/30/20 11:07	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-04
Client ID: SB06_4-6
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil
Date Collected: 01/29/20 14:30
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.4		%	0.100	NA	1	-	01/30/20 10:13	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-05
Client ID: SB07_16.5-17
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/29/20 14:16
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.4		%	0.100	NA	1	-	01/30/20 11:07	121,2540G	RI

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004186
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004186-06
Client ID: SB07_15-17
Sample Location: BROOKLYN, NEW YORK
Sample Depth:
Matrix: Soil

Date Collected: 01/29/20 14:15
Date Received: 01/29/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	01/30/20 10:13	121,2540G	RI

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,04,06 QC Batch ID: WG1335354-1 QC Sample: L2004237-01 Client ID: DUP Sample						
Solids, Total	80.7	82.4	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01,03,05 QC Batch ID: WG1335362-1 QC Sample: L2004174-01 Client ID: DUP Sample						
Solids, Total	90.4	91.6	%	1		20

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

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(*)
L2004186-01A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2004186-01B	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-01C	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-01D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2004186-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2004186-02B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L2004186-03A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2004186-03B	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-03C	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-03D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)
L2004186-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2004186-04B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)
L2004186-05A	Vial MeOH preserved	A	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2004186-05B	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-05C	Vial water preserved	A	NA		4.2	Y	Absent	30-JAN-20 04:56	NYTCL-8260HLW(14)
L2004186-05D	Plastic 2oz unpreserved for TS	A	NA		4.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004186
Report Date: 02/05/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2004186-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),NA-TI(180),K-TI(180),CA-TI(180)
L2004186-06B	Glass 250ml/8oz unpreserved	A	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7),NYTCL-8081(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004186
Project Number:	170610401	**Report Date:**	02/05/20

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

ALPHA ANALYTICAL

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: 1/30/20

ALPHA Job #: L2004186

Client Information
Client: Langan Engineering
Address: 360 W 31st St, 8th Fl, New York, NY 10001
Phone: (212) 479-5400
Fax: (212) 479-5444
Email: Ksemon@langan.com

Project Information
Project Name: 326-350 Rockaway Avenue
Project Location: Brooklyn, New York
Project #: 170610401
(Use Project name as Project #)
Project Manager: Kim Semon (Del Col)
ALPHAQuote #:

Turn-Around Time
Standard: X
Due Date:
Rush (only if pre approved): ☐
# of Days:

Deliverables
☐ ASP-A ☐ ASP-B
X EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other + excel

Billing Information
X Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS X 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 also email results to dataemanagement@langan.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL/Part 375 VOCs	TCL/Part 375 SVOCs	Part 375 PCBs	Part 375 Pest.	TAL Metals	Sample Specific Comments	Total Bottle
04186 -01	SB01-16.5-17	1-29-20	1050	Soil	EMM	X						
-02	SB01-15-17		1055		EMM		X	X	X	X		
-03	SB06-5.5-6		1431		EMM	X						
-04	SB06-4-6		1430		EMM		X	X	X	X		
-05	SB07-16.5-17		1416		EMM	X						
-06	SB07-15-17		1415		EMM		X	X	X	X		

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; 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: 40mL vials / Amber Jars
Preservative: MeOH / H2O

Relinquished By:	Date/Time	Received By:	Date/Time
	1-29-20 16:10		1/29/20 16:10
	1/29/20 18:54		1/30/20 00:10
	1/30/20 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. (See reverse side.)

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

ANALYTICAL REPORT

Lab Number:	L2004216
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:	326-350 ROCKAWAY AVENUE
Project Number:	170610401
Report Date:	02/05/20

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).

Six Park Row, Mansfield, MA 02048
508-261-7467 (Fax) -- -- - emccarter@mansfieldma.com

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2004216-01	SVP01_012920	SOIL_VAPOR	BROOKLYN, NY	01/29/20 12:05	01/29/20
L2004216-02	SVP02_012920	SOIL_VAPOR	BROOKLYN, NY	01/29/20 12:35	01/29/20
L2004216-03	SVP03_012920	SOIL_VAPOR	BROOKLYN, NY	01/29/20 13:20	01/29/20
L2004216-04	SVP04_012920	SOIL_VAPOR	BROOKLYN, NY	01/29/20 13:35	01/29/20

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004216
Project Number:	170610401	**Report Date:**	02/05/20

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:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004216
Project Number:	170610401	**Report Date:**	02/05/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 28, 2020. The canister certification results are provided as an addendum.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 02/05/20

AIR

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-01
Client ID: SVP01_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:05
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/05/20 10:16
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	5.84	0.200	--	28.9	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.227	0.200	--	0.502	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.06	1.00	--	12.0	2.38	--		1
Trichlorofluoromethane	1.06	0.200	--	5.96	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.83	0.500	--	5.40	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-01
Client ID: SVP01_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:05
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.879	0.200	--	4.29	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	6.00	0.200	--	21.1	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	4.02	0.200	--	12.8	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	1.72	0.200	--	5.92	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	0.955	0.200	--	5.13	1.07	--		1
2,2,4-Trimethylpentane	1.34	0.200	--	6.26	0.934	--		1
Heptane	8.05	0.200	--	33.0	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	36.7	0.200	--	138	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.31	0.200	--	36.0	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	11.0	0.200	--	47.8	0.869	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-01
Client ID: SVP01_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:05
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	42.0	0.400	--	182	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.296	0.200	--	1.26	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	16.1	0.200	--	69.9	0.869	--		1
4-Ethyltoluene	4.31	0.200	--	21.2	0.983	--		1
1,3,5-Trimethylbenzene	5.14	0.200	--	25.3	0.983	--		1
1,2,4-Trimethylbenzene	19.8	0.200	--	97.3	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	94		60-140

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-02
Client ID: SVP02_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/04/20 23:43
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	162	1.00	--	385	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.921	0.500	--	2.79	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.856	0.200	--	2.67	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	6.94	0.500	--	20.5	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-02
Client ID: SVP02_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	1.27	0.200	--	4.48	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.745	0.200	--	2.38	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.212	0.200	--	0.730	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	1.66	0.200	--	6.80	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	10.0	0.200	--	37.7	0.754	--		1
2-Hexanone	1.73	0.200	--	7.09	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.285	0.200	--	1.93	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.78	0.200	--	12.1	0.869	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-02
Client ID: SVP02_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 12:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	11.2	0.400	--	48.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.32	0.200	--	14.4	0.869	--		1
4-Ethyltoluene	0.796	0.200	--	3.91	0.983	--		1
1,3,5-Trimethylbenzene	0.628	0.200	--	3.09	0.983	--		1
1,2,4-Trimethylbenzene	2.42	0.200	--	11.9	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-03
Client ID: SVP03_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:20
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/05/20 01:01
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.365	0.200	--	1.80	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.3	1.00	--	24.5	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.220	0.200	--	0.685	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.910	0.500	--	2.68	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-03
Client ID: SVP03_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:20
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.315	0.200	--	1.11	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.404	0.200	--	1.29	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.208	0.200	--	0.716	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.650	0.200	--	2.66	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.08	0.200	--	26.7	0.754	--		1
2-Hexanone	0.211	0.200	--	0.865	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.16	0.200	--	9.38	0.869	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-03
Client ID: SVP03_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:20
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	8.78	0.400	--	38.1	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.67	0.200	--	11.6	0.869	--		1
4-Ethyltoluene	0.610	0.200	--	3.00	0.983	--		1
1,3,5-Trimethylbenzene	0.564	0.200	--	2.77	0.983	--		1
1,2,4-Trimethylbenzene	1.80	0.200	--	8.85	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-04
Client ID: SVP04_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 02/05/20 01:41
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.696	0.200	--	3.44	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	114	1.00	--	271	2.38	--		1
Trichlorofluoromethane	0.918	0.200	--	5.16	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.96	0.500	--	14.6	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-04
Client ID: SVP04_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.354	0.200	--	1.73	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.325	0.200	--	1.15	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.388	0.200	--	1.24	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.231	0.200	--	0.795	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.638	0.200	--	2.61	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	5.53	0.200	--	20.8	0.754	--		1
2-Hexanone	1.06	0.200	--	4.34	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.534	0.200	--	3.62	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.69	0.200	--	7.34	0.869	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

SAMPLE RESULTS

Lab ID: L2004216-04
Client ID: SVP04_012920
Sample Location: BROOKLYN, NY

Date Collected: 01/29/20 13:35
Date Received: 01/29/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	7.11	0.400	--	30.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.05	0.200	--	8.90	0.869	--		1
4-Ethyltoluene	0.459	0.200	--	2.26	0.983	--		1
1,3,5-Trimethylbenzene	0.367	0.200	--	1.80	0.983	--		1
1,2,4-Trimethylbenzene	1.42	0.200	--	6.98	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	99		60-140

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/04/20 19:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1337049-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/04/20 19:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1337049-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401
Lab Number: L2004216
Report Date: 02/05/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 02/04/20 19:15

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG1337049-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1337049-3								
Dichlorodifluoromethane	76		-		70-130	-		
Chloromethane	90		-		70-130	-		
Freon-114	83		-		70-130	-		
Vinyl chloride	75		-		70-130	-		
1,3-Butadiene	83		-		70-130	-		
Bromomethane	79		-		70-130	-		
Chloroethane	73		-		70-130	-		
Ethanol	74		-		40-160	-		
Vinyl bromide	80		-		70-130	-		
Acetone	77		-		40-160	-		
Trichlorofluoromethane	70		-		70-130	-		
Isopropanol	83		-		40-160	-		
1,1-Dichloroethene	76		-		70-130	-		
Tertiary butyl Alcohol	71		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	99		-		70-130	-		
Carbon disulfide	89		-		70-130	-		
Freon-113	87		-		70-130	-		
trans-1,2-Dichloroethene	83		-		70-130	-		
1,1-Dichloroethane	87		-		70-130	-		
Methyl tert butyl ether	92		-		70-130	-		
2-Butanone	107		-		70-130	-		
cis-1,2-Dichloroethene	85		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE

Project Number: 170610401

Lab Number: L2004216

Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1337049-3								
Ethyl Acetate	86		-		70-130	-		
Chloroform	86		-		70-130	-		
Tetrahydrofuran	101		-		70-130	-		
1,2-Dichloroethane	82		-		70-130	-		
n-Hexane	83		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
Benzene	90		-		70-130	-		
Carbon tetrachloride	95		-		70-130	-		
Cyclohexane	83		-		70-130	-		
1,2-Dichloropropane	93		-		70-130	-		
Bromodichloromethane	90		-		70-130	-		
1,4-Dioxane	88		-		70-130	-		
Trichloroethene	91		-		70-130	-		
2,2,4-Trimethylpentane	88		-		70-130	-		
Heptane	110		-		70-130	-		
cis-1,3-Dichloropropene	104		-		70-130	-		
4-Methyl-2-pentanone	116		-		70-130	-		
trans-1,3-Dichloropropene	88		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	98		-		70-130	-		
2-Hexanone	128		-		70-130	-		
Dibromochloromethane	112		-		70-130	-		
1,2-Dibromoethane	113		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG1337049-3								
Tetrachloroethene	101		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	111		-		70-130	-		
Styrene	112		-		70-130	-		
1,1,2,2-Tetrachloroethane	106		-		70-130	-		
o-Xylene	107		-		70-130	-		
4-Ethyltoluene	113		-		70-130	-		
1,3,5-Trimethylbenzene	112		-		70-130	-		
1,2,4-Trimethylbenzene	112		-		70-130	-		
Benzyl chloride	115		-		70-130	-		
1,3-Dichlorobenzene	108		-		70-130	-		
1,4-Dichlorobenzene	109		-		70-130	-		
1,2-Dichlorobenzene	109		-		70-130	-		
1,2,4-Trichlorobenzene	115		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1337049-5 QC Sample: L2004216-02 Client ID: SVP02_012920						
Dichlorodifluoromethane	0.480	0.479	ppbV	0		25
Chloromethane	ND	ND	ppbV	NC		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	162	164	ppbV	1		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Tertiary butyl Alcohol	0.921	0.957	ppbV	4		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	0.856	0.881	ppbV	3		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1337049-5 QC Sample: L2004216-02 Client ID: SVP02_012920						
2-Butanone	6.94	7.03	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	1.27	1.30	ppbV	2		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.745	0.740	ppbV	1		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	0.212	0.211	ppbV	0		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	1.66	1.65	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG1337049-5 QC Sample: L2004216-02 Client ID: SVP02_012920						
Toluene	10.0	9.99	ppbV	0		25
2-Hexanone	1.73	1.76	ppbV	2		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	0.285	0.285	ppbV	0		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	2.78	2.79	ppbV	0		25
p/m-Xylene	11.2	11.1	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	3.32	3.33	ppbV	0		25
4-Ethyltoluene	0.796	0.805	ppbV	1		25
1,3,5-Trimethylbenzene	0.628	0.609	ppbV	3		25
1,2,4-Trimethylbenzene	2.42	2.41	ppbV	0		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 326-350 ROCKAWAY AVENUE

Lab Number: L2004216

Project Number: 170610401

Report Date: 02/05/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2004216-01	SVP01_012920	01385	Flow 3	01/28/20	313040		-	-	-	Pass	18.0	19.5	8
L2004216-01	SVP01_012920	2078	2.7L Can	01/28/20	313040	L2002919-03	Pass	-29.1	-4.2	-	-	-	-
L2004216-02	SVP02_012920	01789	Flow 3	01/28/20	313040		-	-	-	Pass	18.0	21.3	17
L2004216-02	SVP02_012920	223	2.7L Can	01/28/20	313040	L2002919-03	Pass	-29.1	-5.2	-	-	-	-
L2004216-03	SVP03_012920	0808	Flow 3	01/28/20	313040		-	-	-	Pass	18.0	19.8	10
L2004216-03	SVP03_012920	2797	2.7L Can	01/28/20	313040	L2002919-03	Pass	-28.5	-3.8	-	-	-	-
L2004216-04	SVP04_012920	01480	Flow 3	01/28/20	313040		-	-	-	Pass	18.0	20.0	11
L2004216-04	SVP04_012920	338	2.7L Can	01/28/20	313040	L2002919-03	Pass	-29.1	-6.5	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/22/20 19:08
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2002919

Project Number: CANISTER QC BAT **Report Date:** 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	98		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 01/22/20 19:08
Analyst: TS

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2002919

Project Number: CANISTER QC BAT **Report Date:** 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2002919
Report Date: 02/05/20

Air Canister Certification Results

Lab ID: L2002919-03
Client ID: CAN 2234 SHELF 7
Sample Location:

Date Collected: 01/22/20 09:00
Date Received: 01/22/20
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	97		60-140

Project Name: 326-350 ROCKAWAY AVENUE
Project Number: 170610401

Lab Number: L2004216
Report Date: 02/05/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2004216-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2004216-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2004216-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2004216-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004216
Project Number:	170610401	**Report Date:**	02/05/20

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: Data Usability Report

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004216
Project Number:	170610401	**Report Date:**	02/05/20

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. 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 reporting limit (RL) for the sample.

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

Report Format: Data Usability Report

Project Name:	326-350 ROCKAWAY AVENUE	**Lab Number:**	L2004216
Project Number:	170610401	**Report Date:**	02/05/20

Data Qualifiers

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: Data Usability Report

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

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.

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 1/30/20

ALPHA Job #: L2004216

Client Information

Client: Langan Engineering
Address: 360 W 31st St, 8th Fl
New York, NY 10001
Phone: (212) 479-5400
Fax: (212) 479-5444
Email: ksemon@langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 326-350 Rockaway Ave.
Project Location: Brooklyn, NY
Project #: 170610401
Project Manager: Kim Semon (Del 6d)
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☒ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐ Please also email results to determanagement@langan.com

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH (Subtract Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
4216-01	SVP01-012920	1-29-20	1005	1205	-30.59	SV	-4.65	EWM	2.7	2078	01385	X					
-02	SVP02-012920		1035	1235	-30.48	SV	-5.50	EWM		223	01789	X					
-03	SVP03-012920		1120	1320	-29.95	SV	-5.10	EWM		2797	0808	X					
-04	SVP04-012920		1135	1335	-30.48	SV	-7.50	EWM		358	01480	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type 2.7L

Relinquished By:	Date/Time	Received By:	Date/Time:
	1-29-20 1641		1/29/20 17:10
	1/29/20 16:56		1/30/20 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.