

June 11, 2018

Hal Fetner
Fetner Properties, Inc
675 Third Avenue, Suite 2800
New York, New York 10017

**Re: Subsurface Investigation Letter Report
266-270 West 96th Street
New York, New York
Langan Project No.: 170432001**

Dear Mr. Fetner:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a subsurface investigation on behalf of Fetner Properties for the property located at 266-270 West 96th Street. The purpose of this investigation was to evaluate possible impacts to soil, groundwater, and soil vapor resulting from historical use of the site and the surrounding properties. This letter report provides a site background, investigation methodology, investigation results, and conclusions.

Site Background

The site is located in an urban area in the Upper West Side neighborhood of Manhattan, New York. The site encompasses an area of about 10,700 square feet (0.24 acres) and is identified on the Manhattan Borough Tax Map as Block 1243, Lots 57, 59 and 60. The site is on the city block bound by West 96th Street to the north, Broadway to the east, West 95th Street to the south, and West End Avenue to the west. Lot 57 is improved with a vacant three-story building with a cellar level that most recently operated as a power substation for the New York City Metro Transit Authority (MTA). Lots 59 and 60 are improved with two-story commercial buildings with full cellars and exterior patio spaces operated by the Salvation Army and National Association for the Advancement of Colored People (NAACP), respectively. Historical operations on the site included a power substation (1912 - 2005) on Lot 57 and a dry cleaning facility (1950 - 1968) on Lot 60.

Additionally, two, active, 275-gallon No.2 fuel oil above ground storage tanks (ASTs) were observed in the cellar of the building on Lot 60 during a Phase I Environmental Site Assessment (ESA) prepared by Langan in February 2018. The ASTs and flooring in the vicinity of the ASTs appeared to be in good condition with no indications of a release to the subsurface.

Field Investigation

The Subsurface Investigation was implemented between May 15 and 25, 2018 and included:

- A geophysical survey to locate potential underground storage tanks (USTs) and other subsurface structures
- Advancement of 8 soil borings to depths ranging from 3 to 12 feet below cellar grade and collection of 15 soil samples, including a duplicate; and
- Installation of six sub-slab soil vapor sampling points and collection of six soil vapor samples and one ambient air sample

Groundwater was not observed in any of the soil borings; therefore, monitoring well installation and groundwater sampling were not conducted during the investigation.

Geophysical Survey

NOVA Geophysical Services (NOVA) conducted a geophysical survey under the supervision of a Langan field scientist to identify USTs and other subsurface structures beneath the basement and ground floor slabs. The survey included ground penetrating radar (GPR) and electromagnetic (EM) detectors.

Soil Investigation

Eight soil borings (SB-01 through SB-08) were advanced at the site by AARCO Environmental Services Corp. (AARCO) on May 15, 16 and 25, 2018. Langan field personnel documented drilling activities and collected samples. Soil boring locations are shown on Figure 1. Soil borings were advanced until refusal using a Geoprobe 420M[®] drill rig. Refusal depths ranged from 3 (SB-04) to 12 (SB-02) feet below cellar grade. Extracted soil was inspected for visual and olfactory evidence of impacts and screened for organic vapors with a photoionization detector (PID). A total of 15 grab soil samples, including one duplicate sample, were collected for laboratory analyses. Samples were generally collected from the upper two feet and from the two-foot interval above the refusal depth at each boring. A third sample was collected from the interval exhibiting the highest PID readings and/or visual and olfactory indications of impacts, if encountered. Soil boring logs are provided as Attachment 2.

Samples were collected into laboratory-supplied containers and delivered via courier under standard chain-of-custody protocol to Alpha Analytical Laboratories (Alpha). Alpha is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, pesticides, and polychlorinated biphenyls (PCBs).

Soil Vapor Investigation

Six sub-slab soil vapor points (SV01 through SV06) were installed by AARCO on May 16 and 25, 2018. Vapor point installation was documented by Langan field personnel. Sub-slab soil vapor points were installed within the buildings at a depth of approximately three to six inches below the existing building slabs. At each sub-slab soil vapor location, dedicated polyethylene tubing was inserted into a 7/8-inch-diameter borehole. The annulus around the tubing was filled with clean sand to just below the underside of the floor slab. Bentonite slurry was then used to seal the top of the sample point. Soil vapor points and the ambient air sample locations are shown on Figure 2.

One ambient air sample (AA01) and four sub-slab soil vapor samples (SV03 through SV06) were collected on May 16, 2018, and two sub-slab soil vapor samples (SV01 and SV02) were collected on May 25, 2018. An indoor air sample was not collected because the existing buildings will be demolished as part of site redevelopment. Each soil vapor point was purged using a MultiRAE five-gas meter at an approximate rate of 0.2 liters per minute (L/min) to evacuate a minimum of three tubing/vapor point volumes prior to sample collection. The ambient air and soil vapor samples were collected into laboratory-supplied, batch-certified, 2.7 or 6-liter Summa® canisters that were calibrated for a 2-hour sampling period. Soil vapor and ambient air sampling logs are provided as Attachment 3.

The canisters were labeled and transported via courier to Alpha following standard chain-of-custody protocols. Soil vapor and ambient air samples were analyzed for VOCs via United States Environmental Protection Agency (USEPA) Method TO-15.

Observations and Results

Geophysical Survey

The geophysical survey did not identify anomalies consistent with the presence of USTs. Utility lines were identified entering the buildings from the northern boundary of the site. A copy of the geophysical survey report is provided as Attachment 1.

Soil Observations

The site is underlain by fill material predominantly consisting of brown, fine- to medium-grained sand with varying amounts of silt, gravel, clay, asphalt, concrete, brick, and glass. The fill was observed to depths ranging from 3 to 8 feet below cellar grade. Medium-dense fine-grained silty sand with varying amounts of gravel and clay was observed below the fill layer in half of the boring locations and medium-dense fine-grained sand with varying amounts of gravel, silt, clay, and decomposed bedrock was observed below the fill layer in the other half of the eight boring locations.

Evidence of impacts (e.g., sheen, petroleum-like odors, and PID readings above background) in the historic fill were observed from about 4 to 6 feet bgs in boring location SB-02 located on the southern portion of Lot 59.

Soil Analytical Results

SVOCs were detected at concentrations above the Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use (UU) and/or Restricted Use Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs) in soil samples collected from across the site footprint. One VOC (acetone) and one pesticides (4-4'-DDT) were detected at concentrations above the Part 375 UU SCO in soil samples collected from the western portion of the site; these constituents were not detected above RRU SCOs. Acetone is a common lab disinfectant and is not considered to be indicative of the subsurface conditions. Four metals (copper, lead, mercury, and zinc) were detected at concentrations above the Part 375 UU SCOs in soil samples collected from across the site footprint; these constituents were not detected above RRU SCOs. PCBs were not detected above the UU SCOs. Soil sample analytical results are provided on Table 1.

Soil Vapor and Ambient Air Analytical Results

Petroleum-related VOCs and chlorinated VOCs (CVOCs) were detected in soil vapor samples collected site-wide at concentrations above those detected in the ambient air sample. There are no standards or guidance values in New York State for VOCs in soil vapor. Four of the seven VOCs that can be evaluated using the Decision Matrices in New York State Department of Health's (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) were either not detected or detected at a concentration that requires no further action. When applied to the Soil Vapor/ Indoor Air Matrices, the recommended outcome range for cis-1,2-dichloroethene, PCE, and TCE detected in soil vapor samples is "no further action" to "mitigate". Soil vapor and ambient air analytical results are provided on Table 2.

The laboratory analytical reports for soil and soil vapor are provided as Attachment 4.

Conclusions

Site soil contains SVOCs, pesticides, and metals at concentrations exceeding UU and/or RRU SCOs. Concentrations of SVOCs and metals detected above the UU and RRR SCOs in historic fill are within the range associated with typical historic fill material in New York City, with the exception of SVOC concentrations from the soil sample collected from soil boring SB02 from 4 to 6 feet bgs, which are attributed to observed chemical-like impacts.

Site soil vapor contains petroleum and chlorinated VOCs above ambient air concentrations. According to the NYSDOH Decision Matrices, concentrations of cis-1,2-dichloroethene, PCE and TCE in soil vapor, warrant actions ranging from “no further action” to “mitigation”. Petroleum and chlorinated VOC impacts in soil vapor are likely related to historical use of the site and surrounding properties.

Sincerely,

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

Brian Gochenaur, QEP
Senior Project Manager

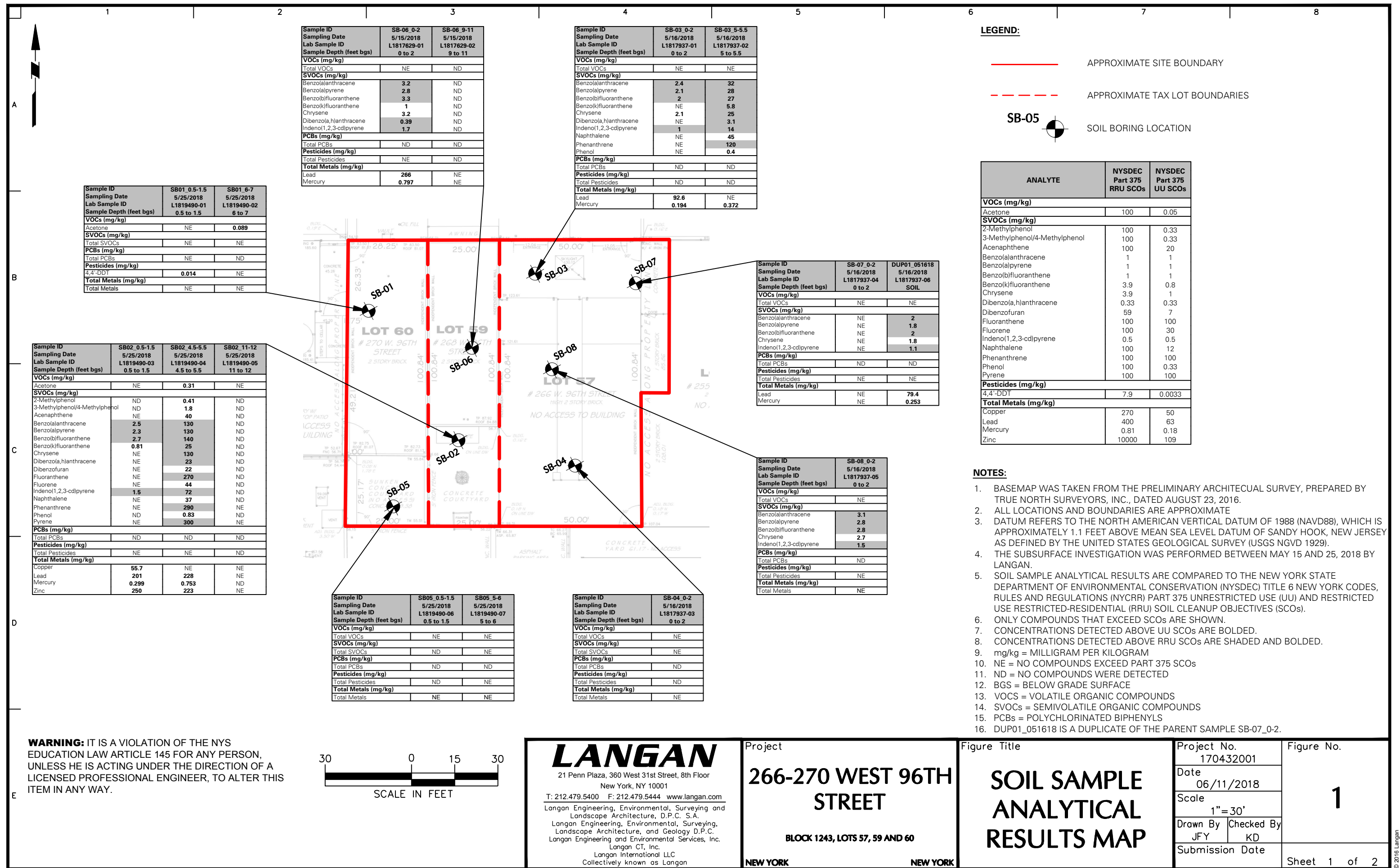
Mimi S. Raygorodetsky
Senior Associate/Vice President

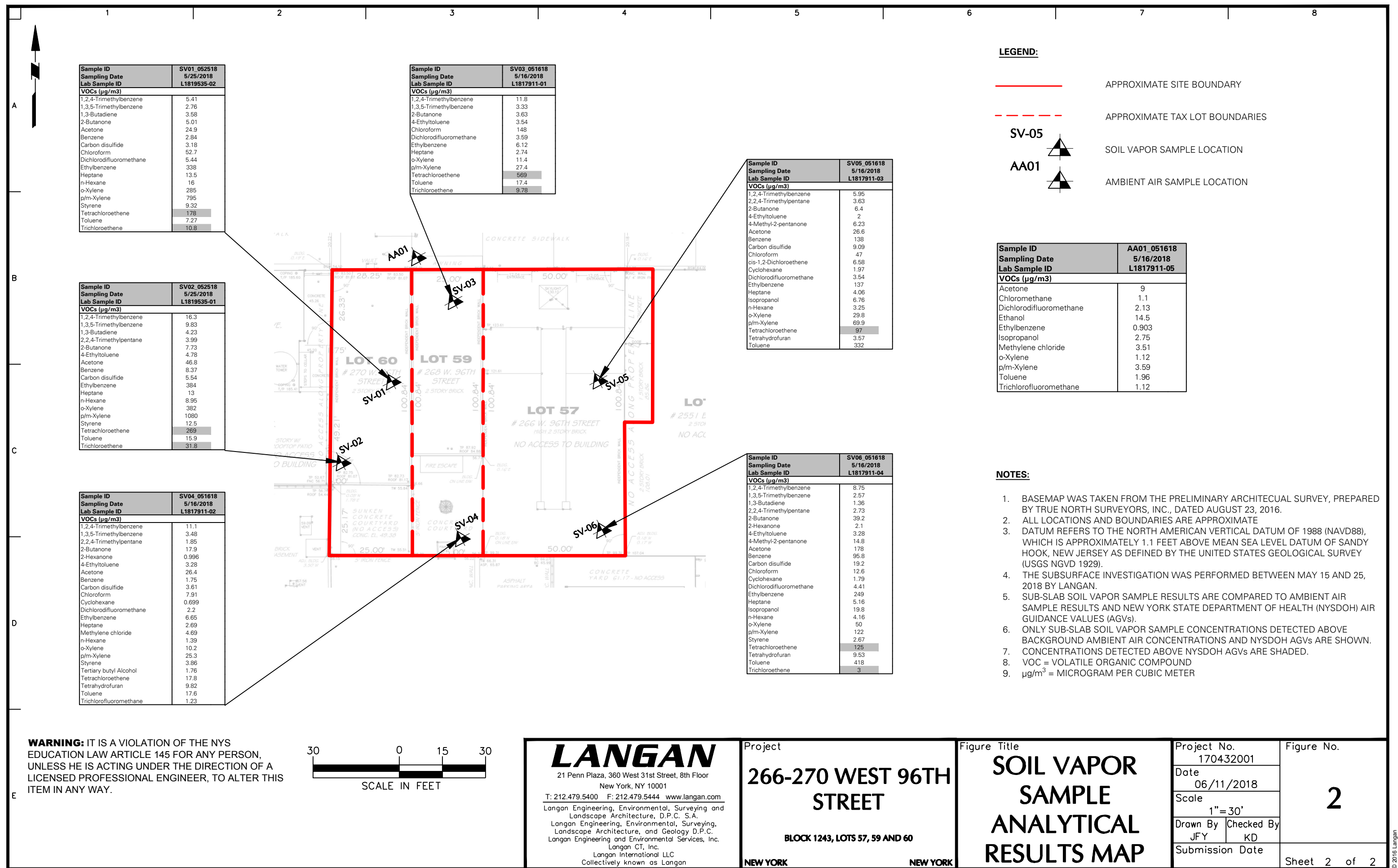
Enclosures: Figure 1 – Soil Sample Analytical Results Map
 Figure 2 – Soil Vapor Sample Analytical Results Map

 Table 1 – Soil Sample Analytical Results Summary
 Table 2 – Soil Vapor Sample Analytical Results Summary

 Attachment 1 – Geophysical Survey
 Attachment 2 – Soil Boring Logs
 Attachment 3 – Soil Vapor Sampling Logs
 Attachment 4 – Laboratory Analytical Reports

Figures





Tables

Table 1
Soil Sample Analytical Results Summary
Subsurface Investigation Report
266-270 West 96th Street, New York, New York
Langan Project No. 170432001

Sample ID	NYSDEC Part	NYSDEC Part	SB01_0.5-1.5	SB01_6-7	SB02_0.5-1.5	SB02_4.5-5.5	SB02_11-12	SB-03_0-2	SB-03_5-5.5	SB-04_0-2	SB05_0.5-1.5	SB05_5-6	SB-06_0-2	SB-06_9-11	SB-07_0-2	DUP01_051618	SB-08_0-2	
Sampling Date	375 RRU	375 UU SCOs	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/16/2018	5/16/2018	5/16/2018	5/25/2018	5/25/2018	5/15/2018	5/15/2018	5/16/2018	5/16/2018	5/16/2018	
Lab Sample ID	SCOs	SCOs	L1819490-01	L1819490-02	L1819490-03	L1819490-04	L1819490-05	L1817937-01	L1817937-02	L1817937-03	L1819490-06	L1819490-07	L1817629-01	L1817629-02	L1817937-04	L1817937-06	L1817937-05	
Sample Depth (feet bgs)			0.5 to 1.5	6 to 7	0.5 to 1.5	4.5 to 5.5	11 to 12	0 to 2	5 to 5.5	0 to 2	0.5 to 1.5	5 to 6	0 to 2	9 to 11	0 to 2	0 to 2	0 to 2	
Volatile Organic Compounds (VOCs) (mg/kg)																		
1,2,4,5-Tetramethylbenzene	~	~	0.0039	U	0.00087	J	0.0045	U	0.41	U	0.0038	U	0.0037	U	0.0041	U	0.0056	U
1,2,4-Trichlorobenzene	~	~	0.0048	U	0.016	U	0.0057	U	0.51	U	0.0047	U	0.0046	U	0.0052	U	0.007	U
1,2,4-Trimethylbenzene	52	3.6	0.0048	U	0.016	U	0.0057	U	0.023	J	0.0047	U	0.0046	U	0.0052	U	0.007	J
1,3,5-Trimethylbenzene	52	8.4	0.0048	U	0.016	U	0.0057	U	0.51	U	0.0047	U	0.0046	U	0.0052	U	0.007	U
2-Butanone	100	0.12	0.0097	U	0.012	J	0.011	U	7	U	0.0094	U	0.013	U	0.76	U	0.71	U
Acetone	100	0.05	0.013		0.089		0.0045	J	0.31	J	0.0066	J	0.013	U	0.76	U	0.71	U
Benzene	4.8	0.06	0.00097	U	0.0031	U	0.0011	U	0.022	J	0.00094	U	0.0013	U	0.076	U	0.071	U
Carbon disulfide	~	~	0.0097	U	0.031	U	0.011	U	1	U	0.0094	U	0.013	U	0.76	U	0.71	U
Chloroform	49	0.37	0.0014	U	0.0047	U	0.0017	U	0.15	U	0.0014	U	0.0019	U	0.11	U	0.11	U
Ethylbenzene	41	1	0.00039	J	0.0031	U	0.0011	U	0.1	U	0.00094	U	0.0013	U	0.026	J	0.027	J
Naphthalene	100	12	0.0048	U	0.0014	J	0.0016	J	4		0.0047	U	0.0018	J	4.2		3.4	
p-Ethyltoluene	~	~	0.0039	U	0.012	U	0.0045	U	0.41	U	0.0038	U	0.0051	U	0.038	J	0.036	J
p/m-Xylene	~	~	0.0012	J	0.0062	U	0.00054	J	0.2	U	0.0019	U	0.0025	U	0.15	U	0.14	U
Tetrachloroethene	19	1.3	0.0014		0.0031	U	0.0011	U	0.18		0.00094	U	0.0011	J	0.076	U	0.071	U
Toluene	100	0.7	0.0014	U	0.0047	U	0.0017	U	0.03	J	0.0014	U	0.0019	U	0.11	U	0.11	U
Xylenes, Total	100	0.26	0.0012	J	0.0062	U	0.00054	J	0.2	U	0.0019	U	0.0025	U	0.15	U	0.14	U
Semivolatile Organic Compounds (SVOCs) (mg/kg)																		
2,4-Dimethylphenol	~	~	0.18	U	0.19	U	0.18	U	0.7	J	0.18	U	0.19	U	0.95	U	0.19	U
2-Methylnaphthalene	~	~	0.21	U	0.23	U	0.05	J	17		0.22	U	1.2		0.035	J	1.2	
2-Methylphenol	100	0.33	0.18	U	0.19	U	0.18	U	0.41	J	0.18	U	0.19	U	0.95	U	0.19	U
3-Methylphenol/4-Methylpheno	100	0.33	0.26	U	0.28	U	0.26	U	1.8	J	0.26	U	0.079	J	1.1	J	0.28	J
Acenaphthene	100	20	0.022	J	0.15	U	0.24		40		0.14	U	1.3		18		1.6	
Acenaphthylene	100	100	0.14	U	0.15	U	0.41		14		0.14	U	0.1	J	1.4		0.15	
Anthracene	100	100	0.063	J	0.12	U	0.73		91		0.11	U	2.5		32		3.3	
Benzo(a)anthracene	1	1	0.098	J	0.12	U	2.5		130		0.11	U	2.4		32		3.1	
Benzo(a)pyrene	1	1	0.084	J	0.15	U	2.3		130		0.14	U	2.1		28		2.8	
Benzo(b)fluoranthene	1	1	0.096	J	0.12	U	2.7		140		0.11	U	2		27		2.8	
Benzo(ghi)perylene	100	100	0.044	J	0.15	U	1.4		76		0.14	U	1.1		15		1.6	
Benzo(k)fluoranthene	3.9	0.8	0.031	J	0.12	U	0.81		25		0.11	U	0.63		5.8		0.78	
Biphenyl	~	~	0.41	U	0.44	U	0.42	U	4.7		0.41	U	0.29	J	4		0.33	J
Bis(2-ethylhexyl)phthalate	~	~	0.071	J	0.19	U	0.18	U	1.9	U	0.18	U	0.071	J	0.95	U	0.11	J
Carbazole	~	~	0.022	J	0.19	U	0.16	J	18		0.18	U	0.41		5.4		0.72	
Chrysene	3.9	1	0.091	J	0.12	U	2.3		130		0.11	U	2.1		25		2.7	
Dibenzo(a,h)anthracene	0.33	0.33	0.11	U	0.12	U	0.32		23		0.11	U	0.22		3.1		0.3	
Dibenzofuran	59	7	0.18	U	0.19	U	0.08	J	22		0.18	U	0.39		5.5		0.72	
Fluoranthene	100	100	0.23		0.029	J	4.6		270		0.11	U	5.1		65		7	
Fluorene	100	30	0.029	J	0.19	U	0.23		44		0.18	U	1.4		19		1.7	
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.048	J	0.15	U	1.5		72		0.14	U	1		14		1.5	
Naphthalene	100	12	0.18	U	0.19	U	0.11	J	37		0.18	U	3.2		45		2.9	
Phenanthrene	100	100	0.28		0.045	J	2.9		290		0.022	J	9.7		120		12	
Phenol	100	0.33	0.18	U	0.19	U	0.18	U	0.83	J	0.18	U	0.036	J	0.4	J	0.13	J
Pyrene	100	100	0.24		0.034	J	5		300		0.024	J	6.4		80		9.1	
Polychlorinated Biphenyls (PCBs) (mg/kg)																		
Aroclor 1254	~	~	0.00503	J	0.0385	U	0.0357	U	0.038	U	0.0361	U	0.0372	U	0.0368	U	0.0385	U
Aroclor 1260	~	~	0.00404	J	0.0385	U	0.0357	U	0.038	U	0.0361	U	0.0372	U	0.0368	U	0.0385	U
PCBs, Total	1	0.1	0.00907	J	0.0385	U	0.0357	U	0.038	U	0.0361	U	0.0372	U	0.0368	U	0.0385	U
Pesticides (mg/kg)																		
4,4'-DDE	8.9	0.0033	0.00286	J	0.00117	J	0.00176	U	0.0368	U	0.00172	U	0.00177	U	0.00897	U	0.00176	U
4,4'-DDT	7.9	0.0033	0.014		0.00189	J	0.00331	U	0.0691	U	0.00322	U	0.00332	U	0.0168	U	0.00331	U
cis-Chlordane	4.2	0.094	0.00353		0.00232	U	0.0022	U	0.046	U	0.00229	U	0.00221	U	0.0112	U	0.0022	U
Endosulfan II	24	2.4	0.00164	J	0.00185	U	0.00331	U	0.124	PI	0.00172	U	0.00177	U	0.00897	U	0.0024	U
Endrin	11	0.014	0.000707	U	0.000772	U	0.000735	U	0.0154	U	0.000715	U	0.000739	U	0.00374	U	0.000735	U
trans-Chlordane	~	~	0.00341	PI	0.00232	U	0.0022	U	0.046	U	0.00214	U	0.00222	U	0.0112	U	0.0022	U
Total Metals (mg/kg)																		
Aluminum	~	~	7310		11500		7370		8230		11700		10600		9810		12800	
Antimony	~	~	1.49	J	1.96	J	2.29	J	1.52	J	3.31	J	4.4	U	4.35	U	4.28	U
Arsenic	16	13	3.32		3.31		9.14		5.82		2.63		2.78		3.1		4.61	
Barium	400	350	47.3		38.2		132		78.5		50.9		65.8		56.8		73.5	
Beryllium	72	7.2	0.23	J	0.301	J	0.209	J	0.236	J	0.315	J	0.299	J	0.279	J	0.326	

Table 1
Soil Sample Analytical Results Summary
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P = The relative percent difference between the results for the two columns exceed the method-specific criteria.
I = The lower value for the two columns has been reported due to obvious interference.

Table 2
Soil Vapor Sample Analytical Results Summary
Subsurface Investigation Report
266-270 West 96th Street, New York, New York
Langan Project No. 170432001

Sample ID Sampling Date Lab Sample ID	NYSDOH AGVs	AA01_051618 5/16/2018 L1817911-05	SV01_052518 5/25/2018 L1819535-02	SV02_052518 5/25/2018 L1819535-01	SV03_051618 5/16/2018 L1817911-01	SV04_051618 5/16/2018 L1817911-02	SV05_051618 5/16/2018 L1817911-03	SV06_051618 5/16/2018 L1817911-04
Volatile Organic Compounds (VOCs) (µg/m³)								
1,2,4-Trimethylbenzene	~	0.983 U	5.41	16.3	11.8	11.1	5.95	8.75
1,3,5-Trimethylbenzene	~	0.983 U	2.76	9.83	3.33	3.48	1.97 U	2.57
1,3-Butadiene	~	0.442 U	3.58	4.23	0.885 U	0.442 U	0.885 U	1.36
2,2,4-Trimethylpentane	~	0.934 U	1.87 U	3.99	1.87 U	1.85	3.63	2.73
2-Butanone	~	1.47 U	5.01	7.73	3.63	17.9	6.4	39.2
2-Hexanone	~	0.82 U	1.64 U	2.05 U	1.64 U	0.996	1.64 U	2.1
4-Ethyltoluene	~	0.983 U	1.97 U	4.78	3.54	3.28	2	3.28
4-Methyl-2-pentanone	~	2.05 U	4.1 U	5.12 U	4.1 U	2.05 U	6.23	14.8
Acetone	~	9	24.9	46.8	4.75 U	26.4	26.6	178
Benzene	~	0.639 U	2.84	8.37	1.28 U	1.75	138	95.8
Carbon disulfide	~	0.623 U	3.18	5.54	1.25 U	3.61	9.09	19.2
Chloroform	~	0.977 U	52.7	2.44 U	148	7.91	47	12.6
Chloromethane	~	1.1	0.826 U	1.03 U	0.826 U	0.413 U	0.826 U	0.826 U
cis-1,2-Dichloroethene	~	0.793 U	1.59 U	1.98 U	1.59 U	0.793 U	6.58	1.59 U
Cyclohexane	~	0.688 U	1.38 U	1.72 U	1.38 U	0.699	1.97	1.79
Dichlorodifluoromethane	~	2.13	5.44	2.47 U	3.59	2.2	3.54	4.41
Ethanol	~	14.5	18.8 U	23.6 U	18.8 U	9.42 U	18.8 U	18.8 U
Ethylbenzene	~	0.903	338	384	6.12	6.65	137	249
Heptane	~	0.82 U	13.5	13	2.74	2.69	4.06	5.16
Isopropanol	~	2.75	2.46 U	3.07 U	2.46 U	1.23 U	6.76	19.8
Methylene chloride	60	3.51	3.47 U	4.34 U	3.47 U	4.69	3.47 U	3.47 U
n-Hexane	~	0.705 U	16	8.95	1.41 U	1.39	3.25	4.16
o-Xylene	~	1.12	285	382	11.4	10.2	29.8	50
p/m-Xylene	~	3.59	795	1080	27.4	25.3	69.9	122
Styrene	~	0.852 U	9.32	12.5	1.7 U	3.86	1.7 U	2.67
Tertiary butyl Alcohol	~	1.52 U	3.03 U	3.79 U	3.03 U	1.76	3.03 U	3.03 U
Tetrachloroethene	30	1.36 U	178	269	569	17.8	97	125
Tetrahydrofuran	~	1.47 U	2.95 U	3.69 U	2.95 U	9.82	3.57	9.53
Toluene	~	1.96	7.27	15.9	17.4	17.6	332	418
Trichloroethene	2	1.07 U	10.8	31.8	9.78	1.07 U	2.15 U	3
Trichlorofluoromethane	~	1.12	2.25 U	2.81 U	2.25 U	1.23	2.25 U	2.25 U
Total VOCs	~	41.683	1758.71	2304.72	817.73	184.165	940.33	1394.91

Notes:

1. Soil vapor analytical results are compared to ambient air sample results and New York State Department of Health (NYSDOH) Air Guideline
2. Only detected analytes are shown in the table.
3. Soil vapor results that are greater than the respective ambient air results are bolded.
4. Concentrations detected above NYSDOH AGVs are shaded and bolded.
5. µg/m³ = micrograms per cubic meter
6. AA01_051618 is an ambient air sample.

Qualifiers:

U = Indicates the analyte was analyzed for but not detected.

Attachment 1
Geophysical Survey Report

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site

**266-270 West 96th Street,
New York, New York 10025**

NOVA PROJECT NUMBER

18-0787

DATED

June 8, 2018

PREPARED FOR:

LANGAN

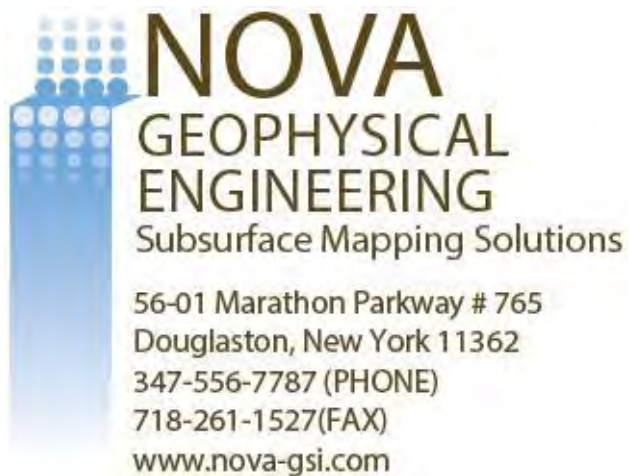
21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

www.langan.com

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS

56-01 Marathon Parkway #765, Douglaston, New York 11362

Ph. 347-556-7787 Fax. 718-261-1527

www.nova-gsi.com

June 8, 2018

Kimberly Del Col, P.E.
Senior Staff Engineer

LANGAN

21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

Direct: +1 212.479.5486

Mobile: +1 631.338.2036

Re: Geophysical Engineering Survey (GES) Report
Commercial Site
266-270 West 96th Street,
New York, New York 10025

Dear Ms. Del Col,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 266-270 West 96th Street, New York, New York 10025 (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 May 15th & May 25th, 2018.

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 transducer 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

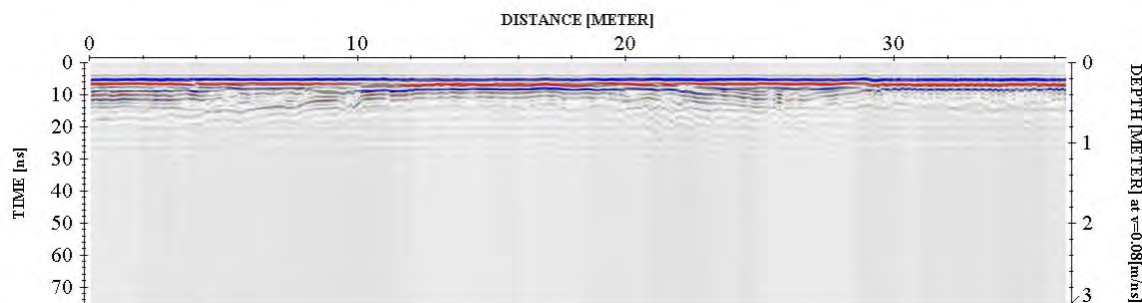
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

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

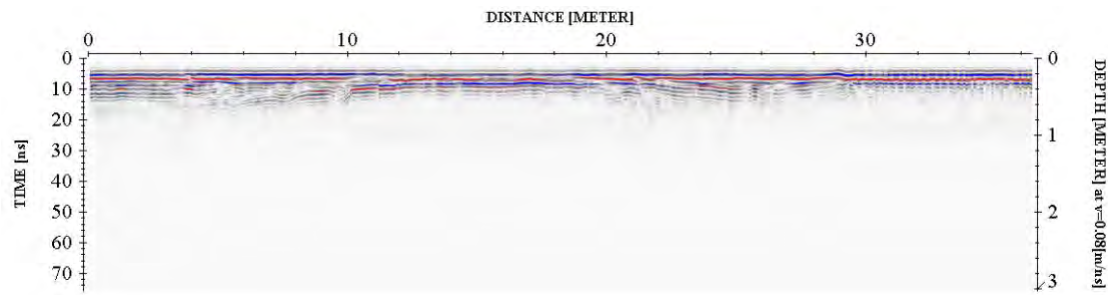


GEOPHYSICAL ENGINEERING SURVEY REPORT

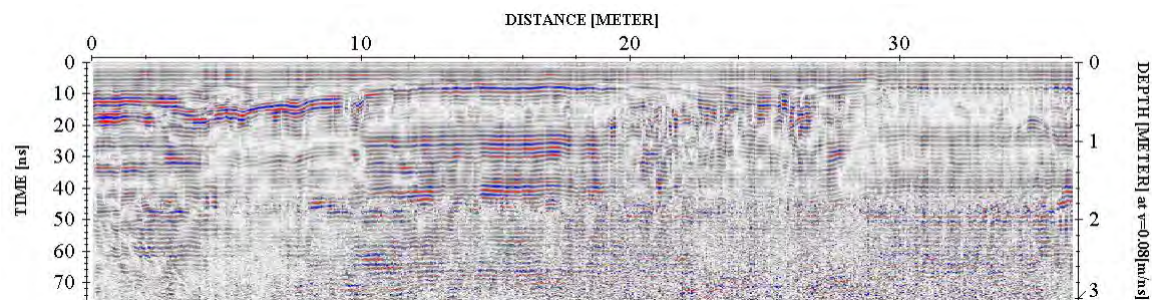
[Commercial Site](#)

266-270 West 96th Street,
New York, New York 10025

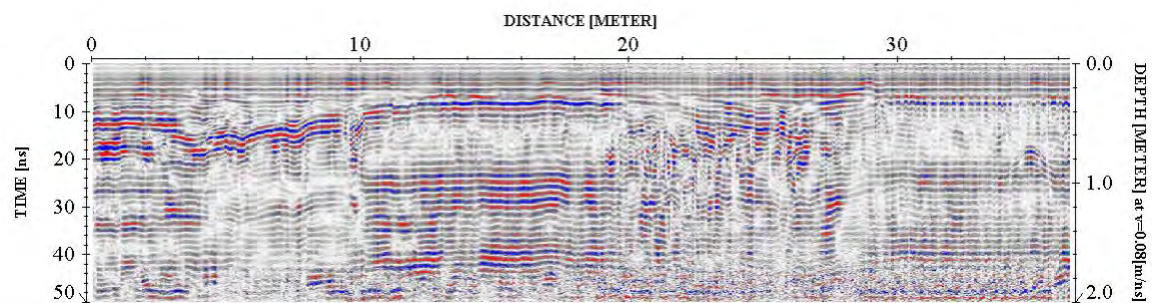
Step 2. Remove instrument noise (*dewow*)



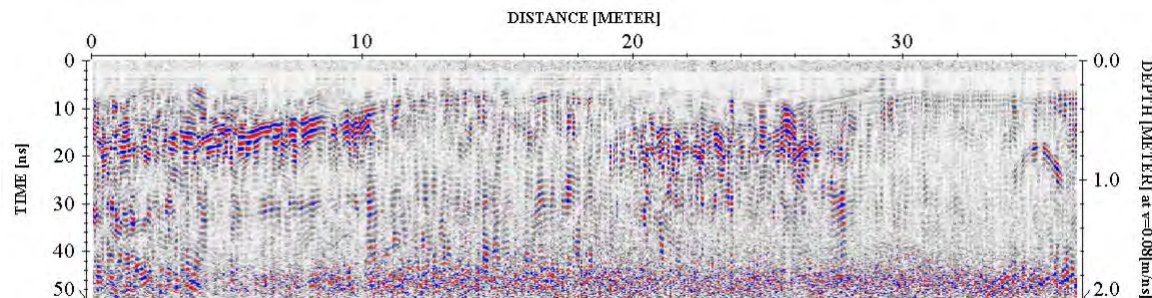
Step 3. Correct for attenuation losses (*energy decay function*)



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: Sunny

Temperature: 70° F

Surface: Concrete, Standing Water

Geophysical Noise Level: Geophysical noise at the site was high due to being located in an urban environment, portions of the site covered in standing water and site clutter causing issues scanning portions of the site.

RESULTS

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

- Water, gas, electric, and sewer service lines were determined to be entering the properties within the survey area.
- The basement for the property 266 West 96th Street was determined to be extending underneath the sidewalk. Additionally, multiple large electrical conduits were identified running through the basement as shown in the survey plan. These conduits appear to be cut off.
- A fill port was identified in the sidewalk in front of 270 West 96th Street corresponding to an above ground storage tanks (ASTs) in the basement. The location is shown on the survey plan.
- No large geophysical anomalies resembling an underground storage tank were detected in the GES.
- All detected subsurface anomalies were marked in the onsite mark out.

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site

266-270 West 96th Street,
New York, New York 10025

- NOVA cleared all of the proposed boring locations at the site.

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:

Geophysical Images

Survey Plan

Location Map

GEOPHYSICAL ENGINEERING SURVEY REPORT

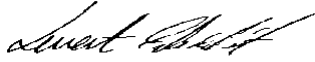
Commercial Site

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New York, New York 10025

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Sincerely,

NOVA Geophysical Services



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

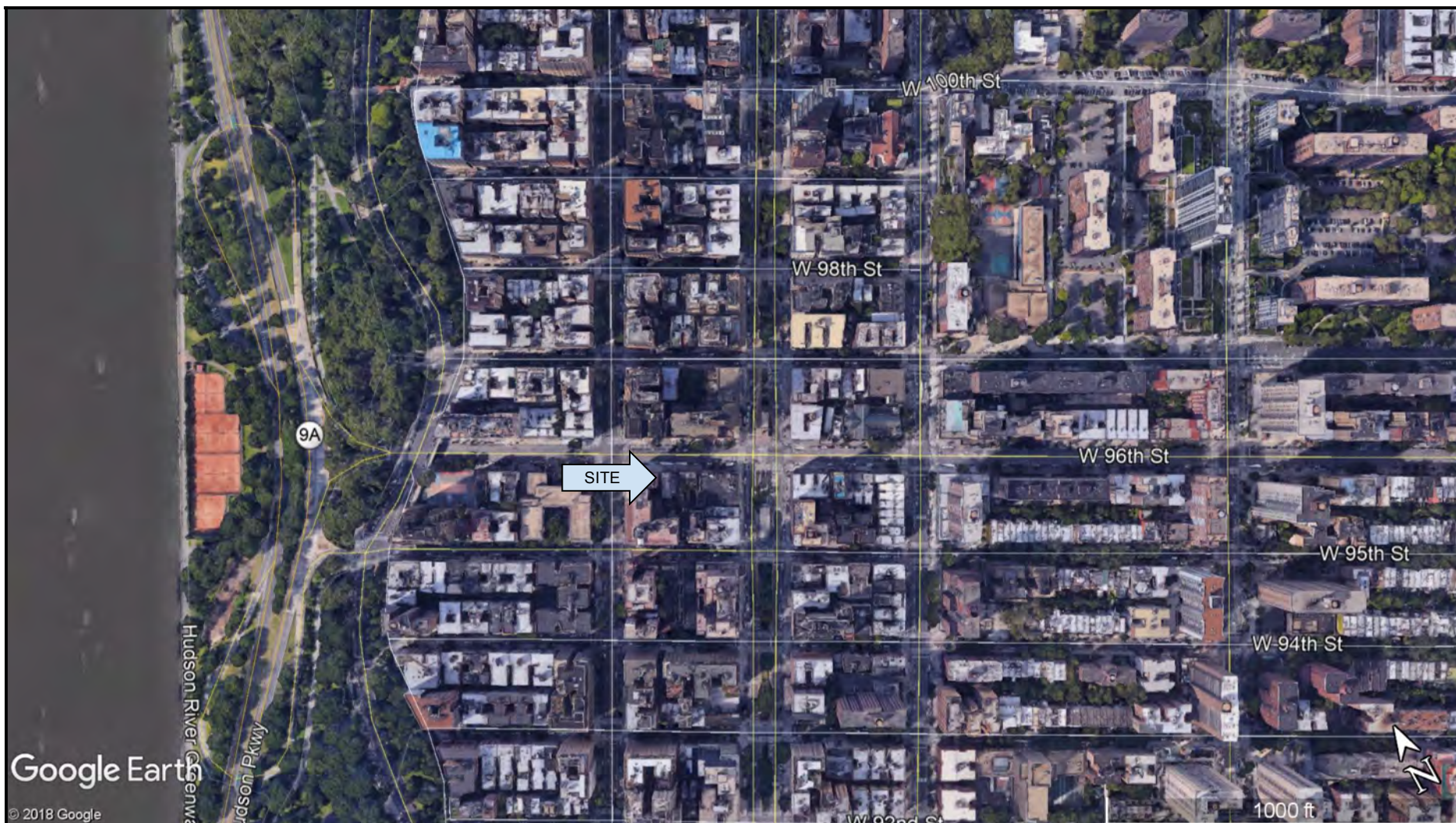
Project Engineer

Attachments:

Geophysical Images

Survey Plan

Location Map



Google Earth

© 2018 Google

SITE LOCATION MAP

LEGEND

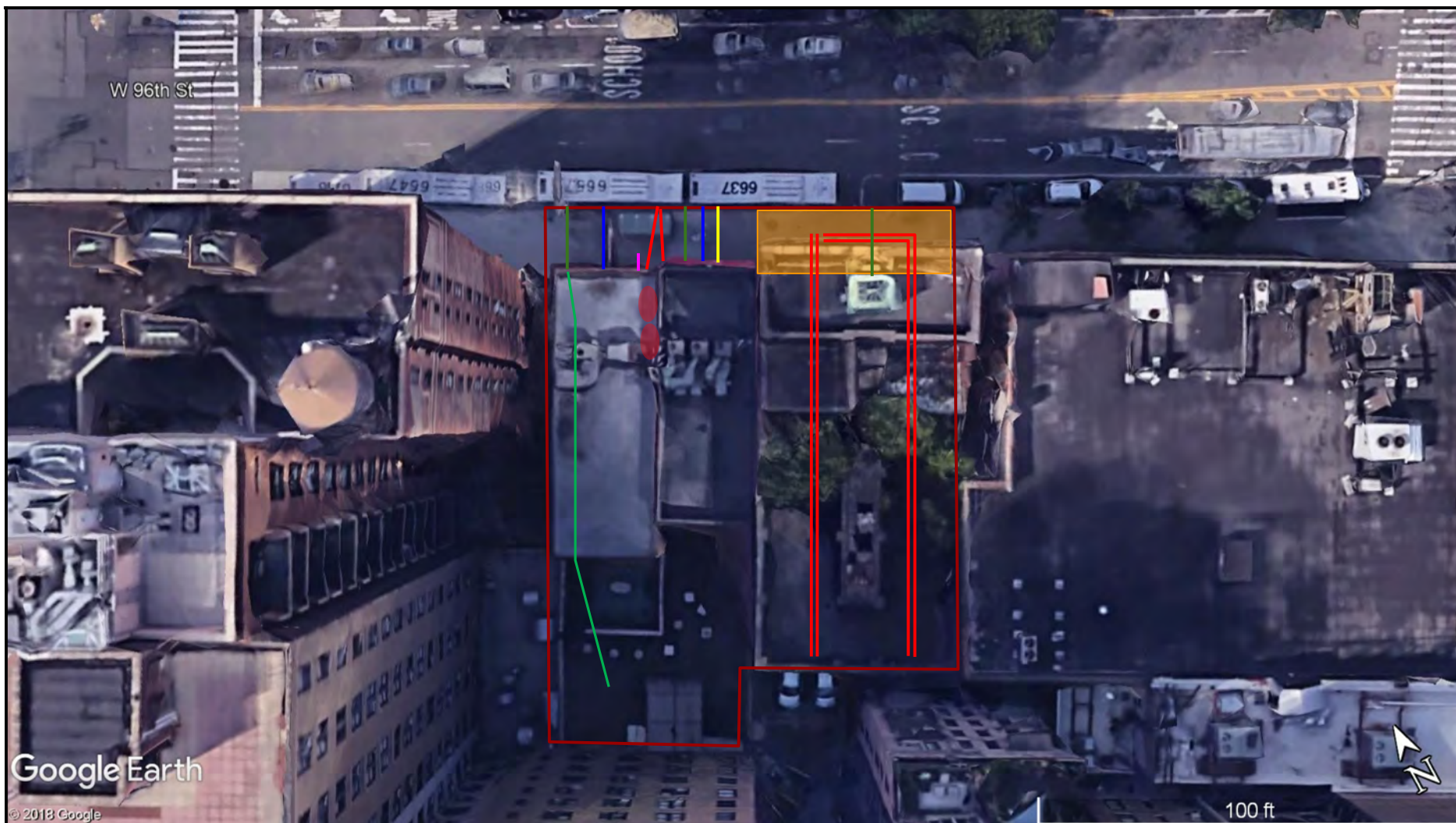
NOVA
GEOPHYSICAL
ENGINEERING
 Subsurface Mapping Solutions
 56-01 Marathon Parkway # 765
 Douglaston, New York 11362
 347-556-7787 (PHONE)
 718-261-1527 (FAX)
www.nova-gsi.com

SITE: **Commercial Site**
 266-270 West 96th Street,
 New York, New York 10025

CLIENT: Langan

DATE: May 15th, 2018 - May 25th, 2018

AUTH: Chris Steinley

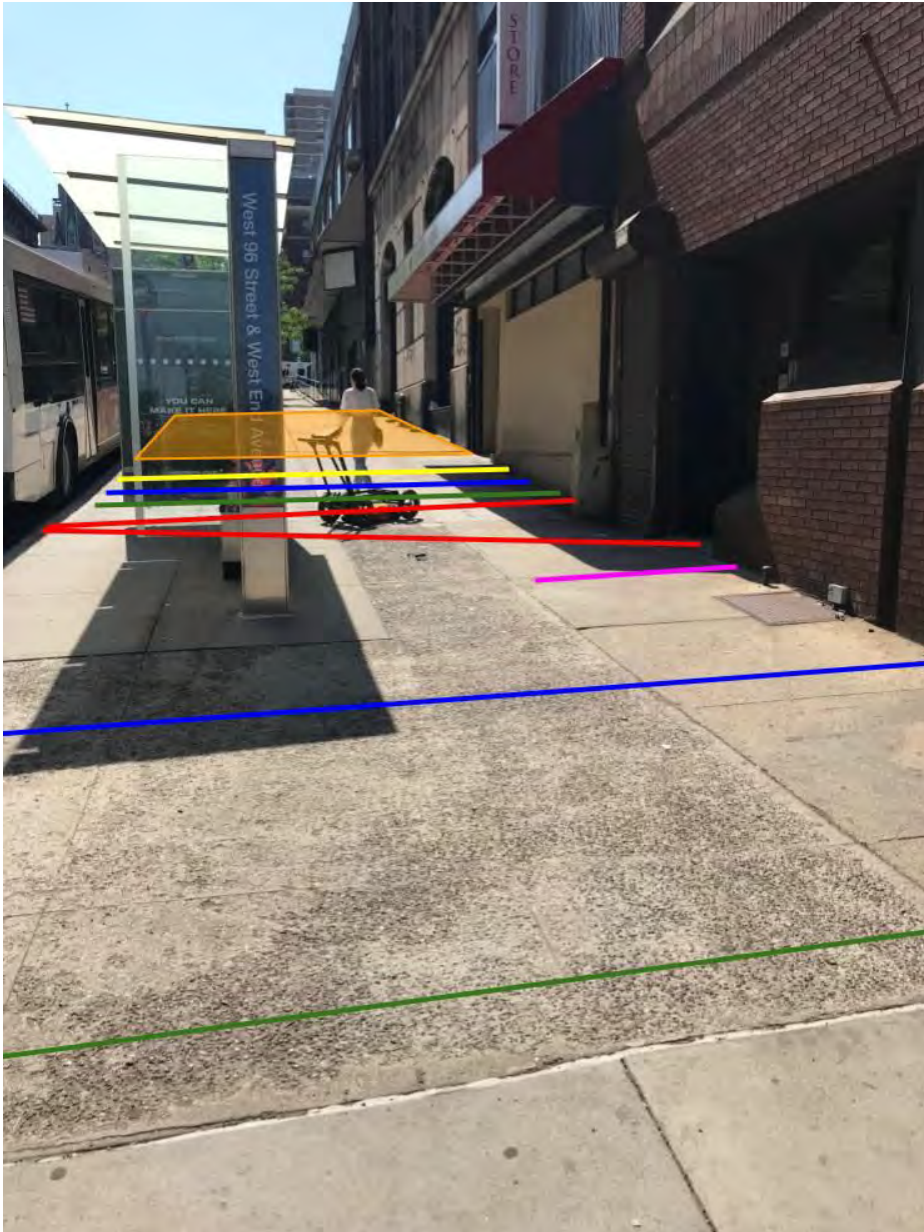


	SURVEY PLAN	LEGEND
 NOVA GEOPHYSICAL ENGINEERING Subsurface Mapping Solutions 56-01 Marathon Parkway # 765 Douglaston, New York 11362 347-556-7787 (PHONE) 718-261-1527(FAX) www.nova-gsi.com	SITE: Commercial Site 266-270 West 96th Street, New York, New York 10025 CLIENT: Langan DATE: May 15th, 2018 - May 25th, 2018 AUTH: Chris Steinley	 Survey Area  Sewer  Water  Electric  Gas  Fill Port  Basement  AST

GEOPHYSICAL IMAGES

Commercial Site

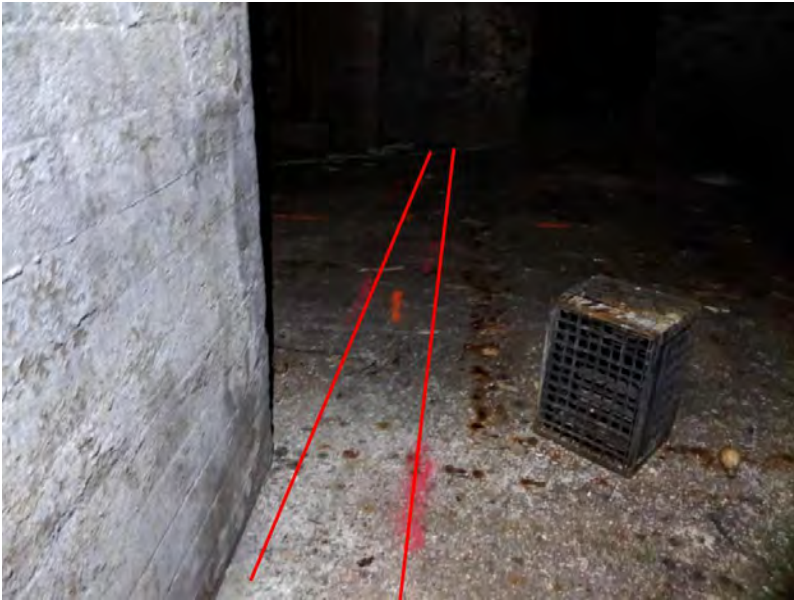
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GEOPHYSICAL IMAGES

Commercial Site

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Commercial Site

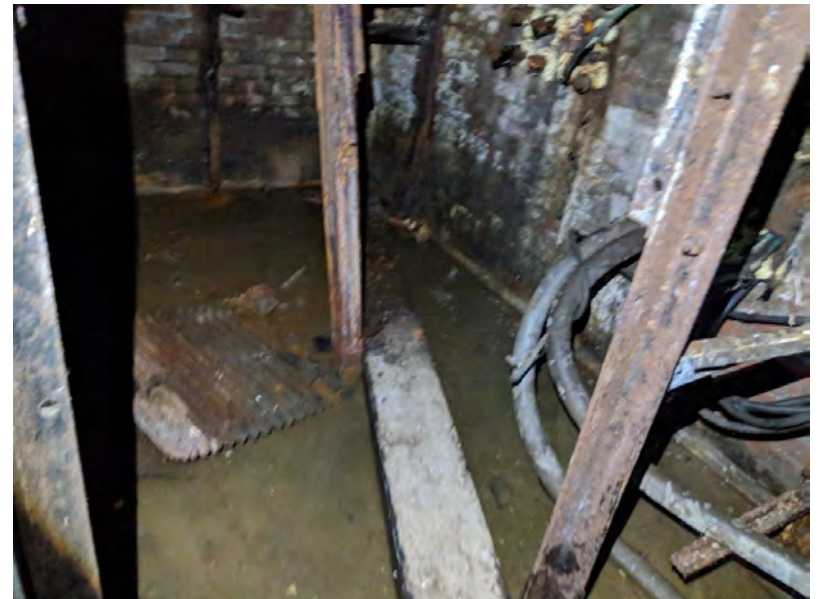
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Commercial Site

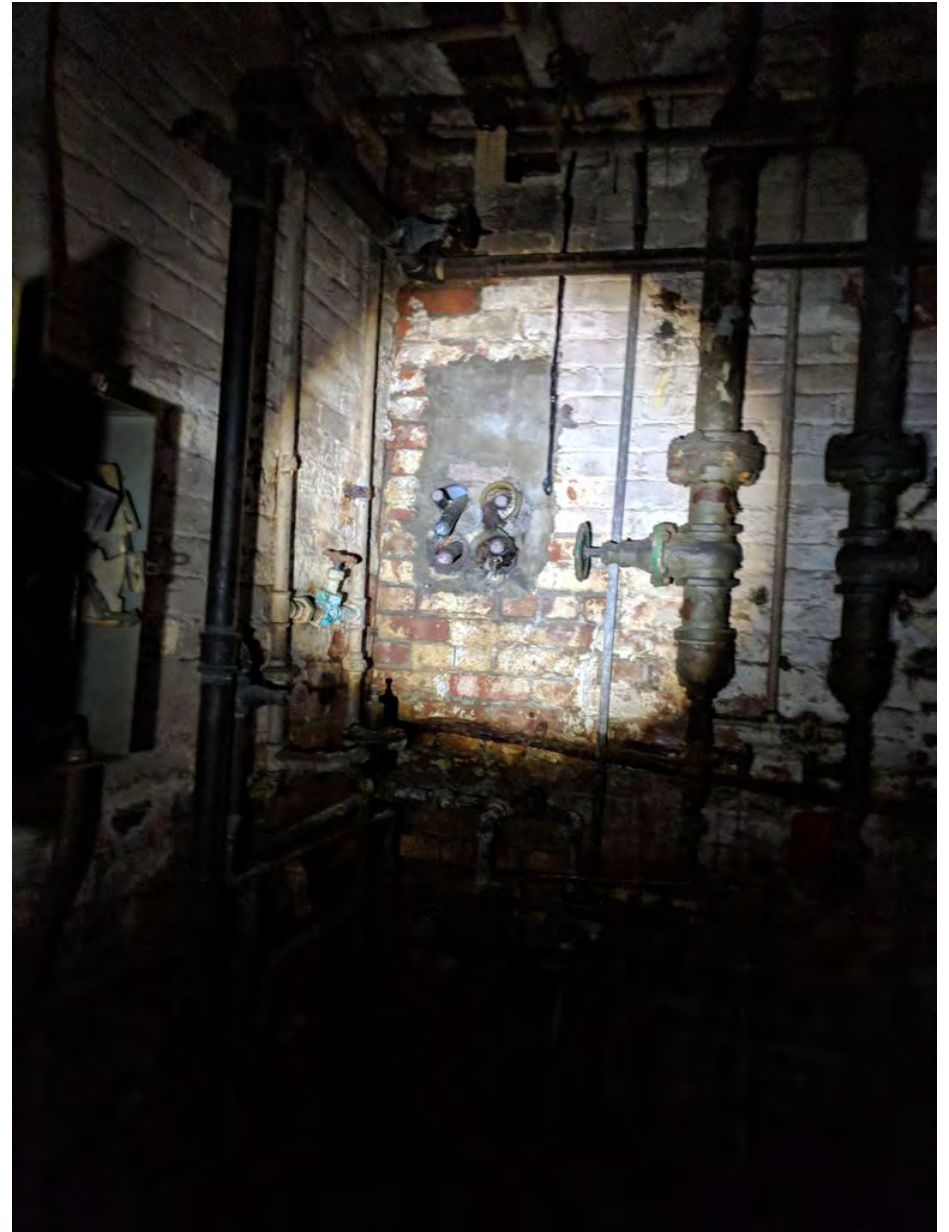
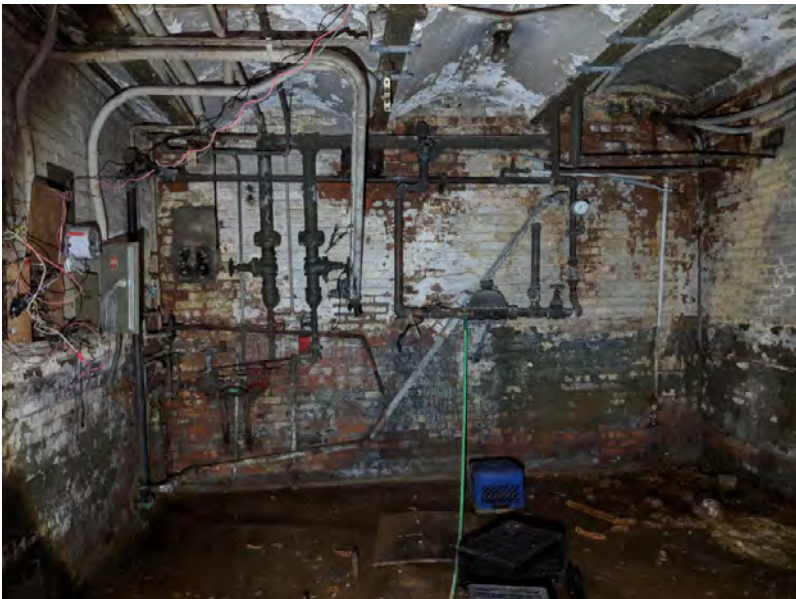
266 -270 West 96th Street,
New York, New York 10025
May 15th, 2018 - May 25th, 2018



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Commercial Site

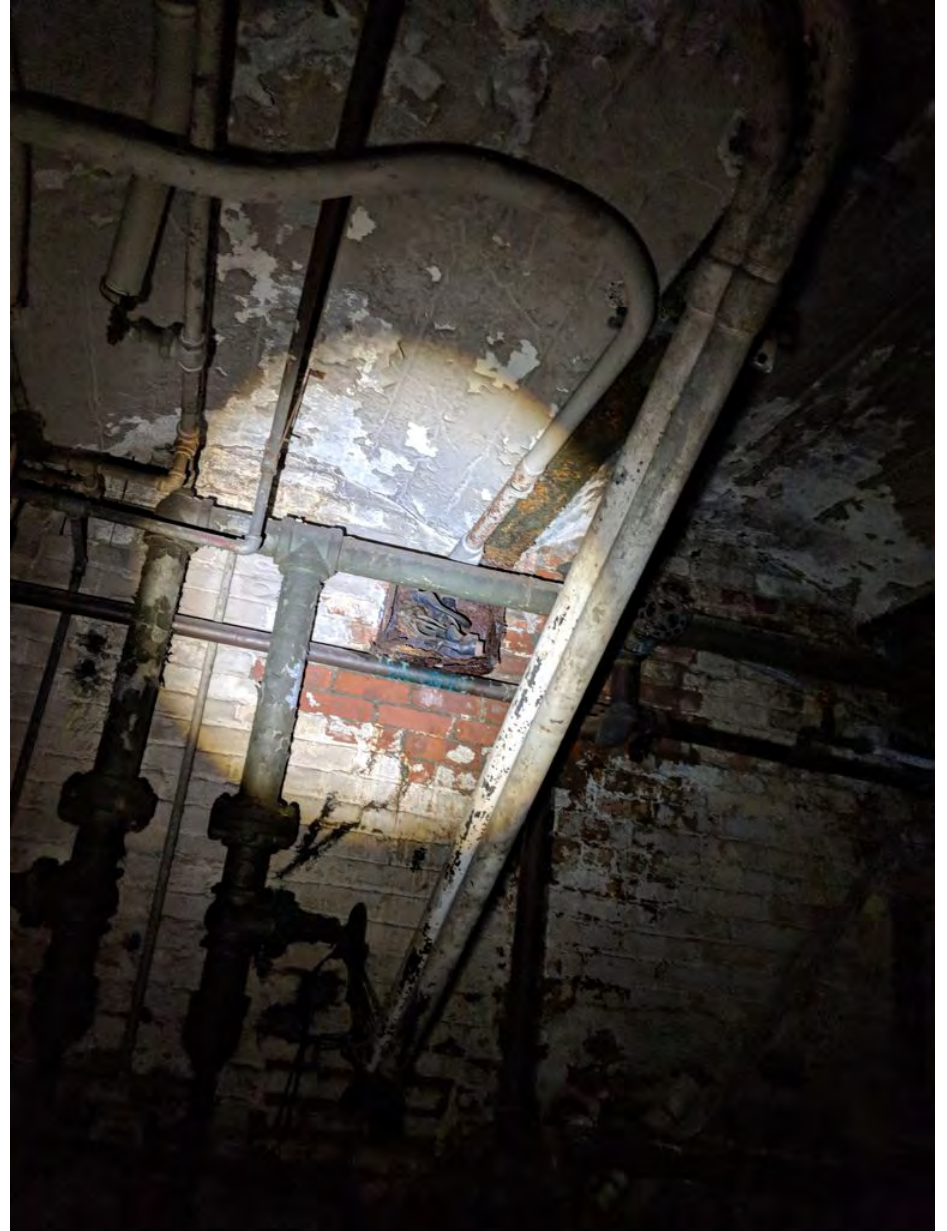
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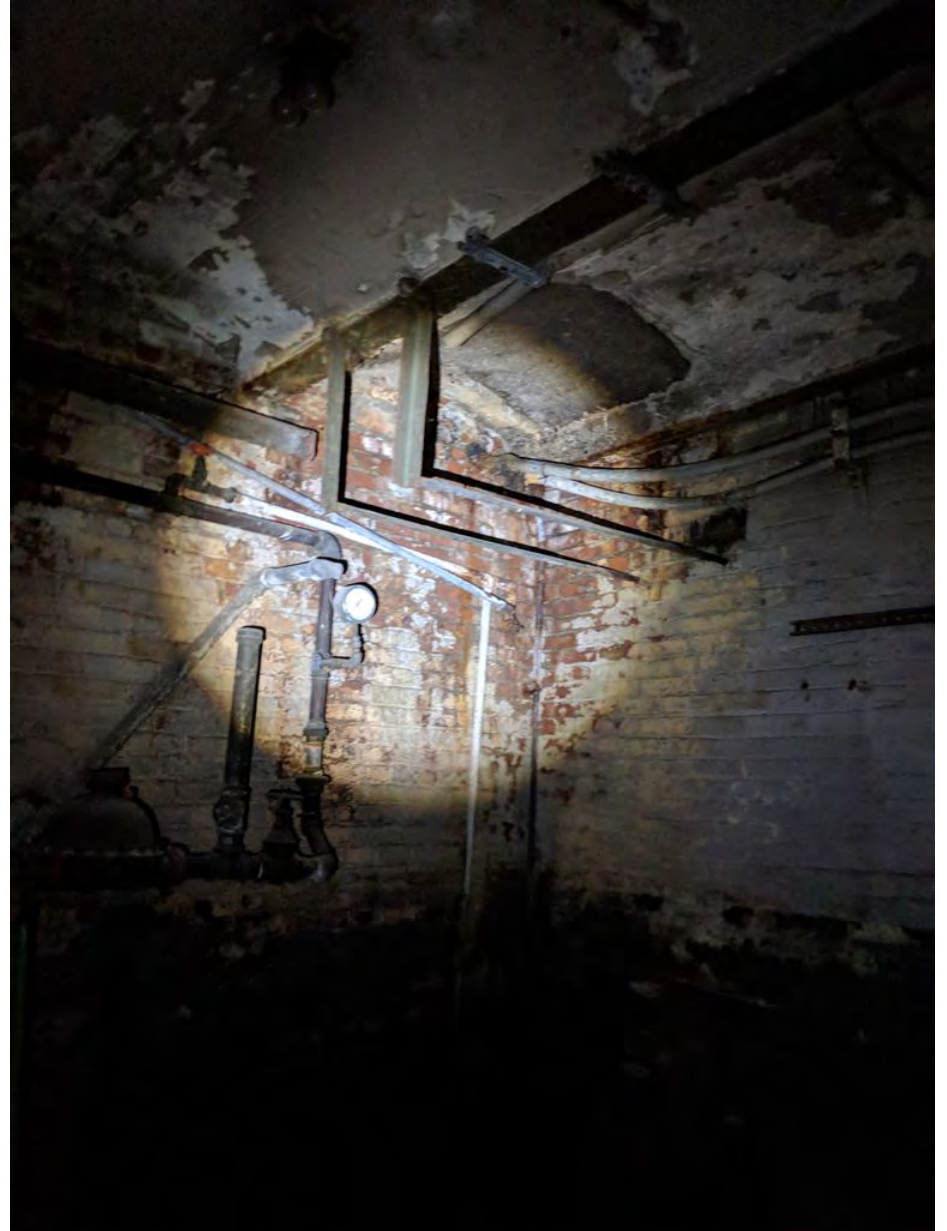
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GEOPHYSICAL IMAGES

Commercial Site

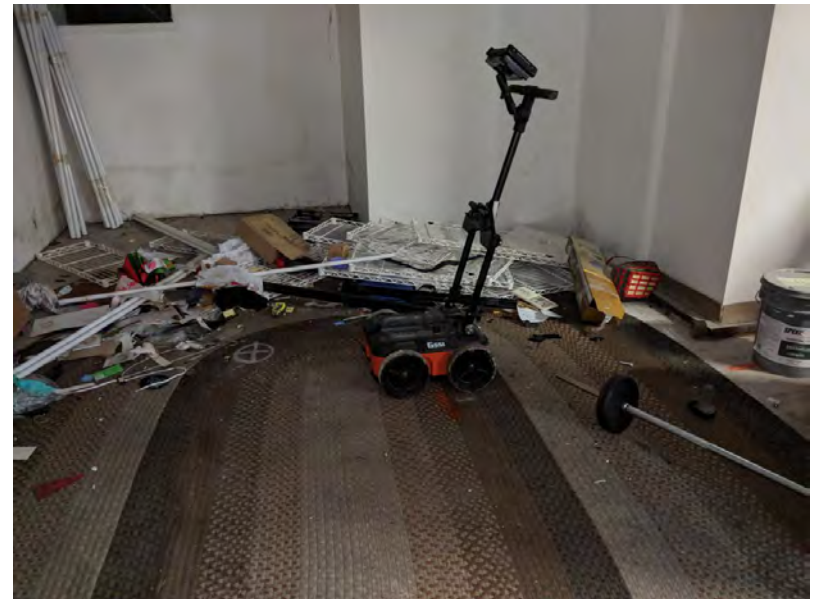
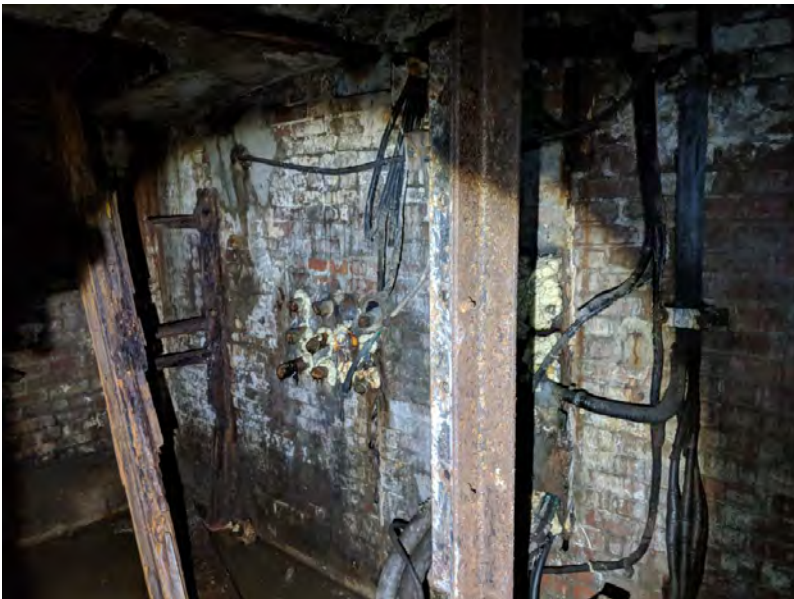
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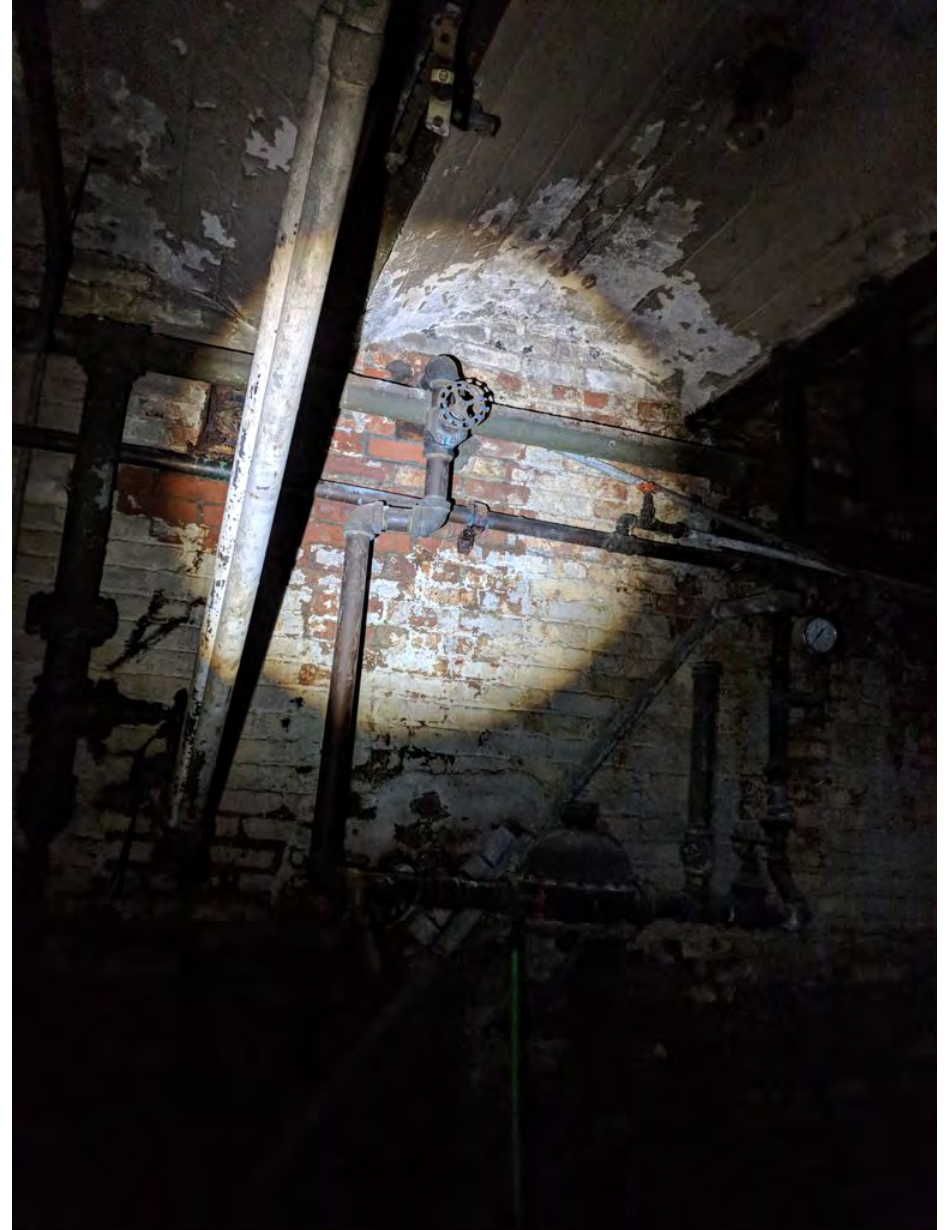
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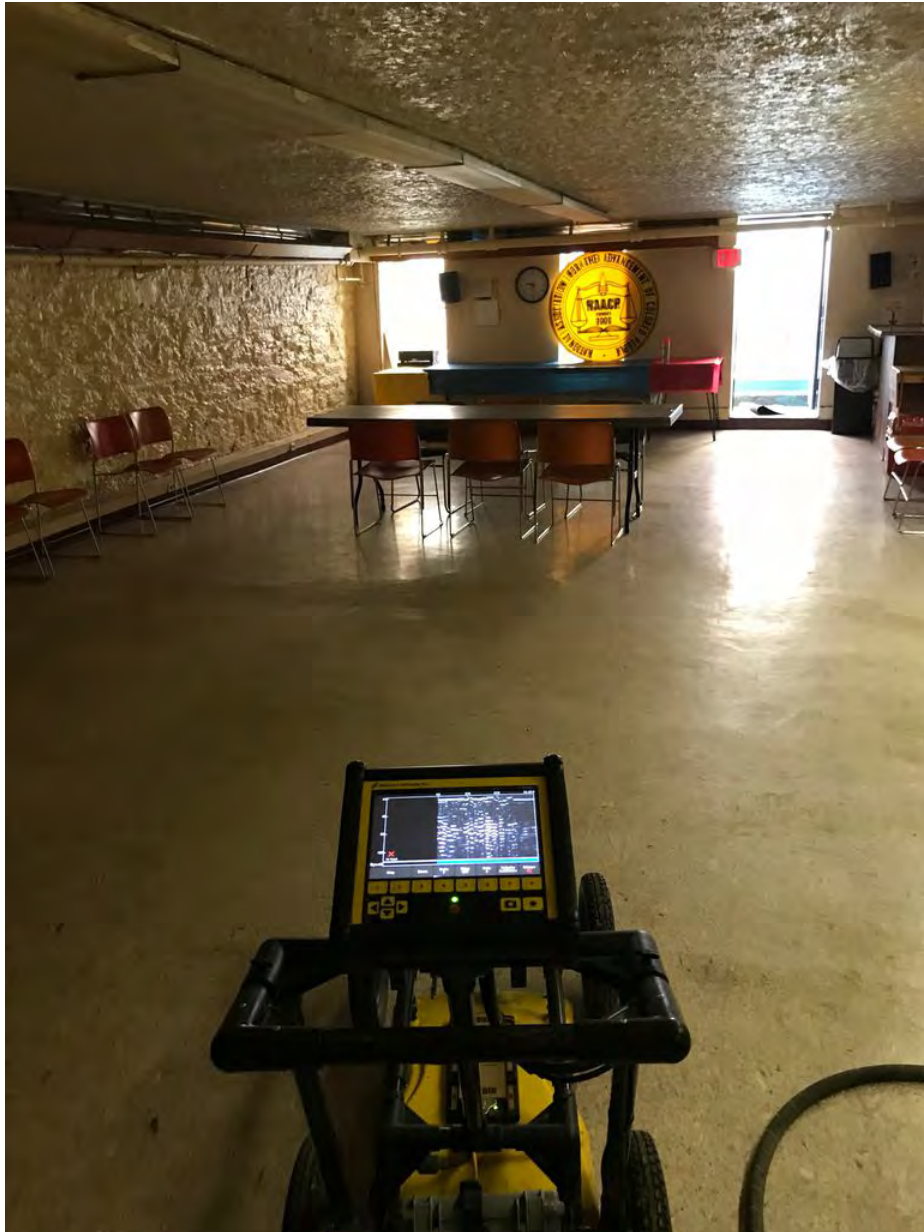
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GEOPHYSICAL IMAGES

Commercial Site

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May 15th, 2018 - May 25th, 2018



Attachment 2
Soil Boring Logs

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Project 266-270 W 96th Street				Project No. 170432001				
Location Manhattan, NY				Elevation and Datum NA				
Drilling Company AARCO Environmental Services Corp.				Date Started 5/25/18		Date Finished 5/25/18		
Drilling Equipment Geoprobe 420M				Completion Depth 7 ft		Rock Depth 7 ft		
Size and Type of Bit 2-inch direct push				Number of Samples 3		Disturbed NA		
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA		
Casing Hammer NA				Weight (lbs) NA		Drop (in) NA		
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson				
Sampler Hammer NA				Field Engineer M. Perley				
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BLU/in	
Concrete		R1a (0-5") Pulverized CONCRETE	0					
		R1b (5-19") Light brown fine SAND, trace fine gravel, trace clay (moist) [FILL]	1	R1	MC	19/36		0.0
			2					0.0
Sand		R2 (0-29") Tan fine SAND, some silt, trace clay (moist) [FILL]	3					
			4	R2	MC	29/36		0.0
			5					0.0
Sand		R3 (0-8") Tan gray fine SAND, some silt, trace clay (moist) [SAND]	6	R3	MC	8/12		0.0
			7					0.0
			8					0.0
			9					
			10					
			11					
			12					
			13					
			14					

11:00 Collect sample SB01_0.5-1.5

11:05 Collect sample SB01_6-7

Refusal at 7 feet.
End of boring at 7 feet.
Boring backfilled with clean drill cuttings and patched with concrete.

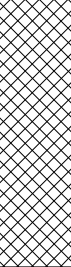
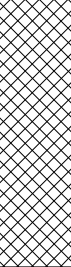
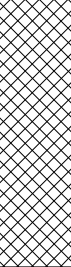
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Project 266-270 W 96th Street				Project No. 170432001			
Location Manhattan, NY				Elevation and Datum NA			
Drilling Company AARCO Environmental Services Corp.				Date Started 5/25/18		Date Finished 5/25/18	
Drilling Equipment Geoprobe 420M				Completion Depth 12 ft		Rock Depth 12 ft	
Size and Type of Bit 2-inch direct push				Number of Samples 4		Disturbed NA	
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA	
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Water Level (ft.) First ∇ NA	
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA		Field Engineer M. Perley	

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	PID Reading (ppm)	
		R1a (0-9") Pulverized CONCRETE	0				0.0	12:50 Collect sample SB02_0.5-1.5
		R1b (9-14") Brown to gray fine SAND, some fine gravel, trace silt, trace clay, glass (moist) [FILL]	1	R1	MC	23/36	0.0	
		R1c (14-23") Light brown fine gravelly fine SAND (moist) [FILL]	2				0.0	
			3				0.0	
		R2a (0-6") Reddish brown fine SAND, some clay, some silt (moist) [FILL]	4	R2	MC	19/36	0.1	12:55 Collect sample SB02_4.5-5.5 Petroleum-like odor and positive sheen test Petroleum-like odor
		R2b (6-11") Dark grey fine gravelly fine SAND (moist) [FILL]	5				4.3	
		R2c (11-15") Brown fine SAND, some fine gravel, brick (dry) [FILL]	6				0.3	
		R2d (15-19") Dark grey coarse SAND (dry) [FILL]	7				0.1	
		R3a (0-14") Brown fine gravelly fine SAND, glass (dry) [FILL]	8	R3	MC	30/36	0.1	13:10 Collect sample SB02_11-12
			9				0.0	
			10				0.0	
			11	R4	MC	21/36	0.0	
	R3b (14-30") Tan fine SAND, trace silt, trace clay (moist) [SAND]	12				0.0	Refusal at 12 feet. End of boring at 12 feet. Boring backfilled with clean drill cuttings and patched with concrete.	
	R4a (0-17") Reddish brown fine SAND, trace silt, trace clay (moist) [SAND]	13				0.0		
	R3b (17-20") Black over light grey fine gravel (dry)	14				0.0		

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Project 266-270 W 96th Street				Project No. 170432001					
Location Manhattan, NY				Elevation and Datum NA					
Drilling Company AARCO Environmental Services Corp.				Date Started 5/16/18		Date Finished 5/16/18			
Drilling Equipment Geoprobe 420M				Completion Depth 5.5 ft		Rock Depth 5.5 ft			
Size and Type of Bit 2-inch direct push				Number of Samples 2		Disturbed NA			
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA			
Casing Hammer NA				Weight (lbs) NA		Drop (in) NA			
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson					
Sampler Hammer NA				Field Engineer K. Twombly					
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. BLU/in		PID Reading (ppm)
X		R1 (0-18") Brown fine SAND, trace silt, trace fine gravel (moist) [FILL]	0	R1	MC	18/36		0.0	11:00 Collect sample SB03_0-2
	1	0.0							
2	0.0								
		R2 (0-18") Brown-grey fine SAND, some fine gravel, trace silt (moist) [FILL]	3	R2	MC	18/18		0.0	11:15 Collect sample SB03_5-5.5
4	0.0								
5	0.0								
			6					0.0	Refusal at 5.5 feet. End of boring at 5.5 feet. Boring backfilled with clean drill cuttings and patched with concrete.
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						

Project					Project No.																																															
266-270 W 96th Street					170432001																																															
Location					Elevation and Datum																																															
Manhattan, NY					NA																																															
Drilling Company					Date Started			Date Finished																																												
AARCO Environmental Services Corp.					5/16/18			5/16/18																																												
Drilling Equipment					Completion Depth			Rock Depth																																												
Geoprobe 420M					3 ft			3 ft																																												
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed	Core																																										
2-inch direct push					1		NA		NA	NA																																										
Casing Diameter (in)					Water Level (ft.)		First		Completion	24 HR.																																										
NA					NA		NA		NA	NA																																										
Casing Hammer					Drilling Foreman																																															
NA					Adam Hutchinson																																															
Sampler					Field Engineer																																															
3-foot Acetate Liner					K. Twombly																																															
Sampler Hammer					NA																																															
Weight (lbs)					NA																																															
Drop (in)					NA																																															
<table><thead><tr><th rowspan="2">MATERIAL SYMBOL</th><th rowspan="2">Elev. (ft)</th><th rowspan="2">Sample Description</th><th rowspan="2">Depth Scale</th><th colspan="6">Sample Data</th><th rowspan="2">Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</th></tr><tr><th>Number</th><th>Type</th><th>Recov. (in)</th><th>Penetr. resist</th><th>BLU6in</th><th>PID Reading (ppm)</th></tr></thead><tbody><tr><td rowspan="14"></td><td rowspan="14"></td><td rowspan="2">R1 (0-12") Brown fine SAND, some fine gravel, trace silt (moist) [FILL]</td><td>0</td><td rowspan="2">R1</td><td rowspan="2">MC</td><td rowspan="2">12/36</td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2">0.4</td><td rowspan="14">10:00 Collect sample SB04_0-2 Refusal at 3 feet. End of boring at 3 feet. Boring backfilled with clean drill cuttings and patched with concrete.</td></tr><tr><td>1</td></tr><tr><td>2</td></tr><tr><td>3</td></tr><tr><td>4</td></tr><tr><td>5</td></tr><tr><td>6</td></tr><tr><td>7</td></tr><tr><td>8</td></tr><tr><td>9</td></tr><tr><td>10</td></tr><tr><td>11</td></tr><tr><td>12</td></tr><tr><td>13</td></tr><tr><td>14</td></tr></tbody></table>											MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	Number	Type	Recov. (in)	Penetr. resist	BLU6in	PID Reading (ppm)			R1 (0-12") Brown fine SAND, some fine gravel, trace silt (moist) [FILL]	0	R1	MC	12/36			0.4	10:00 Collect sample SB04_0-2 Refusal at 3 feet. End of boring at 3 feet. Boring backfilled with clean drill cuttings and patched with concrete.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)																																										
				Number	Type	Recov. (in)	Penetr. resist	BLU6in	PID Reading (ppm)																																											
		R1 (0-12") Brown fine SAND, some fine gravel, trace silt (moist) [FILL]	0	R1	MC	12/36			0.4	10:00 Collect sample SB04_0-2 Refusal at 3 feet. End of boring at 3 feet. Boring backfilled with clean drill cuttings and patched with concrete.																																										
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Project 266-270 W 96th Street				Project No. 170432001					
Location Manhattan, NY				Elevation and Datum NA					
Drilling Company AARCO Environmental Services Corp.				Date Started 5/25/18		Date Finished 5/25/18			
Drilling Equipment Geoprobe 420M				Completion Depth 6 ft		Rock Depth 6 ft			
Size and Type of Bit 2-inch direct push				Number of Samples 3		Disturbed NA			
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA			
Casing Hammer NA				Weight (lbs) NA		Drop (in) NA			
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson					
Sampler Hammer NA				Field Engineer M. Perley					
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. BLU6in		PID Reading (ppm)
		R1a (0-4") Pulverized CONCRETE	0						
		R1b (4-31") Tan fine SAND, some silt, trace clay (moist) [FILL]	1	R1	MC	31/36		0.0	11:35 Collect sample SB05_0.5-1.5
			2				0.0		
			3				0.0		
			4				0.0		
		R2a (0-4") Tan fine SAND, some silt, trace clay (moist) [FILL] R2b (4-10") Tan fine SAND, some silt, trace clay (wet) [FILL]	4	R2	MC	28/36		0.0	11:30 Collect sample SB05_5-6
			5				0.0		
		R2c (10-17") Reddish brown fine SAND, trace silt, trace clay, trace fine gravel (moist) [SAND]	6				0.0		
		R2d (17-22") Black fine gravelly fine SAND (dry)	7				0.0		
		R2e (22-28") Reddish brown fine SAND, some fine gravel, trace silt, trace clay (moist) [SAND]	8					0.0	Refusal at 6 feet. End of boring at 6 feet. Boring backfilled with clean drill cuttings and patched with concrete.
			9						
			10						
			11						
			12						
			13						
			14						

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Project 266-270 W 96th Street				Project No. 170432001																																																																																																
Location Manhattan, NY				Elevation and Datum NA																																																																																																
Drilling Company AARCO Environmental Services Corp.				Date Started 5/15/18		Date Finished 5/15/18																																																																																														
Drilling Equipment Geoprobe 420M				Completion Depth 11 ft		Rock Depth 11 ft																																																																																														
Size and Type of Bit 2-inch direct push				Number of Samples 4		Disturbed NA																																																																																														
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA																																																																																														
Casing Hammer NA		Weight (lbs) NA		Drop (in) NA		Water Level (ft.) First ∇ NA																																																																																														
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson																																																																																																
Sampler Hammer NA				Field Engineer K. Twombly																																																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">MATERIAL SYMBOL</th> <th rowspan="2">Elev. (ft)</th> <th rowspan="2">Sample Description</th> <th rowspan="2">Depth Scale</th> <th colspan="5">Sample Data</th> <th rowspan="2">Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Recov. (in)</th> <th>Penetr. resist</th> <th>PID Reading (ppm)</th> </tr> </thead> <tbody> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td>R1 (0-9") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]</td> <td>0</td> <td rowspan="4">R1</td> <td rowspan="4">MC</td> <td rowspan="4">9/36</td> <td rowspan="4"></td> <td rowspan="4">0.0</td> <td rowspan="4">12:40 Collect sample SB06_0-2</td> </tr> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3</td></tr> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td>R2a (0-6") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]</td> <td>4</td> <td rowspan="4">R2</td> <td rowspan="4">MC</td> <td rowspan="4">18/36</td> <td rowspan="4"></td> <td rowspan="4">0.0</td> <td rowspan="4"></td> </tr> <tr><td>5</td></tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td>R2b (6-18") Brown fine SAND, trace fine gravel, trace silt (moist) [SAND]</td> <td>5</td> <td rowspan="4">R3</td> <td rowspan="4">MC</td> <td rowspan="4">31/36</td> <td rowspan="4"></td> <td rowspan="4">0.0</td> <td rowspan="4"></td> </tr> <tr><td>6</td></tr> <tr><td>7</td></tr> <tr><td>8</td></tr> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td>R3 (0-31") Brown fine SAND, trace silt (moist) [SAND]</td> <td>6</td> <td rowspan="4">R4</td> <td rowspan="4">MC</td> <td rowspan="4">24/24</td> <td rowspan="4"></td> <td rowspan="4">0.0</td> <td rowspan="4">12:50 Collect sample SB06_9-11</td> </tr> <tr><td>7</td></tr> <tr><td>8</td></tr> <tr><td>9</td></tr> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td>R4 (0-24") Brown fine SAND, trace silt (moist) [SAND]</td> <td>9</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">0.0</td> <td rowspan="4">Refusal at 11 feet. End of boring at 11 feet. Boring backfilled with clean drill cuttings and patched with concrete.</td> </tr> <tr><td>10</td></tr> <tr><td>11</td></tr> <tr><td>12</td></tr> <tr> <td rowspan="4" style="background-image: linear-gradient(to right, black 1px, transparent 1px); background-size: 10px 10px;"></td> <td></td> <td></td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td></td> </tr> <tr><td>12</td></tr> <tr><td>13</td></tr> <tr><td>14</td></tr> </tbody> </table>								MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	Number	Type	Recov. (in)	Penetr. resist	PID Reading (ppm)			R1 (0-9") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]	0	R1	MC	9/36		0.0	12:40 Collect sample SB06_0-2	1	2	3			R2a (0-6") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]	4	R2	MC	18/36		0.0		5	6	7			R2b (6-18") Brown fine SAND, trace fine gravel, trace silt (moist) [SAND]	5	R3	MC	31/36		0.0		6	7	8			R3 (0-31") Brown fine SAND, trace silt (moist) [SAND]	6	R4	MC	24/24		0.0	12:50 Collect sample SB06_9-11	7	8	9			R4 (0-24") Brown fine SAND, trace silt (moist) [SAND]	9					0.0	Refusal at 11 feet. End of boring at 11 feet. Boring backfilled with clean drill cuttings and patched with concrete.	10	11	12				11					0.0		12	13	14
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data								Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)																																																																																								
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		R1 (0-9") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]	0	R1	MC	9/36		0.0	12:40 Collect sample SB06_0-2																																																																																											
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		R2a (0-6") Brown medium SAND, trace fine sand, brick, concrete (moist) [FILL]	4	R2	MC	18/36		0.0																																																																																												
	5																																																																																																			
	6																																																																																																			
	7																																																																																																			
		R2b (6-18") Brown fine SAND, trace fine gravel, trace silt (moist) [SAND]	5	R3	MC	31/36		0.0																																																																																												
	6																																																																																																			
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		R4 (0-24") Brown fine SAND, trace silt (moist) [SAND]	9					0.0	Refusal at 11 feet. End of boring at 11 feet. Boring backfilled with clean drill cuttings and patched with concrete.																																																																																											
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Project 266-270 W 96th Street				Project No. 170432001					
Location Manhattan, NY				Elevation and Datum NA					
Drilling Company AARCO Environmental Services Corp.				Date Started 5/16/18		Date Finished 5/16/18			
Drilling Equipment Geoprobe 420M				Completion Depth 5 ft		Rock Depth 5 ft			
Size and Type of Bit 2-inch direct push				Number of Samples 2		Disturbed NA			
Casing Diameter (in) NA				Casing Depth (ft) NA		Core NA			
Casing Hammer NA				Weight (lbs) NA		Drop (in) NA			
Sampler 3-foot Acetate Liner				Drilling Foreman Adam Hutchinson					
Sampler Hammer NA				Field Engineer K. Twombly					
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. BLU/in		PID Reading (ppm)
X		R1 (0-18") Brown fine SAND, some fine gravel, trace silt (moist) [FILL]	0						10:25 Collect sample SB07_0-2 10:35 Collect sample DUP01_051618
			1	R1	MC	24/36		0.0	
			2					0.0	
			3					0.0	
		R2 (0-24") No recovery	4	R2	MC	0/28		0.0	
			5						Refusal at 5 feet. End of boring at 5 feet. Boring backfilled with clean drill cuttings and patched with concrete.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						

Project						Project No.							
266-270 W 96th Street						170432001							
Location						Elevation and Datum							
Manhattan, NY						NA							
Drilling Company						Date Started				Date Finished			
AARCO Environmental Services Corp.						5/16/18				5/16/18			
Drilling Equipment						Completion Depth				Rock Depth			
Geoprobe 420M						5 ft				5 ft			
Size and Type of Bit						Number of Samples		Disturbed		Undisturbed		Core	
2-inch direct push								2		NA		NA	
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First		Completion		24 HR.	
NA				NA		▽ NA		▽ NA		▽ NA		NA	
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman						
NA			NA		NA		Adam Hutchinson						
Sampler						Field Engineer							
3-foot Acetate Liner						K. Twombly							
Sampler Hammer			Weight (lbs)		Drop (in)								
NA			NA		NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)			
				Number	Type	Recov. (in)	Penetr. resist BLU/in	PID Reading (ppm)					
		R1 (0-18") Medium-dense brown fine SAND, some fine gravel, trace silt (moist) [FILL]	0	R1	MC	18/36			0.0 0.0 0.0	10:45 Collect sample SB08_0-2			
		1											
		2											
		3	R2	MC	0/28								
		4											
		5											
		6	Refusal at 5 feet. End of boring at 5 feet. Boring backfilled with clean drill cuttings and patched with concrete.										
		7											
		8											
		9											
		10											
		11											
		12											
		13											
14													

Attachment 3
Soil Vapor Sampling Logs

SOIL VAPOR SAMPLING LOG SHEET

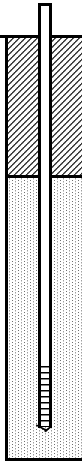
Sample Number: SV01_052518

PROJECT: 266-270 West 96th Street	PROJECT NO.: 170432001	
LOCATION: Manhattan, NY	SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp	INSTALLATION DATE STARTED: 5/25/2018	DATE FINISHED: 5/25/2018
INSTALLATION FOREMAN: Adam Hutchinson	SAMPLE DATE STARTED: 5/25/2018	DATE FINISHED: 5/25/2018
INSTALLATION EQUIPMENT: Hand Drill	TYPE OF SAMPLING DEVICE: 6-L Summa Canister	
INSPECTOR: M. Perley	SAMPLER: M. Perley	
POTENTIAL SAMPLE INTERFERENCES: Drilling in room	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors	

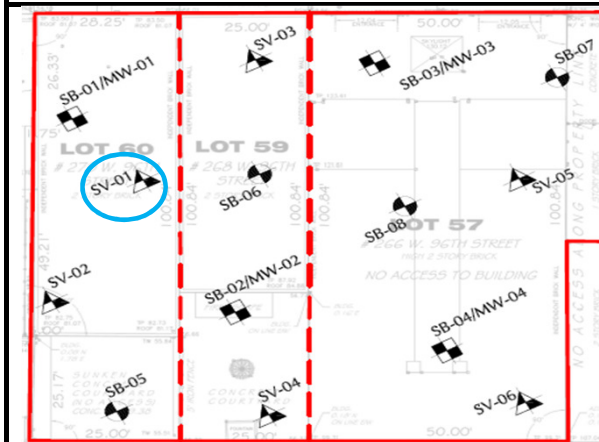
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L):		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (INCHES FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	0.80		SURFACE	SURFACE	
PID AFTER PURGE (PPM):	40				
HELIUM TEST IN BUCKET(%):	0 / 0				
HELIUM TEST IN TUBE (PPM):	12.9 / 12.5				
SAMPLE START DATE/TIME:	5/25/2018 10:24				
SAMPLE STOP DATE/TIME:	5/25/2018 12:24				
TOTAL SAMPLE TIME (MIN):	120 min				
FLOW RATE (L/MIN):	40				
VOLUME OF SAMPLE (LITERS):	6				
PID AFTER SAMPLE (PPM):	0				
SAMPLE MOISTURE CONTENT:	NA	Seal			
CAN SERIAL NUMBER:	1863				
REGULATOR SERIAL NUMBER:	275				
CAN START VACUUM PRESS. (" HG):	-30.05				
CAN STOP VACUUM PRESS. (" HG):	-6.13	Top of Pack			
		Probe			

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, 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: SV02_052518

PROJECT: 266-270 West 96th Street	PROJECT NO.: 170432001	
LOCATION: Manhattan, NY	SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp	INSTALLATION DATE STARTED: 5/25/2018	DATE FINISHED: 5/25/2018
INSTALLATION FOREMAN: Adam Hutchinson	SAMPLE DATE STARTED: 5/25/2018	DATE FINISHED: 5/25/2018
INSTALLATION EQUIPMENT: Hand Drill	TYPE OF SAMPLING DEVICE: 6-L Summa Canister	
INSPECTOR: M. Perley	SAMPLER: M. Perley	
POTENTIAL SAMPLE INTERFERENCES: Drilling in room	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoors	

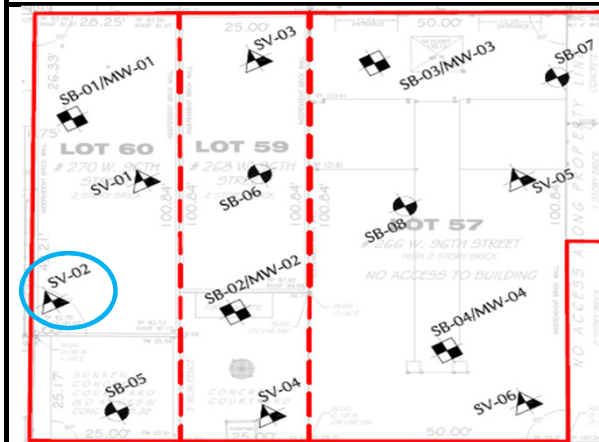
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L): 0.80 PURGE FLOW RATE (ML/MIN): 40 PID AFTER PURGE (PPM): 0 / 0 HELIUM TEST IN BUCKET(%): 11.5 / 11.2 HELIUM TEST IN TUBE (PPM): 0 / 0 SAMPLE START DATE/TIME: 5/25/2018 10:22 SAMPLE STOP DATE/TIME: 5/25/2018 12:22 TOTAL SAMPLE TIME (MIN): 120 min FLOW RATE (L/MIN): 40 VOLUME OF SAMPLE (LITERS): 6 PID AFTER SAMPLE (PPM): 0 SAMPLE MOISTURE CONTENT: NA CAN SERIAL NUMBER: 2441 REGULATOR SERIAL NUMBER: 159 CAN START VACUUM PRESS. (" HG): -29.65 CAN STOP VACUUM PRESS. (" HG): -5.85	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.) 	DEPTH (INCHES FROM SURFACE) 0 4 12	NOTES Bentonite Seal Filpro #1 Sand 2-inch polyethylene probe
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SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, 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: SV03_051618

PROJECT: 266-270 West 96th Street	PROJECT NO.: 170432001	
LOCATION: Manhattan, NY	SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp	INSTALLATION DATE STARTED: 5/15/2018	DATE FINISHED: 5/15/2018
INSTALLATION FOREMAN: Adam Hutchinson	SAMPLE DATE STARTED: 5/16/2018	DATE FINISHED: 5/16/2018
INSTALLATION EQUIPMENT: Hand Drill	TYPE OF SAMPLING DEVICE: 2.7-L Summa Canister	
INSPECTOR: K. Twombly	SAMPLER: K. Twombly	
POTENTIAL SAMPLE INTERFERENCES: None	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 60-70 degrees F Wind: 5-10 mph east winds Precipitation: Light rain Pressure: 30.09" Hg	

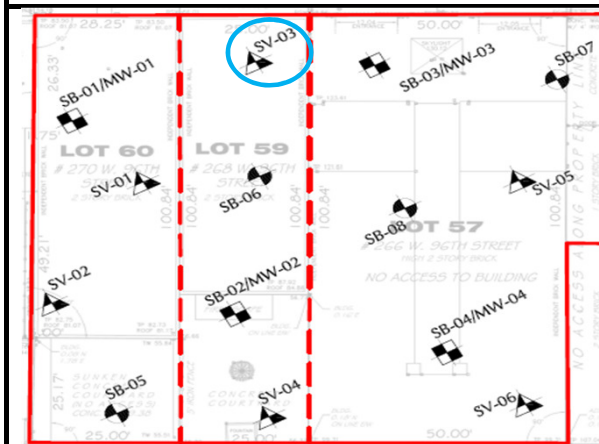
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L):	2.00	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (INCHES FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	0.15			
PID AFTER PURGE (PPM):	4.4	The diagram shows a vertical cross-section of the sampling probe. The top section is labeled 'Seal' and is shaded with diagonal lines. Below the seal is the 'Top of Pack' (filter pack) section, also shaded with diagonal lines. The bottom section is labeled 'Probe' and is unshaded. The probe is shown extending to a depth of 12 inches from the surface.	0	Bentonite Seal
HELIUM TEST IN BUCKET(%):	14.8/ 13.8			
HELIUM TEST IN TUBE (PPM):	0 / 0			
SAMPLE START DATE/TIME:	5/16/2018 12:00			
SAMPLE STOP DATE/TIME:	5/16/2018 14:00:00 PM			
TOTAL SAMPLE TIME (MIN):	120 min			
FLOW RATE (L/MIN):	18 mL/min			
VOLUME OF SAMPLE (LITERS):	2.7			
PID AFTER SAMPLE (PPM):	3.1			
SAMPLE MOISTURE CONTENT:	NA			
CAN SERIAL NUMBER:	501	4	Filpro #1 Sand	
REGULATOR SERIAL NUMBER:	973			
CAN START VACUUM PRESS. (" HG):	-30.97			
CAN STOP VACUUM PRESS. (" HG):	-5.79			
		12	2-inch polyethylene probe	

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, 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: SV04_051618

PROJECT: 266-270 West 96th Street	PROJECT NO.: 170432001	
LOCATION: Manhattan, NY	SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp	INSTALLATION DATE STARTED: 5/16/2018	DATE FINISHED: 5/16/2018
INSTALLATION FOREMAN: Adam Hutchinson	SAMPLE DATE STARTED: 5/16/2018	DATE FINISHED: 5/16/2018
INSTALLATION EQUIPMENT: Hand Drill	TYPE OF SAMPLING DEVICE: 2.7-L Summa Canister	
INSPECTOR: K. Twombly	SAMPLER: K. Twombly	
POTENTIAL SAMPLE INTERFERENCES: None	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 60-70 degrees F Wind: 5-10 mph east winds Precipitation: Light rain Pressure: 30.09" Hg	

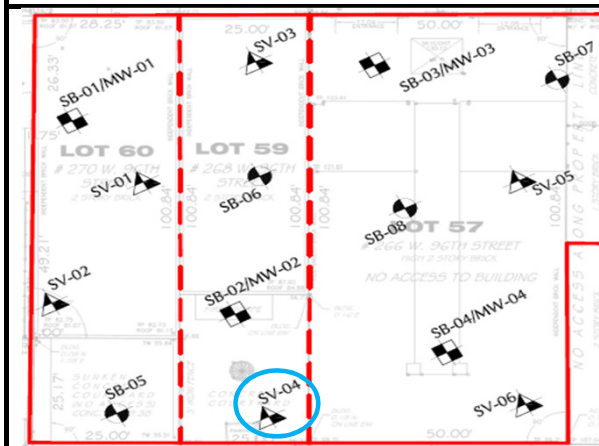
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L):	2.00	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (INCHES FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	0.15			
PID AFTER PURGE (PPM):	4	The diagram shows a vertical cross-section of the sampling probe. The top section is labeled 'Seal' and is shaded with diagonal lines. Below the seal is the 'Top of Pack' layer, also shaded. The main body of the probe is labeled 'Probe' and is unshaded. The probe is shown extending to a depth of 12 inches from the surface.	0	Bentonite Seal
HELIUM TEST IN BUCKET(%):	11.5 / 15.6			
HELIUM TEST IN TUBE (PPM):	0 / 0			
SAMPLE START DATE/TIME:	5/16/2018 12:00			
SAMPLE STOP DATE/TIME:	5/16/2018 14:00:00 PM			
TOTAL SAMPLE TIME (MIN):	120 min			
FLOW RATE (L/MIN):	18 mL/min			
VOLUME OF SAMPLE (LITERS):	2.7			
PID AFTER SAMPLE (PPM):	1.5			
SAMPLE MOISTURE CONTENT:	NA			
CAN SERIAL NUMBER:	325	Top of Pack 4 Filpro #1 Sand	12	2-inch polyethylene probe
REGULATOR SERIAL NUMBER:	116			
CAN START VACUUM PRESS. (" HG):	-30.69			
CAN STOP VACUUM PRESS. (" HG):	-5.98			

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, 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: SV05_051618

PROJECT: 266-270 West 96th Street	PROJECT NO.: 170432001	
LOCATION: Manhattan, NY	SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp	INSTALLATION DATE STARTED: 5/15/2018	DATE FINISHED: 5/15/2018
INSTALLATION FOREMAN: Adam Hutchinson	SAMPLE DATE STARTED: 5/16/2018	DATE FINISHED: 5/16/2018
INSTALLATION EQUIPMENT: Hand Drill	TYPE OF SAMPLING DEVICE: 2.7-L Summa Canister	
INSPECTOR: K. Twombly	SAMPLER: K. Twombly	
POTENTIAL SAMPLE INTERFERENCES: None	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 60-70 degrees F Wind: 5-10 mph east winds Precipitation: Light rain Pressure: 30.09" Hg	

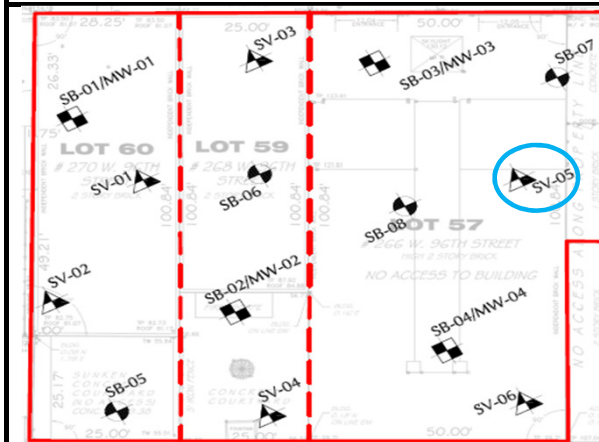
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L):		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (INCHES FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	2.00		SURFACE	SURFACE	
PID AFTER PURGE (PPM):	0.15				
HELIUM TEST IN BUCKET(%):	4.5				
HELIUM TEST IN TUBE (PPM):	12.5 / 14.6				
SAMPLE START DATE/TIME:	0 / 0				
SAMPLE STOP DATE/TIME:	5/16/2018 10:00				
TOTAL SAMPLE TIME (MIN):	5/16/2018 12:00				
FLOW RATE (L/MIN):	120 min				
VOLUME OF SAMPLE (LITERS):	18 mL/min				
PID AFTER SAMPLE (PPM):	2.7				
SAMPLE MOISTURE CONTENT:	3		SURFACE	SURFACE	Seal Top of Pack Filpro #1 Sand 2-inch polyethylene probe
CAN SERIAL NUMBER:	NA				
REGULATOR SERIAL NUMBER:	551				
CAN START VACUUM PRESS. (" HG):	138				
CAN STOP VACUUM PRESS. (" HG):	-30.11				
CAN STOP VACUUM PRESS. (" HG):	-2				

SAMPLE LOCATION SKETCH



NOTES

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

SOIL VAPOR SAMPLING LOG SHEET

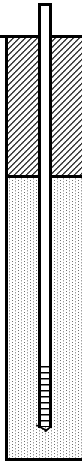
Sample Number: SV05_051618

PROJECT: 266-270 West 96th Street		PROJECT NO.: 170432001	
LOCATION: Manhattan, NY		SURFACE ELEVATION AND DATUM: NA	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services Corp		INSTALLATION DATE STARTED: 5/15/2018	DATE FINISHED: 5/15/2018
INSTALLATION FOREMAN: Adam Hutchinson		SAMPLE DATE STARTED: 5/16/2018	DATE FINISHED: 5/16/2018
INSTALLATION EQUIPMENT: Hand Drill		TYPE OF SAMPLING DEVICE: 2.7-L Summa Canister	
INSPECTOR: K. Twombly		SAMPLER: K. Twombly	
POTENTIAL SAMPLE INTERFERENCES: None		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 60-70 degrees F Wind: 5-10 mph east winds Precipitation: Light rain Pressure: 30.09" Hg	

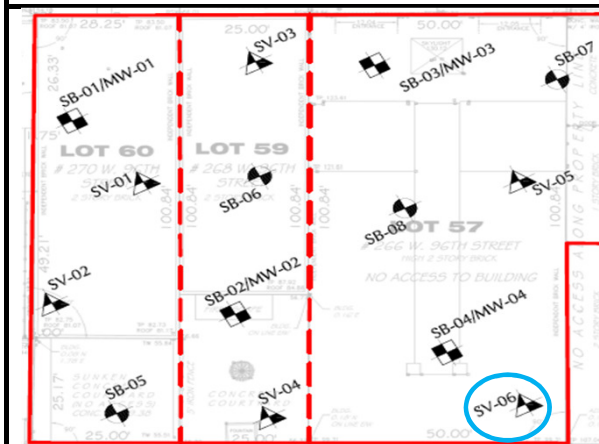
METHOD OF INSTALLATION AND PURGING:

Drilled to 1 foot below grade using 7/8-inch drill bit. Install 2-inch polyethylene probe, backfill with Filpro #1 Sand and seal with Cetco Powdered Bentonite Grout. Use helium shroud to perform seal test and purge for two minutes.

TUBING TYPE/DIAMETER: 1-4-inch by 3/16-inch (OD x ID) Teflon tubing	TYPE OF MATERIAL ABOVE SEAL: NA
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch polyethylene probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 7/8-inch	FILTER PACK MATERIAL (Sand or Glass Beads): # 1 Sand

PURGE VOLUME (L):		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (INCHES FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	2.00			0	Bentonite Seal
PID AFTER PURGE (PPM):	0.15				
HELIUM TEST IN BUCKET(%):	5.1				
HELIUM TEST IN TUBE (PPM):	16.8 / 15.0				
SAMPLE START DATE/TIME:	0 / 0				
SAMPLE STOP DATE/TIME:	5/16/2018 10:00				
TOTAL SAMPLE TIME (MIN):	5/16/2018 12:00				
FLOW RATE (L/MIN):	120 min				
VOLUME OF SAMPLE (LITERS):	18 mL/min				
PID AFTER SAMPLE (PPM):	2.7				
SAMPLE MOISTURE CONTENT:	2.5				
CAN SERIAL NUMBER:	NA				
REGULATOR SERIAL NUMBER:	2365				
CAN START VACUUM PRESS. (" HG):	1034				
CAN STOP VACUUM PRESS. (" HG):	-29.14				
	-3.88				
			12	2-inch polyethylene probe	

SAMPLE LOCATION SKETCH



NOTES

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

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

Attachment 4
Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L1817629
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	266-270 W. 96TH STREET
Project Number:	170432001
Report Date:	05/22/18

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

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

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



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1817629-01	SB-06_0-2	SOIL	MANHATTAN, NY	05/15/18 12:40	05/15/18
L1817629-02	SB-06_9-11	SOIL	MANHATTAN, NY	05/15/18 12:50	05/15/18
L1817629-03	TRIP BLANK	WATER	MANHATTAN, NY	05/15/18 13:00	05/15/18

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

Case Narrative (continued)

Report Submission

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

Total Metals

L1817629-01 and -02: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1117790-3 MS recoveries for aluminum (1920%), calcium (1290%), iron (2110%) and lead (446%), performed on L1817629-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1117790-3 MS recoveries, performed on L1817629-01, are outside the acceptance criteria for copper (134%), magnesium (218%), manganese (204%), potassium (211%) and zinc (194%). A post digestion spike was performed and was within acceptance criteria.

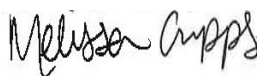
The WG1117790-4 Laboratory Duplicate RPDs for aluminum (58%), arsenic (47%), barium (54%), calcium (55%), chromium (54%), cobalt (38%), copper (31%), lead (64%), magnesium (59%), manganese (42%), nickel (39%), potassium (60%), vanadium (47%) and zinc (68%), performed on L1817629-01, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1116363-2/-3 LCS/LCSD recoveries (64%/60%), associated with L1817629-01 and -02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 05/22/18

ORGANICS

VOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/18/18 09:48
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	2.6	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.43	1
Chloroform	0.90	J	ug/kg	2.4	0.59	1
Carbon tetrachloride	ND		ug/kg	1.6	0.55	1
1,2-Dichloropropane	ND		ug/kg	5.6	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.50	1
Tetrachloroethene	1.4	J	ug/kg	1.6	0.48	1
Chlorobenzene	ND		ug/kg	1.6	0.55	1
Trichlorofluoromethane	ND		ug/kg	7.9	0.66	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.56	1
Bromodichloromethane	ND		ug/kg	1.6	0.49	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.37	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.33	1
1,1-Dichloropropene	ND		ug/kg	7.9	0.52	1
Bromoform	ND		ug/kg	6.3	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.47	1
Benzene	ND		ug/kg	1.6	0.31	1
Toluene	ND		ug/kg	2.4	0.31	1
Ethylbenzene	ND		ug/kg	1.6	0.27	1
Chloromethane	ND		ug/kg	7.9	0.69	1
Bromomethane	ND		ug/kg	3.2	0.54	1
Vinyl chloride	ND		ug/kg	3.2	0.50	1
Chloroethane	ND		ug/kg	3.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.59	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.38	1

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817629**Project Number:** 170432001**Report Date:** 05/22/18**SAMPLE RESULTS****Lab ID:** L1817629-01**Date Collected:** 05/15/18 12:40**Client ID:** SB-06_0-2**Date Received:** 05/15/18**Sample Location:** MANHATTAN, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.6	0.48	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.35	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.24	1
p/m-Xylene	ND		ug/kg	3.2	0.56	1
o-Xylene	ND		ug/kg	3.2	0.54	1
Xylenes, Total	ND		ug/kg	3.2	0.54	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.54	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.38	1
Dibromomethane	ND		ug/kg	16	0.38	1
Styrene	ND		ug/kg	3.2	0.64	1
Dichlorodifluoromethane	ND		ug/kg	16	0.79	1
Acetone	13	J	ug/kg	16	3.6	1
Carbon disulfide	ND		ug/kg	16	1.7	1
2-Butanone	ND		ug/kg	16	1.1	1
Vinyl acetate	ND		ug/kg	16	0.24	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.28	1
2-Hexanone	ND		ug/kg	16	1.0	1
Bromochloromethane	ND		ug/kg	7.9	0.57	1
2,2-Dichloropropane	ND		ug/kg	7.9	0.71	1
1,2-Dibromoethane	ND		ug/kg	6.3	0.32	1
1,3-Dichloropropane	ND		ug/kg	7.9	0.29	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.50	1
Bromobenzene	ND		ug/kg	7.9	0.35	1
n-Butylbenzene	ND		ug/kg	1.6	0.36	1
sec-Butylbenzene	ND		ug/kg	1.6	0.34	1
tert-Butylbenzene	ND		ug/kg	7.9	0.39	1
o-Chlorotoluene	ND		ug/kg	7.9	0.35	1
p-Chlorotoluene	ND		ug/kg	7.9	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	0.63	1
Hexachlorobutadiene	ND		ug/kg	7.9	0.55	1
Isopropylbenzene	ND		ug/kg	1.6	0.31	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.32	1
Naphthalene	ND		ug/kg	7.9	0.22	1
Acrylonitrile	ND		ug/kg	16	0.82	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.6	0.34	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	0.30	1
1,4-Dioxane	ND		ug/kg	63	23.	1
p-Diethylbenzene	ND		ug/kg	6.3	6.3	1
p-Ethyltoluene	ND		ug/kg	6.3	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.3	0.25	1
Ethyl ether	ND		ug/kg	7.9	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.9	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/18/18 10:14
Analyst: JC
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.9	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.9	0.45	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.9	0.60	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.9	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.69	1
Acetone	ND		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.95	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.9	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.9	0.62	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.9	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	6.9	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.9	0.34	1
o-Chlorotoluene	ND		ug/kg	6.9	0.30	1
p-Chlorotoluene	ND		ug/kg	6.9	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.9	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.9	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.9	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	0.26	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	5.5	1
p-Ethyltoluene	ND		ug/kg	5.5	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.21	1
Ethyl ether	ND		ug/kg	6.9	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-03
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 13:00
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/20/18 13:09
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-03
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 13:00
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-03
Client ID: TRIP BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 13:00
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/18/18 08:03
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1117295-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/18/18 08:03
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1117295-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/18/18 08:03
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1117295-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/20/18 12:44
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1117868-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/20/18 12:44
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1117868-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/20/18 12:44
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1117868-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1117295-3 WG1117295-4								
Methylene chloride	88		105		70-130	18		30
1,1-Dichloroethane	97		115		70-130	17		30
Chloroform	105		117		70-130	11		30
Carbon tetrachloride	131	Q	142	Q	70-130	8		30
1,2-Dichloropropane	105		107		70-130	2		30
Dibromochloromethane	104		106		70-130	2		30
1,1,2-Trichloroethane	97		97		70-130	0		30
Tetrachloroethene	101		95		70-130	6		30
Chlorobenzene	94		96		70-130	2		30
Trichlorofluoromethane	118		143	Q	70-139	19		30
1,2-Dichloroethane	120		131	Q	70-130	9		30
1,1,1-Trichloroethane	122		130		70-130	6		30
Bromodichloromethane	111		119		70-130	7		30
trans-1,3-Dichloropropene	103		101		70-130	2		30
cis-1,3-Dichloropropene	102		108		70-130	6		30
1,1-Dichloropropene	111		111		70-130	0		30
Bromoform	88		93		70-130	6		30
1,1,2,2-Tetrachloroethane	84		90		70-130	7		30
Benzene	102		102		70-130	0		30
Toluene	107		93		70-130	14		30
Ethylbenzene	93		96		70-130	3		30
Chloromethane	90		108		52-130	18		30
Bromomethane	95		122		57-147	25		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1117295-3 WG1117295-4								
Vinyl chloride	88		108		67-130	20		30
Chloroethane	91		112		50-151	21		30
1,1-Dichloroethene	94		109		65-135	15		30
trans-1,2-Dichloroethene	92		108		70-130	16		30
Trichloroethene	109		112		70-130	3		30
1,2-Dichlorobenzene	94		94		70-130	0		30
1,3-Dichlorobenzene	92		95		70-130	3		30
1,4-Dichlorobenzene	91		93		70-130	2		30
Methyl tert butyl ether	99		123		66-130	22		30
p/m-Xylene	93		94		70-130	1		30
o-Xylene	93		94		70-130	1		30
cis-1,2-Dichloroethene	104		110		70-130	6		30
Dibromomethane	110		117		70-130	6		30
Styrene	92		93		70-130	1		30
Dichlorodifluoromethane	97		117		30-146	19		30
Acetone	104		131		54-140	23		30
Carbon disulfide	84		102		59-130	19		30
2-Butanone	106		118		70-130	11		30
Vinyl acetate	89		111		70-130	22		30
4-Methyl-2-pentanone	97		95		70-130	2		30
1,2,3-Trichloropropane	91		94		68-130	3		30
2-Hexanone	86		88		70-130	2		30
Bromochloromethane	107		119		70-130	11		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1117295-3 WG1117295-4								
2,2-Dichloropropane	110		124		70-130	12		30
1,2-Dibromoethane	99		105		70-130	6		30
1,3-Dichloropropane	92		96		69-130	4		30
1,1,1,2-Tetrachloroethane	100		104		70-130	4		30
Bromobenzene	87		89		70-130	2		30
n-Butylbenzene	94		98		70-130	4		30
sec-Butylbenzene	92		94		70-130	2		30
tert-Butylbenzene	91		93		70-130	2		30
o-Chlorotoluene	90		90		70-130	0		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	82		92		68-130	11		30
Hexachlorobutadiene	86		90		67-130	5		30
Isopropylbenzene	89		89		70-130	0		30
p-Isopropyltoluene	93		97		70-130	4		30
Naphthalene	97		101		70-130	4		30
Acrylonitrile	107		133	Q	70-130	22		30
n-Propylbenzene	89		89		70-130	0		30
1,2,3-Trichlorobenzene	95		96		70-130	1		30
1,2,4-Trichlorobenzene	88		91		70-130	3		30
1,3,5-Trimethylbenzene	91		93		70-130	2		30
1,2,4-Trimethylbenzene	93		94		70-130	1		30
1,4-Dioxane	102		119		65-136	15		30
p-Diethylbenzene	90		93		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1117295-3 WG1117295-4								
p-Ethyltoluene	86		86		70-130	0		30
1,2,4,5-Tetramethylbenzene	90		93		70-130	3		30
Ethyl ether	92		114		67-130	21		30
trans-1,4-Dichloro-2-butene	110		116		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	115		125		70-130
Toluene-d8	109		95		70-130
4-Bromofluorobenzene	99		96		70-130
Dibromofluoromethane	107		109		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1117868-3 WG1117868-4								
Methylene chloride	89		90		70-130	1		20
1,1-Dichloroethane	90		91		70-130	1		20
Chloroform	93		94		70-130	1		20
Carbon tetrachloride	85		85		63-132	0		20
1,2-Dichloropropane	88		89		70-130	1		20
Dibromochloromethane	85		85		63-130	0		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	95		95		70-130	0		20
Chlorobenzene	90		92		75-130	2		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	91		91		67-130	0		20
Bromodichloromethane	88		88		67-130	0		20
trans-1,3-Dichloropropene	85		86		70-130	1		20
cis-1,3-Dichloropropene	81		82		70-130	1		20
1,1-Dichloropropene	94		94		70-130	0		20
Bromoform	78		80		54-136	3		20
1,1,2,2-Tetrachloroethane	100		100		67-130	0		20
Benzene	84		85		70-130	1		20
Toluene	89		90		70-130	1		20
Ethylbenzene	91		92		70-130	1		20
Chloromethane	76		78		64-130	3		20
Bromomethane	74		74		39-139	0		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1117868-3 WG1117868-4								
Vinyl chloride	85		86		55-140	1		20
Chloroethane	90		91		55-138	1		20
1,1-Dichloroethene	87		89		61-145	2		20
trans-1,2-Dichloroethene	86		87		70-130	1		20
Trichloroethene	87		88		70-130	1		20
1,2-Dichlorobenzene	92		91		70-130	1		20
1,3-Dichlorobenzene	89		89		70-130	0		20
1,4-Dichlorobenzene	90		91		70-130	1		20
Methyl tert butyl ether	87		88		63-130	1		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		90		70-130	0		20
cis-1,2-Dichloroethene	83		85		70-130	2		20
Dibromomethane	93		93		70-130	0		20
1,2,3-Trichloropropane	98		100		64-130	2		20
Acrylonitrile	100		100		70-130	0		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	76		75		36-147	1		20
Acetone	100		100		58-148	0		20
Carbon disulfide	78		78		51-130	0		20
2-Butanone	110		110		63-138	0		20
Vinyl acetate	99		100		70-130	1		20
4-Methyl-2-pentanone	87		93		59-130	7		20
2-Hexanone	91		94		57-130	3		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1117868-3 WG1117868-4								
Bromochloromethane	87		88		70-130	1		20
2,2-Dichloropropane	81		83		63-133	2		20
1,2-Dibromoethane	94		96		70-130	2		20
1,3-Dichloropropane	99		100		70-130	1		20
1,1,1,2-Tetrachloroethane	85		86		64-130	1		20
Bromobenzene	88		87		70-130	1		20
n-Butylbenzene	93		92		53-136	1		20
sec-Butylbenzene	88		88		70-130	0		20
tert-Butylbenzene	89		89		70-130	0		20
o-Chlorotoluene	90		96		70-130	6		20
p-Chlorotoluene	90		90		70-130	0		20
1,2-Dibromo-3-chloropropane	76		78		41-144	3		20
Hexachlorobutadiene	88		89		63-130	1		20
Isopropylbenzene	87		87		70-130	0		20
p-Isopropyltoluene	89		89		70-130	0		20
Naphthalene	89		94		70-130	5		20
n-Propylbenzene	92		92		69-130	0		20
1,2,3-Trichlorobenzene	95		100		70-130	5		20
1,2,4-Trichlorobenzene	91		93		70-130	2		20
1,3,5-Trimethylbenzene	87		87		64-130	0		20
1,2,4-Trimethylbenzene	86		86		70-130	0		20
1,4-Dioxane	240	Q	240	Q	56-162	0		20
p-Diethylbenzene	86		87		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1117868-3 WG1117868-4								
p-Ethyltoluene	88		87		70-130	1		20
1,2,4,5-Tetramethylbenzene	83		84		70-130	1		20
Ethyl ether	100		110		59-134	10		20
trans-1,4-Dichloro-2-butene	82		87		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	123		122		70-130
Toluene-d8	105		104		70-130
4-Bromofluorobenzene	103		102		70-130
Dibromofluoromethane	103		103		70-130

SEMIVOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 18:12
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 19:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	370		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	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	6400		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	88	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	100	J	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
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	3200		ug/kg	110	20.	1
Benzo(a)pyrene	2800		ug/kg	150	44.	1
Benzo(b)fluoranthene	3300		ug/kg	110	31.	1
Benzo(k)fluoranthene	1000		ug/kg	110	29.	1
Chrysene	3200		ug/kg	110	19.	1
Acenaphthylene	180		ug/kg	150	28.	1
Anthracene	880		ug/kg	110	36.	1
Benzo(ghi)perylene	1800		ug/kg	150	21.	1
Fluorene	250		ug/kg	180	18.	1
Phenanthrene	5500		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	390		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	150	25.	1
Pyrene	7900	E	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	83	J	ug/kg	180	17.	1
2-Methylnaphthalene	60	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	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	470	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
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	170	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	79		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01 D
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/21/18 20:25
Analyst: PS
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 19:15

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

Pyrene	7300		ug/kg	220	36.	2
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Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 11:46
Analyst: RC
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 19:15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	29.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Fluoranthene	ND		ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	ND		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	33.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
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	210	20.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	130	21.	1
Biphenyl	ND		ug/kg	480	49.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	41.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	88.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	ND		ug/kg	250	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	32.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	70.	1
2-Nitrophenol	ND		ug/kg	460	80.	1
4-Nitrophenol	ND		ug/kg	300	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
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	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	65.	1
Carbazole	ND		ug/kg	210	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	83		18-120

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 10:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 19:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1116508-1					
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	150	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	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 10:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 19:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1116508-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
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	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	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	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 10:29
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 19:15

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1116508-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
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	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	88		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1116508-2 WG1116508-3								
Acenaphthene	80		89		31-137	11		50
1,2,4-Trichlorobenzene	79		89		38-107	12		50
Hexachlorobenzene	77		88		40-140	13		50
Bis(2-chloroethyl)ether	79		86		40-140	8		50
2-Chloronaphthalene	84		93		40-140	10		50
1,2-Dichlorobenzene	76		84		40-140	10		50
1,3-Dichlorobenzene	76		82		40-140	8		50
1,4-Dichlorobenzene	76		83		28-104	9		50
3,3'-Dichlorobenzidine	60		71		40-140	17		50
2,4-Dinitrotoluene	101		117		40-132	15		50
2,6-Dinitrotoluene	99		116		40-140	16		50
Fluoranthene	85		90		40-140	6		50
4-Chlorophenyl phenyl ether	78		89		40-140	13		50
4-Bromophenyl phenyl ether	76		84		40-140	10		50
Bis(2-chloroisopropyl)ether	90		99		40-140	10		50
Bis(2-chloroethoxy)methane	79		89		40-117	12		50
Hexachlorobutadiene	77		86		40-140	11		50
Hexachlorocyclopentadiene	69		79		40-140	14		50
Hexachloroethane	77		82		40-140	6		50
Isophorone	82		91		40-140	10		50
Naphthalene	79		88		40-140	11		50
Nitrobenzene	85		95		40-140	11		50
NDPA/DPA	81		92		36-157	13		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1116508-2 WG1116508-3								
n-Nitrosodi-n-propylamine	80		88		32-121	10		50
Bis(2-ethylhexyl)phthalate	88		104		40-140	17		50
Butyl benzyl phthalate	91		98		40-140	7		50
Di-n-butylphthalate	81		94		40-140	15		50
Di-n-octylphthalate	83		100		40-140	19		50
Diethyl phthalate	83		92		40-140	10		50
Dimethyl phthalate	83		94		40-140	12		50
Benzo(a)anthracene	82		92		40-140	11		50
Benzo(a)pyrene	76		93		40-140	20		50
Benzo(b)fluoranthene	74		90		40-140	20		50
Benzo(k)fluoranthene	76		94		40-140	21		50
Chrysene	82		94		40-140	14		50
Acenaphthylene	87		97		40-140	11		50
Anthracene	83		94		40-140	12		50
Benzo(ghi)perylene	81		85		40-140	5		50
Fluorene	81		92		40-140	13		50
Phenanthrene	81		92		40-140	13		50
Dibenzo(a,h)anthracene	80		86		40-140	7		50
Indeno(1,2,3-cd)pyrene	80		85		40-140	6		50
Pyrene	87		94		35-142	8		50
Biphenyl	84		96		54-104	13		50
4-Chloroaniline	83		91		40-140	9		50
2-Nitroaniline	102		117		47-134	14		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1116508-2 WG1116508-3								
3-Nitroaniline	90		102		26-129	13		50
4-Nitroaniline	96		109		41-125	13		50
Dibenzofuran	80		90		40-140	12		50
2-Methylnaphthalene	81		90		40-140	11		50
1,2,4,5-Tetrachlorobenzene	82		90		40-117	9		50
Acetophenone	82		91		14-144	10		50
2,4,6-Trichlorophenol	86		96		30-130	11		50
p-Chloro-m-cresol	86		98		26-103	13		50
2-Chlorophenol	82		92		25-102	11		50
2,4-Dichlorophenol	85		98		30-130	14		50
2,4-Dimethylphenol	85		95		30-130	11		50
2-Nitrophenol	96		109		30-130	13		50
4-Nitrophenol	101		114		11-114	12		50
2,4-Dinitrophenol	65		76		4-130	16		50
4,6-Dinitro-o-cresol	99		111		10-130	11		50
Pentachlorophenol	75		85		17-109	13		50
Phenol	77		86		26-90	11		50
2-Methylphenol	84		94		30-130.	11		50
3-Methylphenol/4-Methylphenol	94		104		30-130	10		50
2,4,5-Trichlorophenol	86		99		30-130	14		50
Benzoic Acid	22		28		10-110	24		50
Benzyl Alcohol	82		91		40-140	10		50
Carbazole	83		94		54-128	12		50

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817629**Report Date:** 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1116508-2 WG1116508-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	81		88		25-120
Phenol-d6	83		93		10-120
Nitrobenzene-d5	87		96		23-120
2-Fluorobiphenyl	80		90		30-120
2,4,6-Tribromophenol	86		93		10-136
4-Terphenyl-d14	81		86		18-120

PCBS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 05:21
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 14:24
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.8	3.95	1	A
Aroclor 1221	ND		ug/kg	34.8	5.30	1	A
Aroclor 1232	ND		ug/kg	34.8	3.42	1	A
Aroclor 1242	ND		ug/kg	34.8	4.26	1	A
Aroclor 1248	ND		ug/kg	34.8	3.90	1	A
Aroclor 1254	ND		ug/kg	34.8	2.84	1	A
Aroclor 1260	ND		ug/kg	34.8	3.63	1	A
Aroclor 1262	ND		ug/kg	34.8	2.86	1	A
Aroclor 1268	ND		ug/kg	34.8	2.46	1	A
PCBs, Total	ND		ug/kg	34.8	2.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 05:34
Analyst: HT
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 14:24
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.6	4.72	1	A
Aroclor 1221	ND		ug/kg	41.6	6.33	1	A
Aroclor 1232	ND		ug/kg	41.6	4.09	1	A
Aroclor 1242	ND		ug/kg	41.6	5.09	1	A
Aroclor 1248	ND		ug/kg	41.6	4.67	1	A
Aroclor 1254	ND		ug/kg	41.6	3.39	1	A
Aroclor 1260	ND		ug/kg	41.6	4.34	1	A
Aroclor 1262	ND		ug/kg	41.6	3.42	1	A
Aroclor 1268	ND		ug/kg	41.6	2.94	1	A
PCBs, Total	ND		ug/kg	41.6	2.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	49		30-150	B

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 05/17/18 13:09
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 09:41
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/16/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1116298-1						
Aroclor 1016	ND		ug/kg	32.4	3.68	A
Aroclor 1221	ND		ug/kg	32.4	4.94	A
Aroclor 1232	ND		ug/kg	32.4	3.19	A
Aroclor 1242	ND		ug/kg	32.4	3.97	A
Aroclor 1248	ND		ug/kg	32.4	3.64	A
Aroclor 1254	ND		ug/kg	32.4	2.64	A
Aroclor 1260	ND		ug/kg	32.4	3.38	A
Aroclor 1262	ND		ug/kg	32.4	2.66	A
Aroclor 1268	ND		ug/kg	32.4	2.30	A
PCBs, Total	ND		ug/kg	32.4	2.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	115		30-150	B
Decachlorobiphenyl	94		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1116298-2 WG1116298-3									
Aroclor 1016	93		96		40-140	3		50	A
Aroclor 1260	86		88		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		110		30-150	A
Decachlorobiphenyl	85		85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	112		117		30-150	B
Decachlorobiphenyl	96		97		30-150	B

PESTICIDES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/17/18 15:13
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 18:15
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/18

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	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	5.32	P	ug/kg	0.725	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.761	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	0.620	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	2.73	PI	ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	ND		ug/kg	2.17	0.606	1	A
trans-Chlordane	ND		ug/kg	2.17	0.574	1	A
Chlordane	ND		ug/kg	14.1	5.76	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/17/18 15:26
Analyst: KEG
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 05/16/18 18:15
Cleanup Method: EPA 3620B
Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.98	0.389	1	A
Lindane	ND		ug/kg	0.827	0.370	1	A
Alpha-BHC	ND		ug/kg	0.827	0.235	1	A
Beta-BHC	ND		ug/kg	1.98	0.753	1	A
Heptachlor	ND		ug/kg	0.992	0.445	1	A
Aldrin	ND		ug/kg	1.98	0.699	1	A
Heptachlor epoxide	ND		ug/kg	3.72	1.12	1	A
Endrin	ND		ug/kg	0.827	0.339	1	A
Endrin aldehyde	ND		ug/kg	2.48	0.868	1	A
Endrin ketone	ND		ug/kg	1.98	0.511	1	A
Dieldrin	ND		ug/kg	1.24	0.620	1	A
4,4'-DDE	ND		ug/kg	1.98	0.459	1	A
4,4'-DDD	ND		ug/kg	1.98	0.708	1	A
4,4'-DDT	ND		ug/kg	3.72	1.60	1	A
Endosulfan I	ND		ug/kg	1.98	0.469	1	A
Endosulfan II	ND		ug/kg	1.98	0.663	1	A
Endosulfan sulfate	ND		ug/kg	0.827	0.394	1	A
Methoxychlor	ND		ug/kg	3.72	1.16	1	A
Toxaphene	ND		ug/kg	37.2	10.4	1	A
cis-Chlordane	ND		ug/kg	2.48	0.691	1	A
trans-Chlordane	ND		ug/kg	2.48	0.655	1	A
Chlordane	ND		ug/kg	16.1	6.58	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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Organochlorine Pesticides by GC - Westborough Lab							
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Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	92		30-150	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/17/18 17:58
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 18:15
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1116500-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/17/18 17:58
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 05/16/18 18:15
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/17/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1116500-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	92		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1116500-2 WG1116500-3									
Delta-BHC	95		98		30-150	3		30	A
Lindane	82		86		30-150	5		30	A
Alpha-BHC	88		92		30-150	4		30	A
Beta-BHC	79		82		30-150	4		30	A
Heptachlor	87		91		30-150	4		30	A
Aldrin	87		91		30-150	4		30	A
Heptachlor epoxide	86		90		30-150	5		30	A
Endrin	94		98		30-150	4		30	A
Endrin aldehyde	73		76		30-150	4		30	A
Endrin ketone	85		89		30-150	5		30	A
Dieldrin	94		99		30-150	5		30	A
4,4'-DDE	88		92		30-150	4		30	A
4,4'-DDD	87		94		30-150	8		30	A
4,4'-DDT	92		96		30-150	4		30	A
Endosulfan I	84		88		30-150	5		30	A
Endosulfan II	86		91		30-150	6		30	A
Endosulfan sulfate	88		90		30-150	2		30	A
Methoxychlor	81		87		30-150	7		30	A
cis-Chlordane	78		82		30-150	5		30	A
trans-Chlordane	73		80		30-150	9		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1116500-2 WG1116500-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		90		30-150	B
Decachlorobiphenyl	97		107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		85		30-150	A
Decachlorobiphenyl	86		94		30-150	A

METALS

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817629**Project Number:** 170432001**Report Date:** 05/22/18**SAMPLE RESULTS**

Lab ID: L1817629-01

Date Collected: 05/15/18 12:40

Client ID: SB-06_0-2

Date Received: 05/15/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3930		mg/kg	8.52	2.30	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Antimony, Total	0.520	J	mg/kg	4.26	0.324	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Arsenic, Total	3.10		mg/kg	0.852	0.177	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Barium, Total	55.5		mg/kg	0.852	0.148	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Beryllium, Total	0.111	J	mg/kg	0.426	0.028	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Cadmium, Total	0.366	J	mg/kg	0.852	0.084	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Calcium, Total	12400		mg/kg	8.52	2.98	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Chromium, Total	7.28		mg/kg	0.852	0.082	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Cobalt, Total	3.91		mg/kg	1.70	0.141	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Copper, Total	24.4		mg/kg	0.852	0.220	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Iron, Total	10600		mg/kg	4.26	0.769	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Lead, Total	266		mg/kg	4.26	0.228	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Magnesium, Total	1560		mg/kg	8.52	1.31	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Manganese, Total	123		mg/kg	0.852	0.135	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Mercury, Total	0.797		mg/kg	0.070	0.015	1	05/17/18 07:00	05/17/18 20:06	EPA 7471B	1,7471B	EA
Nickel, Total	7.53		mg/kg	2.13	0.206	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Potassium, Total	1080		mg/kg	213	12.3	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Selenium, Total	1.51	J	mg/kg	1.70	0.220	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	0.852	0.241	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Sodium, Total	106	J	mg/kg	170	2.68	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	1.70	0.268	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Vanadium, Total	10.7		mg/kg	0.852	0.173	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
Zinc, Total	82.4		mg/kg	4.26	0.250	2	05/21/18 07:20	05/21/18 18:01	EPA 3050B	1,6010C	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.3		mg/kg	0.89	0.89	1		05/21/18 18:01	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817629**Project Number:** 170432001**Report Date:** 05/22/18**SAMPLE RESULTS**

Lab ID: L1817629-02

Date Collected: 05/15/18 12:50

Client ID: SB-06_9-11

Date Received: 05/15/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9560		mg/kg	10.2	2.74	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Antimony, Total	ND		mg/kg	5.08	0.386	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Arsenic, Total	3.10		mg/kg	1.02	0.211	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Barium, Total	33.9		mg/kg	1.02	0.177	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Beryllium, Total	0.437	J	mg/kg	0.508	0.034	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Cadmium, Total	0.336	J	mg/kg	1.02	0.100	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Calcium, Total	698		mg/kg	10.2	3.56	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Chromium, Total	9.65		mg/kg	1.02	0.098	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Cobalt, Total	5.36		mg/kg	2.03	0.169	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Copper, Total	9.25		mg/kg	1.02	0.262	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Iron, Total	13000		mg/kg	5.08	0.918	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Lead, Total	8.27		mg/kg	5.08	0.272	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Magnesium, Total	1980		mg/kg	10.2	1.56	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Manganese, Total	113		mg/kg	1.02	0.162	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Mercury, Total	0.043	J	mg/kg	0.082	0.017	1	05/17/18 07:00	05/17/18 20:08	EPA 7471B	1,7471B	EA
Nickel, Total	11.5		mg/kg	2.54	0.246	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Potassium, Total	378		mg/kg	254	14.6	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Selenium, Total	0.813	J	mg/kg	2.03	0.262	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Silver, Total	ND		mg/kg	1.02	0.288	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Sodium, Total	51.7	J	mg/kg	203	3.20	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Thallium, Total	ND		mg/kg	2.03	0.320	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Vanadium, Total	13.0		mg/kg	1.02	0.206	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC
Zinc, Total	31.5		mg/kg	5.08	0.298	2	05/21/18 07:20	05/21/18 18:19	EPA 3050B	1,6010C	MC

General Chemistry - Mansfield Lab

Chromium, Trivalent	9.6		mg/kg	1.0	1.0	1	05/21/18 18:19	NA	107,-		
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Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1116592-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/17/18 07:00	05/17/18 19:17	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG1117790-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Iron, Total	ND		mg/kg	2.00	0.361	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Potassium, Total	ND		mg/kg	100	5.76	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Selenium, Total	0.164	J	mg/kg	0.800	0.103	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/21/18 07:20	05/21/18 17:52	1,6010C	MC

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1116592-2 SRM Lot Number: D098-540								
Mercury, Total	115		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1117790-2 SRM Lot Number: D098-540					
Aluminum, Total	58	-	47-153	-	
Antimony, Total	135	-	6-194	-	
Arsenic, Total	88	-	83-117	-	
Barium, Total	83	-	82-118	-	
Beryllium, Total	84	-	83-117	-	
Cadmium, Total	90	-	82-117	-	
Calcium, Total	91	-	81-118	-	
Chromium, Total	83	-	83-119	-	
Cobalt, Total	88	-	84-116	-	
Copper, Total	87	-	84-116	-	
Iron, Total	72	-	60-140	-	
Lead, Total	82	-	82-117	-	
Magnesium, Total	79	-	76-124	-	
Manganese, Total	84	-	82-118	-	
Nickel, Total	87	-	82-117	-	
Potassium, Total	70	-	69-131	-	
Selenium, Total	94	-	78-121	-	
Silver, Total	80	-	80-120	-	
Sodium, Total	78	-	74-126	-	
Thallium, Total	92	-	80-119	-	
Vanadium, Total	84	-	79-121	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG1117790-2 SRM Lot Number: D098-540					
Zinc, Total	85	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1116592-3 QC Sample: L1817576-01 Client ID: MS Sample												
Mercury, Total	0.209	0.168	0.391	108		-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1117790-3 QC Sample: L1817629-01 Client ID: SB-06_0-2									
Aluminum, Total	3930	170	7200	1920	Q	-	75-125	-	20
Antimony, Total	0.520J	42.6	38.0	89		-	75-125	-	20
Arsenic, Total	3.10	10.2	14.2	108		-	75-125	-	20
Barium, Total	55.5	170	240	108		-	75-125	-	20
Beryllium, Total	0.111J	4.26	3.92	92		-	75-125	-	20
Cadmium, Total	0.366J	4.35	4.41	101		-	75-125	-	20
Calcium, Total	12400	853	23400	1290	Q	-	75-125	-	20
Chromium, Total	7.28	17	27.2	117		-	75-125	-	20
Cobalt, Total	3.91	42.6	40.9	87		-	75-125	-	20
Copper, Total	24.4	21.3	53.0	134	Q	-	75-125	-	20
Iron, Total	10600	85.3	12400	2110	Q	-	75-125	-	20
Lead, Total	266.	43.5	460	446	Q	-	75-125	-	20
Magnesium, Total	1560	853	3420	218	Q	-	75-125	-	20
Manganese, Total	123.	42.6	210	204	Q	-	75-125	-	20
Nickel, Total	7.53	42.6	46.3	91		-	75-125	-	20
Potassium, Total	1080	853	2880	211	Q	-	75-125	-	20
Selenium, Total	1.51J	10.2	10.5	103		-	75-125	-	20
Silver, Total	ND	25.6	23.9	93		-	75-125	-	20
Sodium, Total	106.J	853	973	114		-	75-125	-	20
Thallium, Total	ND	10.2	8.34	82		-	75-125	-	20
Vanadium, Total	10.7	42.6	56.5	107		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817629

Project Number: 170432001

Report Date: 05/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1117790-3 QC Sample: L1817629-01 Client ID: SB-06_0-2									
Zinc, Total	82.4	42.6	165	194	Q	-	-	75-125	- 20

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1817629

Report Date: 05/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1116592-4 QC Sample: L1817576-01 Client ID: DUP Sample						
Mercury, Total	0.209	0.178	mg/kg	16		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817629

Report Date: 05/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1117790-4 QC Sample: L1817629-01 Client ID: SB-06_0-2					
Aluminum, Total	3930	7150	mg/kg	58	Q 20
Antimony, Total	0.520J	0.845J	mg/kg	NC	20
Arsenic, Total	3.10	4.98	mg/kg	47	Q 20
Barium, Total	55.5	96.5	mg/kg	54	Q 20
Beryllium, Total	0.111J	0.196J	mg/kg	NC	20
Cadmium, Total	0.366J	0.461J	mg/kg	NC	20
Calcium, Total	12400	21800	mg/kg	55	Q 20
Chromium, Total	7.28	12.6	mg/kg	54	Q 20
Cobalt, Total	3.91	5.76	mg/kg	38	Q 20
Copper, Total	24.4	33.5	mg/kg	31	Q 20
Iron, Total	10600	12400	mg/kg	16	20
Lead, Total	266.	517	mg/kg	64	Q 20
Magnesium, Total	1560	2880	mg/kg	59	Q 20
Manganese, Total	123.	189	mg/kg	42	Q 20
Nickel, Total	7.53	11.2	mg/kg	39	Q 20
Potassium, Total	1080	2010	mg/kg	60	Q 20
Selenium, Total	1.51J	1.14J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	106.J	155J	mg/kg	NC	20

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1817629

Report Date: 05/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1117790-4 QC Sample: L1817629-01 Client ID: SB-06_0-2					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	10.7	17.3	mg/kg	47	Q 20
Zinc, Total	82.4	167	mg/kg	68	Q 20

INORGANICS & MISCELLANEOUS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-01
Client ID: SB-06_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:40
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	05/17/18 12:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/16/18 15:50	05/17/18 11:28	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.889	0.178	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

SAMPLE RESULTS

Lab ID: L1817629-02
Client ID: SB-06_9-11
Sample Location: MANHATTAN, NY

Date Collected: 05/15/18 12:50
Date Received: 05/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	05/17/18 12:38	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	05/16/18 15:50	05/17/18 11:33	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1116363-1										
Cyanide, Total	ND		mg/kg	0.84	0.18	1	05/16/18 15:50	05/17/18 11:04	1,9010C/9012B	LH

General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1116653-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817629**Report Date:** 05/22/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1116363-2 WG1116363-3								
Cyanide, Total	64	Q	60	Q	80-120	11		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1116653-2								
Chromium, Hexavalent	87		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1116363-4 WG1116363-5 QC Sample: L1817629-01 Client ID: SB-06_0-2												
Cyanide, Total	ND	10	8.4	81		8.7	80		75-125	4		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1116653-4 QC Sample: L1817937-04 Client ID: MS Sample												
Chromium, Hexavalent	ND	1070	1110	103		-	-		75-125	-		20

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1817629
Report Date: 05/22/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1116653-6 QC Sample: L1817937-04 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1116836-1 QC Sample: L1817648-02 Client ID: DUP Sample						
Solids, Total	75.3	68.8	%	9		20

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Serial_No:05221814:47
Lab Number: L1817629
Report Date: 05/22/18

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(*)
L1817629-01A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-01B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-01C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-01D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1817629-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817629-01F	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1817629-01G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)
L1817629-01X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-01Y	Vial Water preserved split	A	NA		2.8	Y	Absent	16-MAY-18 10:20	NYTCL-8260HLW(14)
L1817629-01Z	Vial Water preserved split	A	NA		2.8	Y	Absent	16-MAY-18 10:20	NYTCL-8260HLW(14)
L1817629-02A	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-02B	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-02C	5 gram Encore Sampler	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-02D	Plastic 2oz unpreserved for TS	A	NA		2.8	Y	Absent		TS(7)
L1817629-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.8	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817629-02F	Glass 120ml/4oz unpreserved	A	NA		2.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1817629-02G	Glass 250ml/8oz unpreserved	A	NA		2.8	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),NYTCL-8082(14)

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Serial_No:05221814:47
Lab Number: L1817629
Report Date: 05/22/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817629-02X	Vial MeOH preserved split	A	NA		2.8	Y	Absent		NYTCL-8260HLW(14)
L1817629-02Y	Vial Water preserved split	A	NA		2.8	Y	Absent	16-MAY-18 10:20	NYTCL-8260HLW(14)
L1817629-02Z	Vial Water preserved split	A	NA		2.8	Y	Absent	16-MAY-18 10:20	NYTCL-8260HLW(14)
L1817629-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)
L1817629-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260(14)

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
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GLOSSARY

Acronyms

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).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

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Data Qualifiers

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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817629
Report Date: 05/22/18

REFERENCES

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

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: m/p-xylene, o-xylene

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

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

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

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of

2181762A



ANALYTICAL REPORT

Lab Number:	L1817911
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	266-270 W. 96TH STREET
Project Number:	170432001
Report Date:	05/24/18

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1817911-01	SV03_051618	SOIL_VAPOR	MANHATTAN, NY	05/16/18 14:00	05/16/18
L1817911-02	SV04_051618	SOIL_VAPOR	MANHATTAN, NY	05/16/18 15:15	05/16/18
L1817911-03	SV05_051618	SOIL_VAPOR	MANHATTAN, NY	05/16/18 12:00	05/16/18
L1817911-04	SV06_051618	SOIL_VAPOR	MANHATTAN, NY	05/16/18 12:00	05/16/18
L1817911-05	AA01_051618	AIR	MANHATTAN, NY	05/16/18 15:15	05/16/18
L1817911-06	UNUSED CAN #183	SOIL_VAPOR	MANHATTAN, NY		05/16/18
L1817911-07	UNUSED CAN #421	SOIL_VAPOR	MANHATTAN, NY		05/16/18

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 16, 2018. The canister certification results are provided as an addendum.

L1817911-01, -03 and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1817911-03 results for Acetone should be considered estimated due to co-elution with a non-target peak.

The WG1118832-3 LCS recovery for benzyl chloride (137%) is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

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: 05/24/18

AIR

Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817911**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-01 D
 Client ID: SV03_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 14:00
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/24/18 01:46
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.726	0.400	--	3.59	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	ND	2.00	--	ND	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	ND	0.400	--	ND	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	1.23	1.00	--	3.63	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-01 D

Date Collected: 05/16/18 14:00

Client ID: SV03_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	30.4	0.400	--	148	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	ND	0.400	--	ND	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	ND	0.400	--	ND	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	1.82	0.400	--	9.78	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	0.668	0.400	--	2.74	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	4.63	0.400	--	17.4	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	83.9	0.400	--	569	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	1.41	0.400	--	6.12	1.74	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-01 D

Date Collected: 05/16/18 14:00

Client ID: SV03_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.30	0.800	--	27.4	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	2.62	0.400	--	11.4	1.74	--		2
4-Ethyltoluene	0.720	0.400	--	3.54	1.97	--		2
1,3,5-Trimethylbenzene	0.678	0.400	--	3.33	1.97	--		2
1,2,4-Trimethylbenzene	2.41	0.400	--	11.8	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	106		60-140



Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817911**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-02
 Client ID: SV04_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/24/18 02:25
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.445	0.200	--	2.20	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	11.1	1.00	--	26.4	2.38	--		1
Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.582	0.500	--	1.76	1.52	--		1
Methylene chloride	1.35	0.500	--	4.69	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.16	0.200	--	3.61	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	6.08	0.500	--	17.9	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-02
 Client ID: SV04_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.62	0.200	--	7.91	0.977	--		1
Tetrahydrofuran	3.33	0.500	--	9.82	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.395	0.200	--	1.39	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.549	0.200	--	1.75	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.203	0.200	--	0.699	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	0.396	0.200	--	1.85	0.934	--		1
Heptane	0.656	0.200	--	2.69	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	4.67	0.200	--	17.6	0.754	--		1
2-Hexanone	0.243	0.200	--	0.996	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	2.62	0.200	--	17.8	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.53	0.200	--	6.65	0.869	--		1



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-02
 Client ID: SV04_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	5.82	0.400	--	25.3	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.906	0.200	--	3.86	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.35	0.200	--	10.2	0.869	--		1
4-Ethyltoluene	0.668	0.200	--	3.28	0.983	--		1
1,3,5-Trimethylbenzene	0.707	0.200	--	3.48	0.983	--		1
1,2,4-Trimethylbenzene	2.25	0.200	--	11.1	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	95		60-140
chlorobenzene-d5	108		60-140



Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817911**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-03 D

Client ID: SV05_051618

Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 12:00

Date Received: 05/16/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 05/24/18 03:02

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.716	0.400	--	3.54	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	11.2	2.00	--	26.6	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	2.75	1.00	--	6.76	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	2.92	0.400	--	9.09	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	2.17	1.00	--	6.40	2.95	--		2
cis-1,2-Dichloroethene	1.66	0.400	--	6.58	1.59	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-03 D

Date Collected: 05/16/18 12:00

Client ID: SV05_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	9.62	0.400	--	47.0	1.95	--		2
Tetrahydrofuran	1.21	1.00	--	3.57	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	0.922	0.400	--	3.25	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	43.3	0.400	--	138	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	0.572	0.400	--	1.97	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	0.778	0.400	--	3.63	1.87	--		2
Heptane	0.990	0.400	--	4.06	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	1.52	1.00	--	6.23	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	88.0	0.400	--	332	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	14.3	0.400	--	97.0	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	31.6	0.400	--	137	1.74	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-03 D

Date Collected: 05/16/18 12:00

Client ID: SV05_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	16.1	0.800	--	69.9	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	6.87	0.400	--	29.8	1.74	--		2
4-Ethyltoluene	0.406	0.400	--	2.00	1.97	--		2
1,3,5-Trimethylbenzene	ND	0.400	--	ND	1.97	--		2
1,2,4-Trimethylbenzene	1.21	0.400	--	5.95	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	100		60-140
chlorobenzene-d5	114		60-140



Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817911**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-04 D
 Client ID: SV06_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 12:00
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 05/24/18 03:38
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.892	0.400	--	4.41	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	0.614	0.400	--	1.36	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	75.1	2.00	--	178	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	8.07	1.00	--	19.8	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	6.18	0.400	--	19.2	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	13.3	1.00	--	39.2	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-04 D

Date Collected: 05/16/18 12:00

Client ID: SV06_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	2.59	0.400	--	12.6	1.95	--		2
Tetrahydrofuran	3.23	1.00	--	9.53	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	1.18	0.400	--	4.16	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	30.0	0.400	--	95.8	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	0.520	0.400	--	1.79	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	0.558	0.400	--	3.00	2.15	--		2
2,2,4-Trimethylpentane	0.584	0.400	--	2.73	1.87	--		2
Heptane	1.26	0.400	--	5.16	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	3.60	1.00	--	14.8	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	111	0.400	--	418	1.51	--		2
2-Hexanone	0.512	0.400	--	2.10	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	18.4	0.400	--	125	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	57.4	0.400	--	249	1.74	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-04 D

Date Collected: 05/16/18 12:00

Client ID: SV06_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	28.1	0.800	--	122	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	0.628	0.400	--	2.67	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	11.5	0.400	--	50.0	1.74	--		2
4-Ethyltoluene	0.668	0.400	--	3.28	1.97	--		2
1,3,5-Trimethylbenzene	0.522	0.400	--	2.57	1.97	--		2
1,2,4-Trimethylbenzene	1.78	0.400	--	8.75	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	110		60-140



Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817911**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-05
 Client ID: AA01_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/23/18 18:49
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.431	0.200	--	2.13	0.989	--		1
Chloromethane	0.534	0.200	--	1.10	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	7.71	5.00	--	14.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.79	1.00	--	9.00	2.38	--		1
Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--		1
Isopropanol	1.12	0.500	--	2.75	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	1.01	0.500	--	3.51	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



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-05
 Client ID: AA01_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	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	0.519	0.200	--	1.96	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	0.208	0.200	--	0.903	0.869	--		1



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**SAMPLE RESULTS**

Lab ID: L1817911-05
 Client ID: AA01_051618
 Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:15
 Date Received: 05/16/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	0.826	0.400	--	3.59	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	0.259	0.200	--	1.12	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	96		60-140



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
Propylene	ND	0.500	--	ND	0.861	--		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
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
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	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



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15**Analytical Date:** 05/23/18 16:46

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1118832-4								
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
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: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
Chlorodifluoromethane	91		-		70-130	-		
Propylene	126		-		70-130	-		
Propane	86		-		70-130	-		
Dichlorodifluoromethane	100		-		70-130	-		
Chloromethane	100		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	89		-		70-130	-		
Vinyl chloride	99		-		70-130	-		
1,3-Butadiene	103		-		70-130	-		
Butane	100		-		70-130	-		
Bromomethane	99		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	96		-		70-130	-		
Dichlorofluoromethane	94		-		70-130	-		
Vinyl bromide	104		-		70-130	-		
Acrolein	90		-		70-130	-		
Acetone	87		-		70-130	-		
Acetonitrile	96		-		70-130	-		
Trichlorofluoromethane	97		-		70-130	-		
iso-Propyl Alcohol	88		-		70-130	-		
Acrylonitrile	92		-		70-130	-		
Pentane	96		-		70-130	-		
Ethyl ether	97		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
1,1-Dichloroethene	97		-		70-130	-		
tert-Butyl Alcohol	90		-		70-130	-		
Methylene chloride	99		-		70-130	-		
3-Chloropropene	113		-		70-130	-		
Carbon disulfide	100		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	97		-		70-130	-		
1,1-Dichloroethane	94		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
Vinyl acetate	97		-		70-130	-		
2-Butanone	104		-		70-130	-		
cis-1,2-Dichloroethene	96		-		70-130	-		
Ethyl Acetate	112		-		70-130	-		
Chloroform	100		-		70-130	-		
Tetrahydrofuran	112		-		70-130	-		
2,2-Dichloropropane	90		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	101		-		70-130	-		
Isopropyl Ether	95		-		70-130	-		
Ethyl-Tert-Butyl-Ether	92		-		70-130	-		
1,1,1-Trichloroethane	94		-		70-130	-		
1,1-Dichloropropene	93		-		70-130	-		
Benzene	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
Carbon tetrachloride	95		-		70-130	-		
Cyclohexane	101		-		70-130	-		
Tertiary-Amyl Methyl Ether	89		-		70-130	-		
Dibromomethane	89		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	96		-		70-130	-		
2,2,4-Trimethylpentane	103		-		70-130	-		
Methyl Methacrylate	85		-		70-130	-		
Heptane	104		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	105		-		70-130	-		
trans-1,3-Dichloropropene	88		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Toluene	110		-		70-130	-		
1,3-Dichloropropane	97		-		70-130	-		
2-Hexanone	118		-		70-130	-		
Dibromochloromethane	118		-		70-130	-		
1,2-Dibromoethane	108		-		70-130	-		
Butyl Acetate	109		-		70-130	-		
Octane	104		-		70-130	-		
Tetrachloroethene	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
1,1,1,2-Tetrachloroethane	104		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	116		-		70-130	-		
p/m-Xylene	113		-		70-130	-		
Bromoform	121		-		70-130	-		
Styrene	114		-		70-130	-		
1,1,2,2-Tetrachloroethane	114		-		70-130	-		
o-Xylene	116		-		70-130	-		
1,2,3-Trichloropropane	100		-		70-130	-		
Nonane (C9)	106		-		70-130	-		
Isopropylbenzene	111		-		70-130	-		
Bromobenzene	103		-		70-130	-		
o-Chlorotoluene	105		-		70-130	-		
n-Propylbenzene	109		-		70-130	-		
p-Chlorotoluene	105		-		70-130	-		
4-Ethyltoluene	122		-		70-130	-		
1,3,5-Trimethylbenzene	122		-		70-130	-		
tert-Butylbenzene	115		-		70-130	-		
1,2,4-Trimethylbenzene	124		-		70-130	-		
Decane (C10)	113		-		70-130	-		
Benzyl chloride	137	Q	-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	118		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1118832-3								
sec-Butylbenzene	112		-		70-130	-		
p-Isopropyltoluene	110		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
n-Butylbenzene	120		-		70-130	-		
1,2-Dibromo-3-chloropropane	111		-		70-130	-		
Undecane	116		-		70-130	-		
Dodecane (C12)	119		-		70-130	-		
1,2,4-Trichlorobenzene	120		-		70-130	-		
Naphthalene	115		-		70-130	-		
1,2,3-Trichlorobenzene	114		-		70-130	-		
Hexachlorobutadiene	118		-		70-130	-		

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: DUP Sample						
Dichlorodifluoromethane	0.411	0.412	ppbV	0		25
Chloromethane	0.571	0.557	ppbV	2		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	195	195	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	22.4	22.0	ppbV	2		25
Trichlorofluoromethane	0.200	0.210	ppbV	5		25
iso-Propyl Alcohol	10.3	10.4	ppbV	1		25
tert-Butyl Alcohol	1.08	1.06	ppbV	2		25
Methylene chloride	1.57	1.58	ppbV	1		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
2-Butanone	1.67	1.40	ppbV	18		25
Ethyl Acetate	1.13	1.10	ppbV	3		25

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1817911

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: DUP Sample						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.752	0.738	ppbV	2		25
Benzene	0.344	0.344	ppbV	0		25
Cyclohexane	0.512	0.503	ppbV	2		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.286	0.279	ppbV	2		25
Heptane	0.739	0.733	ppbV	1		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	1.02	1.04	ppbV	2		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	3.10	3.15	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.565	0.569	ppbV	1		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817911

Report Date: 05/24/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1118832-5 QC Sample: L1817756-03 Client ID: DUP Sample						
p/m-Xylene	1.76	1.79	ppbV	2		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	0.577	0.591	ppbV	2		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.360	0.375	ppbV	4		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: 266-270 W. 96TH STREET

Serial_No:05241814:11
Lab Number: L1817911

Project Number: 170432001

Report Date: 05/24/18

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1817911-01	SV03_051618	0973	Flow 5	05/16/18	265777		-	-	-	Pass	18.0	17.7	2
L1817911-01	SV03_051618	501	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-4.6	-	-	-	-
L1817911-02	SV04_051618	0116	Flow 2	05/16/18	265777		-	-	-	Pass	18.0	18.1	1
L1817911-02	SV04_051618	325	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-4.7	-	-	-	-
L1817911-03	SV05_051618	0138	Flow 4	05/16/18	265777		-	-	-	Pass	18.0	19.7	9
L1817911-03	SV05_051618	551	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-0.6	-	-	-	-
L1817911-04	SV06_051618	01034	Flow 4	05/16/18	265777		-	-	-	Pass	18.0	18.6	3
L1817911-04	SV06_051618	2365	2.7L Can	05/16/18	265777	L1817399-01	Pass	-28.9	-2.6	-	-	-	-
L1817911-05	AA01_051618	0904	Flow 4	05/16/18	265777		-	-	-	Pass	17.8	16.8	6
L1817911-05	AA01_051618	213	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-6.9	-	-	-	-
L1817911-06	UNUSED CAN #183	01029	Flow 4	05/16/18	265777		-	-	-	Pass	17.9	17.9	0
L1817911-06	UNUSED CAN #183	183	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-29.7	-	-	-	-
L1817911-07	UNUSED CAN #421	0014	Flow 3	05/16/18	265777		-	-	-	Pass	17.9	17.9	0
L1817911-07	UNUSED CAN #421	421	2.7L Can	05/16/18	265777	L1817399-01	Pass	-29.7	-29.7	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 05/14/18 14:35
Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
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
1,1,1-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
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1817399**Project Number:** CANISTER QC BAT**Report Date:** 05/24/18**Air Canister Certification Results**

Lab ID: L1817399-01

Date Collected: 05/11/18 16:00

Client ID: CAN 184 SHELF 5

Date Received: 05/14/18

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	93		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/14/18 14:35
Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
Project Number: CANISTER QC BAT

Lab Number: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1817399
Report Date: 05/24/18

Air Canister Certification Results

Lab ID: L1817399-01
Client ID: CAN 184 SHELF 5
Sample Location:

Date Collected: 05/11/18 16:00
Date Received: 05/14/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817911**Project Number:** 170432001**Report Date:** 05/24/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

N/A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817911-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817911-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817911-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817911-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817911-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1817911-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()
L1817911-07A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

GLOSSARY

Acronyms

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).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

Data Qualifiers

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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817911
Report Date: 05/24/18

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

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Certification Information

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

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624:** Volatile Halocarbons & Aromatics,**EPA 608:** 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:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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



ANALYTICAL REPORT

Lab Number:	L1817937
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Brian Gochenaur
Phone:	(212) 479-5590
Project Name:	266-270 W. 96TH STREET
Project Number:	170432001
Report Date:	05/23/18

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

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



Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1817937-01	SB-03_0-2	SOIL	MANHATTAN, NY	05/16/18 11:00	05/16/18
L1817937-02	SB-03_5-5.5	SOIL	MANHATTAN, NY	05/16/18 11:15	05/16/18
L1817937-03	SB-04_0-2	SOIL	MANHATTAN, NY	05/16/18 10:00	05/16/18
L1817937-04	SB-07_0-2	SOIL	MANHATTAN, NY	05/16/18 10:25	05/16/18
L1817937-05	SB-08_0-2	SOIL	MANHATTAN, NY	05/16/18 10:45	05/16/18
L1817937-06	DUP01_051618	SOIL	MANHATTAN, NY	05/16/18 10:35	05/16/18
L1817937-07	FIELD BLANK	WATER	MANHATTAN, NY	05/16/18 15:00	05/16/18

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

Case Narrative (continued)

Report Submission

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

Sample Receipt

L1817937-07: A container for Dissolved Metals was received for the "FIELD BLANK" sample, but was not listed on the chain of custody. The analysis was not performed at the client's request.

Pesticides

L1817937-02: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1817937-01 through -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1117547-3 MS recoveries for aluminum (0%), calcium (50%), iron (0%) and magnesium (6%), performed on L1817937-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1117547-3 MS recovery, performed on L1817937-01, is outside the acceptance criteria for potassium (21%). A post digestion spike was performed and was within acceptance criteria.

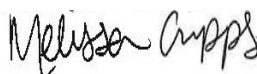
The WG1117547-4 Laboratory Duplicate RPD for manganese (22%), performed on L1817937-01, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1116794-2/-3 LCS/LCSD recoveries (73%/77%), associated with L1817937-01 through -06, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 05/23/18

ORGANICS

VOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/18 12:28
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	1.1	J	ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.3	0.55	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.43	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.30	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.63	1
Acetone	ND		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.3	0.31	1
o-Chlorotoluene	ND		ug/kg	6.3	0.28	1
p-Chlorotoluene	ND		ug/kg	6.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	1.8	J	ug/kg	6.3	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.20	1
1,2,4-Trimethylbenzene	0.24	J	ug/kg	6.3	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	105		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/19/18 14:38
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	760	120	1
1,1-Dichloroethane	ND		ug/kg	110	20.	1
Chloroform	ND		ug/kg	110	28.	1
Carbon tetrachloride	ND		ug/kg	76	26.	1
1,2-Dichloropropane	ND		ug/kg	270	17.	1
Dibromochloromethane	ND		ug/kg	76	13.	1
1,1,2-Trichloroethane	ND		ug/kg	110	24.	1
Tetrachloroethene	ND		ug/kg	76	23.	1
Chlorobenzene	ND		ug/kg	76	26.	1
Trichlorofluoromethane	ND		ug/kg	380	32.	1
1,2-Dichloroethane	ND		ug/kg	76	19.	1
1,1,1-Trichloroethane	ND		ug/kg	76	27.	1
Bromodichloromethane	ND		ug/kg	76	23.	1
trans-1,3-Dichloropropene	ND		ug/kg	76	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	76	18.	1
1,3-Dichloropropene, Total	ND		ug/kg	76	16.	1
1,1-Dichloropropene	ND		ug/kg	380	25.	1
Bromoform	ND		ug/kg	300	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	76	23.	1
Benzene	ND		ug/kg	76	15.	1
Toluene	ND		ug/kg	110	15.	1
Ethylbenzene	26	J	ug/kg	76	13.	1
Chloromethane	ND		ug/kg	380	33.	1
Bromomethane	ND		ug/kg	150	26.	1
Vinyl chloride	ND		ug/kg	150	24.	1
Chloroethane	ND		ug/kg	150	24.	1
1,1-Dichloroethene	ND		ug/kg	76	28.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	18.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	76	23.	1
1,2-Dichlorobenzene	ND		ug/kg	380	14.	1
1,3-Dichlorobenzene	ND		ug/kg	380	17.	1
1,4-Dichlorobenzene	ND		ug/kg	380	14.	1
Methyl tert butyl ether	ND		ug/kg	150	12.	1
p/m-Xylene	ND		ug/kg	150	27.	1
o-Xylene	ND		ug/kg	150	26.	1
Xylenes, Total	ND		ug/kg	150	26.	1
cis-1,2-Dichloroethene	ND		ug/kg	76	26.	1
1,2-Dichloroethene, Total	ND		ug/kg	76	18.	1
Dibromomethane	ND		ug/kg	760	18.	1
Styrene	ND		ug/kg	150	30.	1
Dichlorodifluoromethane	ND		ug/kg	760	38.	1
Acetone	ND		ug/kg	760	170	1
Carbon disulfide	ND		ug/kg	760	84.	1
2-Butanone	ND		ug/kg	760	52.	1
Vinyl acetate	ND		ug/kg	760	12.	1
4-Methyl-2-pentanone	ND		ug/kg	760	18.	1
1,2,3-Trichloropropane	ND		ug/kg	760	13.	1
2-Hexanone	ND		ug/kg	760	51.	1
Bromochloromethane	ND		ug/kg	380	27.	1
2,2-Dichloropropane	ND		ug/kg	380	34.	1
1,2-Dibromoethane	ND		ug/kg	300	15.	1
1,3-Dichloropropane	ND		ug/kg	380	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	76	24.	1
Bromobenzene	ND		ug/kg	380	17.	1
n-Butylbenzene	ND		ug/kg	76	17.	1
sec-Butylbenzene	ND		ug/kg	76	16.	1
tert-Butylbenzene	ND		ug/kg	380	19.	1
o-Chlorotoluene	ND		ug/kg	380	17.	1
p-Chlorotoluene	ND		ug/kg	380	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	380	30.	1
Hexachlorobutadiene	ND		ug/kg	380	26.	1
Isopropylbenzene	ND		ug/kg	76	15.	1
p-Isopropyltoluene	ND		ug/kg	76	15.	1
Naphthalene	4200		ug/kg	380	10.	1
Acrylonitrile	ND		ug/kg	760	39.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	76	16.	1
1,2,3-Trichlorobenzene	ND		ug/kg	380	19.	1
1,2,4-Trichlorobenzene	31	J	ug/kg	380	16.	1
1,3,5-Trimethylbenzene	12	J	ug/kg	380	12.	1
1,2,4-Trimethylbenzene	26	J	ug/kg	380	14.	1
1,4-Dioxane	ND		ug/kg	3000	1100	1
p-Diethylbenzene	ND		ug/kg	300	300	1
p-Ethyltoluene	38	J	ug/kg	300	18.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	300	12.	1
Ethyl ether	ND		ug/kg	380	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	30.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/18 13:22
Analyst: JC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	1.2		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.38	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.50	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.28	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.39	1
Xylenes, Total	ND		ug/kg	2.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.28	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	ND		ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.79	1
Vinyl acetate	ND		ug/kg	11	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.41	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.52	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.40	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	4.1	J	ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.59	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	46	16.	1
p-Diethylbenzene	ND		ug/kg	4.6	4.6	1
p-Ethyltoluene	ND		ug/kg	4.6	0.27	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/18 13:48
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	0.56	J	ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.6	0.48	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.38	1
Xylenes, Total	ND		ug/kg	2.2	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.56	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.77	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.6	0.27	1
o-Chlorotoluene	ND		ug/kg	5.6	0.24	1
p-Chlorotoluene	ND		ug/kg	5.6	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	2.9	J	ug/kg	5.6	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.21	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/18 11:09
Analyst: MV
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	710	120	1
1,1-Dichloroethane	ND		ug/kg	110	19.	1
Chloroform	ND		ug/kg	110	26.	1
Carbon tetrachloride	ND		ug/kg	71	24.	1
1,2-Dichloropropane	ND		ug/kg	250	16.	1
Dibromochloromethane	ND		ug/kg	71	12.	1
1,1,2-Trichloroethane	ND		ug/kg	110	22.	1
Tetrachloroethene	ND		ug/kg	71	21.	1
Chlorobenzene	ND		ug/kg	71	25.	1
Trichlorofluoromethane	ND		ug/kg	360	30.	1
1,2-Dichloroethane	ND		ug/kg	71	17.	1
1,1,1-Trichloroethane	ND		ug/kg	71	25.	1
Bromodichloromethane	ND		ug/kg	71	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	71	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	71	16.	1
1,3-Dichloropropene, Total	ND		ug/kg	71	15.	1
1,1-Dichloropropene	ND		ug/kg	360	23.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	71	21.	1
Benzene	ND		ug/kg	71	14.	1
Toluene	ND		ug/kg	110	14.	1
Ethylbenzene	27	J	ug/kg	71	12.	1
Chloromethane	ND		ug/kg	360	31.	1
Bromomethane	ND		ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	71	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	17.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	71	21.	1
1,2-Dichlorobenzene	ND		ug/kg	360	13.	1
1,3-Dichlorobenzene	ND		ug/kg	360	16.	1
1,4-Dichlorobenzene	ND		ug/kg	360	13.	1
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	ND		ug/kg	140	25.	1
o-Xylene	ND		ug/kg	140	24.	1
Xylenes, Total	ND		ug/kg	140	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	71	24.	1
1,2-Dichloroethene, Total	ND		ug/kg	71	17.	1
Dibromomethane	ND		ug/kg	710	17.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	710	36.	1
Acetone	ND		ug/kg	710	160	1
Carbon disulfide	ND		ug/kg	710	78.	1
2-Butanone	ND		ug/kg	710	49.	1
Vinyl acetate	ND		ug/kg	710	11.	1
4-Methyl-2-pentanone	ND		ug/kg	710	17.	1
1,2,3-Trichloropropane	ND		ug/kg	710	12.	1
2-Hexanone	ND		ug/kg	710	47.	1
Bromochloromethane	ND		ug/kg	360	25.	1
2,2-Dichloropropane	ND		ug/kg	360	32.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
1,3-Dichloropropane	ND		ug/kg	360	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	71	23.	1
Bromobenzene	ND		ug/kg	360	16.	1
n-Butylbenzene	ND		ug/kg	71	16.	1
sec-Butylbenzene	ND		ug/kg	71	15.	1
tert-Butylbenzene	ND		ug/kg	360	18.	1
o-Chlorotoluene	ND		ug/kg	360	16.	1
p-Chlorotoluene	ND		ug/kg	360	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	28.	1
Hexachlorobutadiene	ND		ug/kg	360	25.	1
Isopropylbenzene	ND		ug/kg	71	14.	1
p-Isopropyltoluene	ND		ug/kg	71	14.	1
Naphthalene	3400		ug/kg	360	9.8	1
Acrylonitrile	ND		ug/kg	710	36.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	71	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	360	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	360	11.	1
1,2,4-Trimethylbenzene	16	J	ug/kg	360	13.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
p-Diethylbenzene	ND		ug/kg	280	280	1
p-Ethyltoluene	36	J	ug/kg	280	17.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	280	11.	1
Ethyl ether	ND		ug/kg	360	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/21/18 14:15
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.0	0.61	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	ND		ug/kg	2.8	0.49	1
o-Xylene	ND		ug/kg	2.8	0.47	1
Xylenes, Total	ND		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.70	1
Acetone	ND		ug/kg	14	3.2	1
Carbon disulfide	1.5	J	ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.62	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.32	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.0	0.34	1
o-Chlorotoluene	ND		ug/kg	7.0	0.31	1
p-Chlorotoluene	ND		ug/kg	7.0	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	1.7	J	ug/kg	7.0	0.19	1
Acrylonitrile	ND		ug/kg	14	0.71	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.0	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	ND		ug/kg	5.6	5.6	1
p-Ethyltoluene	ND		ug/kg	5.6	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.0	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/21/18 14:23
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	105		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/19/18 09:53
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1117779-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/19/18 09:53
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1117779-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/19/18 09:53
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG1117779-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,06 Batch: WG1117852-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,06 Batch: WG1117852-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,06 Batch: WG1117852-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.22	J	ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

Total TIC Compounds	4.02	J	ug/kg
Unknown	4.02	J	ug/kg

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 05/21/18 08:58

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-04,06 Batch: WG1117852-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1117901-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1117901-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 08:58
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1117901-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	11	J	ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 12:32
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1118286-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 12:32
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1118286-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/21/18 12:32
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1118286-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1117779-3 WG1117779-4								
Methylene chloride	98		96		70-130	2		30
1,1-Dichloroethane	103		102		70-130	1		30
Chloroform	107		106		70-130	1		30
Carbon tetrachloride	101		98		70-130	3		30
1,2-Dichloropropane	100		100		70-130	0		30
Dibromochloromethane	102		102		70-130	0		30
1,1,2-Trichloroethane	89		89		70-130	0		30
Tetrachloroethene	98		95		70-130	3		30
Chlorobenzene	99		98		70-130	1		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	104		102		70-130	2		30
1,1,1-Trichloroethane	102		101		70-130	1		30
Bromodichloromethane	107		104		70-130	3		30
trans-1,3-Dichloropropene	96		94		70-130	2		30
cis-1,3-Dichloropropene	105		102		70-130	3		30
1,1-Dichloropropene	96		97		70-130	1		30
Bromoform	94		93		70-130	1		30
1,1,2,2-Tetrachloroethane	92		91		70-130	1		30
Benzene	101		101		70-130	0		30
Toluene	93		94		70-130	1		30
Ethylbenzene	93		93		70-130	0		30
Chloromethane	98		93		52-130	5		30
Bromomethane	108		105		57-147	3		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1117779-3 WG1117779-4								
Vinyl chloride	99		96		67-130	3		30
Chloroethane	111		107		50-151	4		30
1,1-Dichloroethene	99		97		65-135	2		30
trans-1,2-Dichloroethene	106		104		70-130	2		30
Trichloroethene	103		103		70-130	0		30
1,2-Dichlorobenzene	94		92		70-130	2		30
1,3-Dichlorobenzene	94		93		70-130	1		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	104		99		66-130	5		30
p/m-Xylene	95		95		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	107		106		70-130	1		30
Dibromomethane	106		102		70-130	4		30
Styrene	96		95		70-130	1		30
Dichlorodifluoromethane	88		85		30-146	3		30
Acetone	98		83		54-140	17		30
Carbon disulfide	94		90		59-130	4		30
2-Butanone	97		73		70-130	28		30
Vinyl acetate	98		94		70-130	4		30
4-Methyl-2-pentanone	88		84		70-130	5		30
1,2,3-Trichloropropane	91		88		68-130	3		30
2-Hexanone	87		77		70-130	12		30
Bromochloromethane	117		111		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1117779-3 WG1117779-4								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	100		99		70-130	1		30
1,3-Dichloropropane	102		97		69-130	5		30
1,1,1,2-Tetrachloroethane	100		101		70-130	1		30
Bromobenzene	96		96		70-130	0		30
n-Butylbenzene	84		84		70-130	0		30
sec-Butylbenzene	86		85		70-130	1		30
tert-Butylbenzene	88		88		70-130	0		30
o-Chlorotoluene	86		87		70-130	1		30
p-Chlorotoluene	90		88		70-130	2		30
1,2-Dibromo-3-chloropropane	89		86		68-130	3		30
Hexachlorobutadiene	86		87		67-130	1		30
Isopropylbenzene	89		89		70-130	0		30
p-Isopropyltoluene	88		88		70-130	0		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	100		91		70-130	9		30
n-Propylbenzene	87		86		70-130	1		30
1,2,3-Trichlorobenzene	93		92		70-130	1		30
1,2,4-Trichlorobenzene	94		91		70-130	3		30
1,3,5-Trimethylbenzene	90		89		70-130	1		30
1,2,4-Trimethylbenzene	91		89		70-130	2		30
1,4-Dioxane	100		96		65-136	4		30
p-Diethylbenzene	89		86		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG1117779-3 WG1117779-4								
p-Ethyltoluene	90		88		70-130	2		30
1,2,4,5-Tetramethylbenzene	90		88		70-130	2		30
Ethyl ether	111		107		67-130	4		30
trans-1,4-Dichloro-2-butene	86		81		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
Toluene-d8	96		95		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,06 Batch: WG1117852-3 WG1117852-4								
Methylene chloride	95		90		70-130	5		30
1,1-Dichloroethane	99		96		70-130	3		30
Chloroform	101		98		70-130	3		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	96		94		70-130	2		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	86		83		70-130	4		30
Tetrachloroethene	94		90		70-130	4		30
Chlorobenzene	91		89		70-130	2		30
Trichlorofluoromethane	106		100		70-139	6		30
1,2-Dichloroethane	103		100		70-130	3		30
1,1,1-Trichloroethane	102		100		70-130	2		30
Bromodichloromethane	103		99		70-130	4		30
trans-1,3-Dichloropropene	94		87		70-130	8		30
cis-1,3-Dichloropropene	102		98		70-130	4		30
1,1-Dichloropropene	97		94		70-130	3		30
Bromoform	92		87		70-130	6		30
1,1,2,2-Tetrachloroethane	92		86		70-130	7		30
Benzene	96		93		70-130	3		30
Toluene	86		83		70-130	4		30
Ethylbenzene	86		85		70-130	1		30
Chloromethane	99		90		52-130	10		30
Bromomethane	104		96		57-147	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,06 Batch: WG1117852-3 WG1117852-4								
Vinyl chloride	100		93		67-130	7		30
Chloroethane	102		98		50-151	4		30
1,1-Dichloroethene	96		95		65-135	1		30
trans-1,2-Dichloroethene	98		97		70-130	1		30
Trichloroethene	97		96		70-130	1		30
1,2-Dichlorobenzene	90		87		70-130	3		30
1,3-Dichlorobenzene	89		89		70-130	0		30
1,4-Dichlorobenzene	89		86		70-130	3		30
Methyl tert butyl ether	103		96		66-130	7		30
p/m-Xylene	89		88		70-130	1		30
o-Xylene	91		89		70-130	2		30
cis-1,2-Dichloroethene	101		99		70-130	2		30
Dibromomethane	103		101		70-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	94		89		30-146	5		30
Acetone	99		83		54-140	18		30
Carbon disulfide	92		87		59-130	6		30
2-Butanone	107		94		70-130	13		30
Vinyl acetate	105		101		70-130	4		30
4-Methyl-2-pentanone	90		79		70-130	13		30
1,2,3-Trichloropropane	88		85		68-130	3		30
2-Hexanone	84		80		70-130	5		30
Bromochloromethane	110		105		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,06 Batch: WG1117852-3 WG1117852-4								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	95		91		70-130	4		30
1,3-Dichloropropane	93		91		69-130	2		30
1,1,1,2-Tetrachloroethane	93		92		70-130	1		30
Bromobenzene	89		87		70-130	2		30
n-Butylbenzene	83		81		70-130	2		30
sec-Butylbenzene	84		82		70-130	2		30
tert-Butylbenzene	85		83		70-130	2		30
o-Chlorotoluene	81		81		70-130	0		30
p-Chlorotoluene	85		83		70-130	2		30
1,2-Dibromo-3-chloropropane	87		82		68-130	6		30
Hexachlorobutadiene	85		82		67-130	4		30
Isopropylbenzene	85		82		70-130	4		30
p-Isopropyltoluene	85		84		70-130	1		30
Naphthalene	88		85		70-130	3		30
Acrylonitrile	102		98		70-130	4		30
n-Propylbenzene	83		81		70-130	2		30
1,2,3-Trichlorobenzene	91		88		70-130	3		30
1,2,4-Trichlorobenzene	94		89		70-130	5		30
1,3,5-Trimethylbenzene	84		82		70-130	2		30
1,2,4-Trimethylbenzene	85		82		70-130	4		30
1,4-Dioxane	101		95		65-136	6		30
p-Diethylbenzene	86		83		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-04,06 Batch: WG1117852-3 WG1117852-4								
p-Ethyltoluene	85		82		70-130	4		30
1,2,4,5-Tetramethylbenzene	87		83		70-130	5		30
Ethyl ether	109		101		67-130	8		30
trans-1,4-Dichloro-2-butene	84		82		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	95		93		70-130
Dibromofluoromethane	106		106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1117901-3 WG1117901-4								
Methylene chloride	95		90		70-130	5		30
1,1-Dichloroethane	99		96		70-130	3		30
Chloroform	101		98		70-130	3		30
Carbon tetrachloride	104		102		70-130	2		30
1,2-Dichloropropane	96		94		70-130	2		30
Dibromochloromethane	98		96		70-130	2		30
1,1,2-Trichloroethane	86		83		70-130	4		30
Tetrachloroethene	94		90		70-130	4		30
Chlorobenzene	91		89		70-130	2		30
Trichlorofluoromethane	106		100		70-139	6		30
1,2-Dichloroethane	103		100		70-130	3		30
1,1,1-Trichloroethane	102		100		70-130	2		30
Bromodichloromethane	103		99		70-130	4		30
trans-1,3-Dichloropropene	94		87		70-130	8		30
cis-1,3-Dichloropropene	102		98		70-130	4		30
1,1-Dichloropropene	97		94		70-130	3		30
Bromoform	92		87		70-130	6		30
1,1,2,2-Tetrachloroethane	92		86		70-130	7		30
Benzene	96		93		70-130	3		30
Toluene	86		83		70-130	4		30
Ethylbenzene	86		85		70-130	1		30
Chloromethane	99		90		52-130	10		30
Bromomethane	104		96		57-147	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1117901-3 WG1117901-4								
Vinyl chloride	100		93		67-130	7		30
Chloroethane	102		98		50-151	4		30
1,1-Dichloroethene	96		95		65-135	1		30
trans-1,2-Dichloroethene	98		97		70-130	1		30
Trichloroethene	97		96		70-130	1		30
1,2-Dichlorobenzene	90		87		70-130	3		30
1,3-Dichlorobenzene	89		89		70-130	0		30
1,4-Dichlorobenzene	89		86		70-130	3		30
Methyl tert butyl ether	103		96		66-130	7		30
p/m-Xylene	89		88		70-130	1		30
o-Xylene	91		89		70-130	2		30
cis-1,2-Dichloroethene	101		99		70-130	2		30
Dibromomethane	103		101		70-130	2		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	94		89		30-146	5		30
Acetone	99		83		54-140	18		30
Carbon disulfide	92		87		59-130	6		30
2-Butanone	107		94		70-130	13		30
Vinyl acetate	105		101		70-130	4		30
4-Methyl-2-pentanone	90		79		70-130	13		30
1,2,3-Trichloropropane	88		85		68-130	3		30
2-Hexanone	84		80		70-130	5		30
Bromochloromethane	110		105		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1117901-3 WG1117901-4								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	95		91		70-130	4		30
1,3-Dichloropropane	93		91		69-130	2		30
1,1,1,2-Tetrachloroethane	93		92		70-130	1		30
Bromobenzene	89		87		70-130	2		30
n-Butylbenzene	83		81		70-130	2		30
sec-Butylbenzene	84		82		70-130	2		30
tert-Butylbenzene	85		83		70-130	2		30
o-Chlorotoluene	81		81		70-130	0		30
p-Chlorotoluene	85		83		70-130	2		30
1,2-Dibromo-3-chloropropane	87		82		68-130	6		30
Hexachlorobutadiene	85		82		67-130	4		30
Isopropylbenzene	85		82		70-130	4		30
p-Isopropyltoluene	85		84		70-130	1		30
Naphthalene	88		85		70-130	3		30
Acrylonitrile	102		98		70-130	4		30
n-Propylbenzene	83		81		70-130	2		30
1,2,3-Trichlorobenzene	91		88		70-130	3		30
1,2,4-Trichlorobenzene	94		89		70-130	5		30
1,3,5-Trimethylbenzene	84		82		70-130	2		30
1,2,4-Trimethylbenzene	85		82		70-130	4		30
1,4-Dioxane	101		95		65-136	6		30
p-Diethylbenzene	86		83		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1117901-3 WG1117901-4								
p-Ethyltoluene	85		82		70-130	4		30
1,2,4,5-Tetramethylbenzene	87		83		70-130	5		30
Ethyl ether	109		101		67-130	8		30
trans-1,4-Dichloro-2-butene	84		82		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	96		93		70-130
Dibromofluoromethane	106		106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1118286-3 WG1118286-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	100		110		63-132	10		20
1,2-Dichloropropane	98		100		70-130	2		20
Dibromochloromethane	83		88		63-130	6		20
1,1,2-Trichloroethane	90		95		70-130	5		20
Tetrachloroethene	87		93		70-130	7		20
Chlorobenzene	90		96		75-130	6		20
Trichlorofluoromethane	96		100		62-150	4		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	99		100		67-130	1		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	87		92		70-130	6		20
cis-1,3-Dichloropropene	97		100		70-130	3		20
1,1-Dichloropropene	97		100		70-130	3		20
Bromoform	76		80		54-136	5		20
1,1,2,2-Tetrachloroethane	87		93		67-130	7		20
Benzene	100		100		70-130	0		20
Toluene	90		94		70-130	4		20
Ethylbenzene	93		98		70-130	5		20
Chloromethane	84		89		64-130	6		20
Bromomethane	95		100		39-139	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1118286-3 WG1118286-4								
Vinyl chloride	95		100		55-140	5		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	97		99		61-145	2		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	91		95		70-130	4		20
1,3-Dichlorobenzene	89		94		70-130	5		20
1,4-Dichlorobenzene	88		93		70-130	6		20
Methyl tert butyl ether	95		100		63-130	5		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	99		100		70-130	1		20
1,2,3-Trichloropropane	84		89		64-130	6		20
Acrylonitrile	99		110		70-130	11		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	92		98		36-147	6		20
Acetone	100		110		58-148	10		20
Carbon disulfide	95		99		51-130	4		20
2-Butanone	100		110		63-138	10		20
Vinyl acetate	100		110		70-130	10		20
4-Methyl-2-pentanone	86		96		59-130	11		20
2-Hexanone	87		97		57-130	11		20

Lab Control Sample Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1118286-3 WG1118286-4								
Bromochloromethane	100		110		70-130	10		20
2,2-Dichloropropane	96		99		63-133	3		20
1,2-Dibromoethane	89		94		70-130	5		20
1,3-Dichloropropane	88		94		70-130	7		20
1,1,1,2-Tetrachloroethane	90		93		64-130	3		20
Bromobenzene	86		91		70-130	6		20
n-Butylbenzene	92		95		53-136	3		20
sec-Butylbenzene	88		93		70-130	6		20
tert-Butylbenzene	86		92		70-130	7		20
o-Chlorotoluene	87		91		70-130	4		20
p-Chlorotoluene	86		92		70-130	7		20
1,2-Dibromo-3-chloropropane	80		88		41-144	10		20
Hexachlorobutadiene	98		100		63-130	2		20
Isopropylbenzene	87		91		70-130	4		20
p-Isopropyltoluene	89		94		70-130	5		20
Naphthalene	140	Q	150	Q	70-130	7		20
n-Propylbenzene	88		93		69-130	6		20
1,2,3-Trichlorobenzene	200	Q	230	Q	70-130	14		20
1,2,4-Trichlorobenzene	110		120		70-130	9		20
1,3,5-Trimethylbenzene	88		93		64-130	6		20
1,2,4-Trimethylbenzene	90		95		70-130	5		20
1,4-Dioxane	118		130		56-162	10		20
p-Diethylbenzene	92		96		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1118286-3 WG1118286-4								
p-Ethyltoluene	88		91		70-130	3		20
1,2,4,5-Tetramethylbenzene	92		95		70-130	3		20
Ethyl ether	98		100		59-134	2		20
trans-1,4-Dichloro-2-butene	73		78		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		104		70-130
Toluene-d8	94		94		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	103		102		70-130

SEMIVOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 15:59
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1300		ug/kg	150	19.	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	5100		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	220	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	3200		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	71	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
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	39.	1
Benzo(a)anthracene	2400		ug/kg	110	21.	1
Benzo(a)pyrene	2100		ug/kg	150	46.	1
Benzo(b)fluoranthene	2000		ug/kg	110	32.	1
Benzo(k)fluoranthene	630		ug/kg	110	30.	1
Chrysene	2100		ug/kg	110	20.	1
Acenaphthylene	100	J	ug/kg	150	29.	1
Anthracene	2500		ug/kg	110	37.	1
Benzo(ghi)perylene	1100		ug/kg	150	22.	1
Fluorene	1400		ug/kg	190	18.	1
Phenanthrene	7800	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	220		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	150	26.	1
Pyrene	6400		ug/kg	110	19.	1
Biphenyl	290	J	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	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	390		ug/kg	190	18.	1
2-Methylnaphthalene	1200		ug/kg	220	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	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	36	J	ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	79	J	ug/kg	270	29.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
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	410		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	77		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01 D
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/22/18 17:55
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

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

Phenanthrene	9700		ug/kg	220	46.	2
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Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D2
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/23/18 10:24
Analyst: ALS
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	65000		ug/kg	2800	550	25
Naphthalene	45000		ug/kg	4800	580	25
Phenanthrene	120000		ug/kg	2800	580	25
Pyrene	80000		ug/kg	2800	470	25

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/22/18 18:47
Analyst: ALS
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	18000		ug/kg	760	98.	5
1,2,4-Trichlorobenzene	ND		ug/kg	950	110	5
Hexachlorobenzene	ND		ug/kg	570	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	860	130	5
2-Chloronaphthalene	ND		ug/kg	950	94.	5
1,2-Dichlorobenzene	ND		ug/kg	950	170	5
1,3-Dichlorobenzene	ND		ug/kg	950	160	5
1,4-Dichlorobenzene	ND		ug/kg	950	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	950	250	5
2,4-Dinitrotoluene	ND		ug/kg	950	190	5
2,6-Dinitrotoluene	ND		ug/kg	950	160	5
Fluoranthene	56000	E	ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	950	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	950	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	95.	5
Hexachlorobutadiene	ND		ug/kg	950	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	860	120	5
Naphthalene	38000	E	ug/kg	950	120	5
Nitrobenzene	ND		ug/kg	860	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	950	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	950	330	5
Butyl benzyl phthalate	ND		ug/kg	950	240	5
Di-n-butylphthalate	ND		ug/kg	950	180	5
Di-n-octylphthalate	ND		ug/kg	950	320	5

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
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	950	88.	5
Dimethyl phthalate	ND		ug/kg	950	200	5
Benzo(a)anthracene	32000		ug/kg	570	110	5
Benzo(a)pyrene	28000		ug/kg	760	230	5
Benzo(b)fluoranthene	27000		ug/kg	570	160	5
Benzo(k)fluoranthene	5800		ug/kg	570	150	5
Chrysene	25000		ug/kg	570	99.	5
Acenaphthylene	1400		ug/kg	760	150	5
Anthracene	32000		ug/kg	570	180	5
Benzo(ghi)perylene	15000		ug/kg	760	110	5
Fluorene	19000		ug/kg	950	92.	5
Phenanthrene	84000	E	ug/kg	570	120	5
Dibenzo(a,h)anthracene	3100		ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	14000		ug/kg	760	130	5
Pyrene	67000	E	ug/kg	570	94.	5
Biphenyl	4000		ug/kg	2200	220	5
4-Chloroaniline	ND		ug/kg	950	170	5
2-Nitroaniline	ND		ug/kg	950	180	5
3-Nitroaniline	ND		ug/kg	950	180	5
4-Nitroaniline	ND		ug/kg	950	390	5
Dibenzofuran	5500		ug/kg	950	90.	5
2-Methylnaphthalene	16000		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	950	99.	5
Acetophenone	ND		ug/kg	950	120	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	950	140	5
2-Chlorophenol	ND		ug/kg	950	110	5
2,4-Dichlorophenol	ND		ug/kg	860	150	5
2,4-Dimethylphenol	ND		ug/kg	950	310	5
2-Nitrophenol	ND		ug/kg	2000	360	5
4-Nitrophenol	ND		ug/kg	1300	390	5
2,4-Dinitrophenol	ND		ug/kg	4600	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	460	5
Pentachlorophenol	ND		ug/kg	760	210	5
Phenol	400	J	ug/kg	950	140	5
2-Methylphenol	ND		ug/kg	950	150	5
3-Methylphenol/4-Methylphenol	1100	J	ug/kg	1400	150	5

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
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	950	180	5
Benzoic Acid	ND		ug/kg	3100	960	5
Benzyl Alcohol	ND		ug/kg	950	290	5
Carbazole	5400		ug/kg	950	92.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	95		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/22/18 17:29
Analyst: EK
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	44	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	330		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	89	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	69	J	ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
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	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	210		ug/kg	120	22.	1
Benzo(a)pyrene	310		ug/kg	160	48.	1
Benzo(b)fluoranthene	300		ug/kg	120	33.	1
Benzo(k)fluoranthene	110	J	ug/kg	120	32.	1
Chrysene	210		ug/kg	120	21.	1
Acenaphthylene	53	J	ug/kg	160	30.	1
Anthracene	110	J	ug/kg	120	39.	1
Benzo(ghi)perylene	190		ug/kg	160	23.	1
Fluorene	54	J	ug/kg	200	19.	1
Phenanthrene	380		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	40	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	160	28.	1
Pyrene	470		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	21	J	ug/kg	200	19.	1
2-Methylnaphthalene	35	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	430	74.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
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	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	19	J	ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	83		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 17:12
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	83	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	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	690		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	230		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	80	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
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	460		ug/kg	110	22.	1
Benzo(a)pyrene	490		ug/kg	150	47.	1
Benzo(b)fluoranthene	530		ug/kg	110	32.	1
Benzo(k)fluoranthene	150		ug/kg	110	30.	1
Chrysene	430		ug/kg	110	20.	1
Acenaphthylene	88	J	ug/kg	150	30.	1
Anthracene	190		ug/kg	110	37.	1
Benzo(ghi)perylene	310		ug/kg	150	22.	1
Fluorene	89	J	ug/kg	190	18.	1
Phenanthrene	610		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	63	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	300		ug/kg	150	27.	1
Pyrene	930		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	38	J	ug/kg	190	18.	1
2-Methylnaphthalene	74	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	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
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	36	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	79		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 17:36
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1600		ug/kg	150	19.	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	25.	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	7000		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	220	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	2900		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	110	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
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	39.	1
Benzo(a)anthracene	3100		ug/kg	110	21.	1
Benzo(a)pyrene	2800		ug/kg	150	46.	1
Benzo(b)fluoranthene	2800		ug/kg	110	32.	1
Benzo(k)fluoranthene	780		ug/kg	110	30.	1
Chrysene	2700		ug/kg	110	20.	1
Acenaphthylene	150		ug/kg	150	29.	1
Anthracene	3300		ug/kg	110	37.	1
Benzo(ghi)perylene	1600		ug/kg	150	22.	1
Fluorene	1700		ug/kg	190	18.	1
Phenanthrene	9900	E	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	300		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1500		ug/kg	150	26.	1
Pyrene	7800	E	ug/kg	110	19.	1
Biphenyl	330	J	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	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	720		ug/kg	190	18.	1
2-Methylnaphthalene	1200		ug/kg	220	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	400	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	130	J	ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	93	J	ug/kg	270	29.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
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	720		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	25		10-136
4-Terphenyl-d14	81		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05 D
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/22/18 18:21
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	12000		ug/kg	220	46.	2
Pyrene	9100		ug/kg	220	37.	2

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/18/18 18:00
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	400		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
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	34.	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	3800		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	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	740		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	120	J	ug/kg	190	67.	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	66.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
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	2000		ug/kg	120	22.	1
Benzo(a)pyrene	1800		ug/kg	150	47.	1
Benzo(b)fluoranthene	2000		ug/kg	120	32.	1
Benzo(k)fluoranthene	560		ug/kg	120	31.	1
Chrysene	1800		ug/kg	120	20.	1
Acenaphthylene	180		ug/kg	150	30.	1
Anthracene	1100		ug/kg	120	38.	1
Benzo(ghi)perylene	1200		ug/kg	150	23.	1
Fluorene	470		ug/kg	190	19.	1
Phenanthrene	3900		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	230		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	150	27.	1
Pyrene	4600		ug/kg	120	19.	1
Biphenyl	81	J	ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	170	J	ug/kg	190	18.	1
2-Methylnaphthalene	280		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
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	59.	1
Carbazole	200		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	75		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/20/18 03:24
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 05/18/18 08:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	36		21-120
Phenol-d6	24		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	82		41-149

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/19/18 18:25
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 05/18/18 12:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	66		41-149

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 11:34
 Analyst: CB

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1116841-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	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	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	72	J	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: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 11:34
 Analyst: CB

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1116841-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/18/18 11:34
 Analyst: CB

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 12:22

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1116841-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	105		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	108		18-120

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/20/18 00:52
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1117135-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/20/18 00:52
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1117135-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/20/18 00:52
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 08:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1117135-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

Total TIC Compounds	8.22	J	ug/l
Aldol Condensate	8.22	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	72		10-120
4-Terphenyl-d14	86		41-149

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 05/19/18 15:24
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 08:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07 Batch: WG1117137-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D-SIM
 Analytical Date: 05/19/18 15:24
 Analyst: KL

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 08:16

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07 Batch: WG1117137-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	29		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	50		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	61		10-120
4-Terphenyl-d14	77		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1116841-2 WG1116841-3								
Acenaphthene	89		90		31-137	1		50
1,2,4-Trichlorobenzene	96		97		38-107	1		50
Hexachlorobenzene	95		98		40-140	3		50
Bis(2-chloroethyl)ether	94		93		40-140	1		50
2-Chloronaphthalene	98		99		40-140	1		50
1,2-Dichlorobenzene	91		89		40-140	2		50
1,3-Dichlorobenzene	87		86		40-140	1		50
1,4-Dichlorobenzene	88		86		28-104	2		50
3,3'-Dichlorobenzidine	71		74		40-140	4		50
2,4-Dinitrotoluene	98		101		40-132	3		50
2,6-Dinitrotoluene	104		108		40-140	4		50
Fluoranthene	93		99		40-140	6		50
4-Chlorophenyl phenyl ether	93		94		40-140	1		50
4-Bromophenyl phenyl ether	98		100		40-140	2		50
Bis(2-chloroisopropyl)ether	92		92		40-140	0		50
Bis(2-chloroethoxy)methane	100		101		40-117	1		50
Hexachlorobutadiene	90		89		40-140	1		50
Hexachlorocyclopentadiene	96		96		40-140	0		50
Hexachloroethane	89		87		40-140	2		50
Isophorone	98		99		40-140	1		50
Naphthalene	91		90		40-140	1		50
Nitrobenzene	97		97		40-140	0		50
NDPA/DPA	94		98		36-157	4		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1116841-2 WG1116841-3								
n-Nitrosodi-n-propylamine	97		96		32-121	1		50
Bis(2-ethylhexyl)phthalate	103		108		40-140	5		50
Butyl benzyl phthalate	102		107		40-140	5		50
Di-n-butylphthalate	95		102		40-140	7		50
Di-n-octylphthalate	103		110		40-140	7		50
Diethyl phthalate	94		98		40-140	4		50
Dimethyl phthalate	102		108		40-140	6		50
Benzo(a)anthracene	89		94		40-140	5		50
Benzo(a)pyrene	93		99		40-140	6		50
Benzo(b)fluoranthene	88		99		40-140	12		50
Benzo(k)fluoranthene	89		96		40-140	8		50
Chrysene	87		92		40-140	6		50
Acenaphthylene	104		108		40-140	4		50
Anthracene	92		99		40-140	7		50
Benzo(ghi)perylene	89		95		40-140	7		50
Fluorene	94		96		40-140	2		50
Phenanthrene	87		92		40-140	6		50
Dibenzo(a,h)anthracene	92		98		40-140	6		50
Indeno(1,2,3-cd)pyrene	93		100		40-140	7		50
Pyrene	91		98		35-142	7		50
Biphenyl	104		105	Q	54-104	1		50
4-Chloroaniline	93		88		40-140	6		50
2-Nitroaniline	108		114		47-134	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1116841-2 WG1116841-3								
3-Nitroaniline	86		87		26-129	1		50
4-Nitroaniline	99		105		41-125	6		50
Dibenzofuran	91		94		40-140	3		50
2-Methylnaphthalene	98		99		40-140	1		50
1,2,4,5-Tetrachlorobenzene	98		100		40-117	2		50
Acetophenone	105		106		14-144	1		50
2,4,6-Trichlorophenol	106		110		30-130	4		50
p-Chloro-m-cresol	103		110	Q	26-103	7		50
2-Chlorophenol	99		100		25-102	1		50
2,4-Dichlorophenol	110		111		30-130	1		50
2,4-Dimethylphenol	110		111		30-130	1		50
2-Nitrophenol	106		108		30-130	2		50
4-Nitrophenol	116	Q	119	Q	11-114	3		50
2,4-Dinitrophenol	78		79		4-130	1		50
4,6-Dinitro-o-cresol	104		108		10-130	4		50
Pentachlorophenol	92		96		17-109	4		50
Phenol	103	Q	105	Q	26-90	2		50
2-Methylphenol	102		104		30-130.	2		50
3-Methylphenol/4-Methylphenol	105		107		30-130	2		50
2,4,5-Trichlorophenol	107		112		30-130	5		50
Benzoic Acid	45		45		10-110	0		50
Benzyl Alcohol	107		105		40-140	2		50
Carbazole	94		99		54-128	5		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1116841-2 WG1116841-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	98		99		25-120
Phenol-d6	104		104		10-120
Nitrobenzene-d5	95		97		23-120
2-Fluorobiphenyl	99		102		30-120
2,4,6-Tribromophenol	99		106		10-136
4-Terphenyl-d14	93		101		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1117135-2 WG1117135-3								
Acenaphthene	79		83		37-111	5		30
1,2,4-Trichlorobenzene	71		74		39-98	4		30
Hexachlorobenzene	83		88		40-140	6		30
Bis(2-chloroethyl)ether	75		76		40-140	1		30
2-Chloronaphthalene	79		82		40-140	4		30
1,2-Dichlorobenzene	70		70		40-140	0		30
1,3-Dichlorobenzene	68		68		40-140	0		30
1,4-Dichlorobenzene	68		68		36-97	0		30
3,3'-Dichlorobenzidine	61		64		40-140	5		30
2,4-Dinitrotoluene	85		89		48-143	5		30
2,6-Dinitrotoluene	95		99		40-140	4		30
Fluoranthene	85		89		40-140	5		30
4-Chlorophenyl phenyl ether	80		83		40-140	4		30
4-Bromophenyl phenyl ether	85		90		40-140	6		30
Bis(2-chloroisopropyl)ether	78		81		40-140	4		30
Bis(2-chloroethoxy)methane	78		81		40-140	4		30
Hexachlorobutadiene	71		72		40-140	1		30
Hexachlorocyclopentadiene	77		82		40-140	6		30
Hexachloroethane	68		68		40-140	0		30
Isophorone	78		82		40-140	5		30
Naphthalene	73		75		40-140	3		30
Nitrobenzene	77		81		40-140	5		30
NDPA/DPA	82		88		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1117135-2 WG1117135-3								
n-Nitrosodi-n-propylamine	78		81		29-132	4		30
Bis(2-ethylhexyl)phthalate	87		93		40-140	7		30
Butyl benzyl phthalate	91		96		40-140	5		30
Di-n-butylphthalate	85		89		40-140	5		30
Di-n-octylphthalate	89		94		40-140	5		30
Diethyl phthalate	84		88		40-140	5		30
Dimethyl phthalate	85		88		40-140	3		30
Benzo(a)anthracene	82		86		40-140	5		30
Benzo(a)pyrene	86		92		40-140	7		30
Benzo(b)fluoranthene	85		90		40-140	6		30
Benzo(k)fluoranthene	84		90		40-140	7		30
Chrysene	82		86		40-140	5		30
Acenaphthylene	82		86		45-123	5		30
Anthracene	83		86		40-140	4		30
Benzo(ghi)perylene	83		85		40-140	2		30
Fluorene	83		87		40-140	5		30
Phenanthrene	82		84		40-140	2		30
Dibenzo(a,h)anthracene	82		85		40-140	4		30
Indeno(1,2,3-cd)pyrene	83		85		40-140	2		30
Pyrene	84		87		26-127	4		30
Biphenyl	81		85		40-140	5		30
4-Chloroaniline	60		61		40-140	2		30
2-Nitroaniline	92		100		52-143	8		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1117135-2 WG1117135-3								
3-Nitroaniline	69		72		25-145	4		30
4-Nitroaniline	86		93		51-143	8		30
Dibenzofuran	79		82		40-140	4		30
2-Methylnaphthalene	78		82		40-140	5		30
1,2,4,5-Tetrachlorobenzene	78		82		2-134	5		30
Acetophenone	79		80		39-129	1		30
2,4,6-Trichlorophenol	87		91		30-130	4		30
p-Chloro-m-cresol	84		87		23-97	4		30
2-Chlorophenol	72		74		27-123	3		30
2,4-Dichlorophenol	80		82		30-130	2		30
2,4-Dimethylphenol	76		79		30-130	4		30
2-Nitrophenol	87		92		30-130	6		30
4-Nitrophenol	60		64		10-80	6		30
2,4-Dinitrophenol	76		82		20-130	8		30
4,6-Dinitro-o-cresol	94		103		20-164	9		30
Pentachlorophenol	70		74		9-103	6		30
Phenol	36		36		12-110	0		30
2-Methylphenol	67		69		30-130	3		30
3-Methylphenol/4-Methylphenol	65		67		30-130	3		30
2,4,5-Trichlorophenol	87		91		30-130	4		30
Benzoic Acid	25		22		10-164	13		30
Benzyl Alcohol	66		67		26-116	2		30
Carbazole	83		86		55-144	4		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1117135-2 WG1117135-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		49		21-120
Phenol-d6	34		34		10-120
Nitrobenzene-d5	77		79		23-120
2-Fluorobiphenyl	79		80		15-120
2,4,6-Tribromophenol	91		93		10-120
4-Terphenyl-d14	82		83		41-149

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07 Batch: WG1117137-2 WG1117137-3								
Acenaphthene	60		60		40-140	0		40
2-Chloronaphthalene	62		63		40-140	2		40
Fluoranthene	67		66		40-140	2		40
Hexachlorobutadiene	53		55		40-140	4		40
Naphthalene	55		57		40-140	4		40
Benzo(a)anthracene	62		60		40-140	3		40
Benzo(a)pyrene	67		65		40-140	3		40
Benzo(b)fluoranthene	62		60		40-140	3		40
Benzo(k)fluoranthene	67		66		40-140	2		40
Chrysene	66		65		40-140	2		40
Acenaphthylene	62		62		40-140	0		40
Anthracene	64		64		40-140	0		40
Benzo(ghi)perylene	68		67		40-140	1		40
Fluorene	70		72		40-140	3		40
Phenanthrene	63		62		40-140	2		40
Dibenzo(a,h)anthracene	74		71		40-140	4		40
Indeno(1,2,3-cd)pyrene	74		70		40-140	6		40
Pyrene	68		67		40-140	1		40
2-Methylnaphthalene	58		59		40-140	2		40
Pentachlorophenol	73		70		40-140	4		40
Hexachlorobenzene	63		63		40-140	0		40
Hexachloroethane	53		57		40-140	7		40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07 Batch: WG1117137-2 WG1117137-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	31		34		21-120
Phenol-d6	21		22		10-120
Nitrobenzene-d5	54		56		23-120
2-Fluorobiphenyl	59		59		15-120
2,4,6-Tribromophenol	60		58		10-120
4-Terphenyl-d14	65		63		41-149

PCBS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 14:09
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	4.22	1	A
Aroclor 1221	ND		ug/kg	37.2	5.67	1	A
Aroclor 1232	ND		ug/kg	37.2	3.66	1	A
Aroclor 1242	ND		ug/kg	37.2	4.56	1	A
Aroclor 1248	ND		ug/kg	37.2	4.18	1	A
Aroclor 1254	ND		ug/kg	37.2	3.04	1	A
Aroclor 1260	ND		ug/kg	37.2	3.89	1	A
Aroclor 1262	ND		ug/kg	37.2	3.06	1	A
Aroclor 1268	ND		ug/kg	37.2	2.64	1	A
PCBs, Total	ND		ug/kg	37.2	2.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 13:04
Analyst: HT
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	4.17	1	A
Aroclor 1221	ND		ug/kg	36.8	5.59	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.50	1	A
Aroclor 1248	ND		ug/kg	36.8	4.12	1	A
Aroclor 1254	ND		ug/kg	36.8	3.00	1	A
Aroclor 1260	ND		ug/kg	36.8	3.84	1	A
Aroclor 1262	ND		ug/kg	36.8	3.02	1	A
Aroclor 1268	ND		ug/kg	36.8	2.60	1	A
PCBs, Total	ND		ug/kg	36.8	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 14:22
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.1	4.32	1	A
Aroclor 1221	ND		ug/kg	38.1	5.80	1	A
Aroclor 1232	ND		ug/kg	38.1	3.75	1	A
Aroclor 1242	ND		ug/kg	38.1	4.66	1	A
Aroclor 1248	ND		ug/kg	38.1	4.28	1	A
Aroclor 1254	ND		ug/kg	38.1	3.11	1	A
Aroclor 1260	ND		ug/kg	38.1	3.98	1	A
Aroclor 1262	ND		ug/kg	38.1	3.13	1	A
Aroclor 1268	ND		ug/kg	38.1	2.70	1	A
PCBs, Total	ND		ug/kg	38.1	2.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 14:35
Analyst: HT
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.9	4.30	1	A
Aroclor 1221	ND		ug/kg	37.9	5.77	1	A
Aroclor 1232	ND		ug/kg	37.9	3.73	1	A
Aroclor 1242	ND		ug/kg	37.9	4.64	1	A
Aroclor 1248	ND		ug/kg	37.9	4.25	1	A
Aroclor 1254	ND		ug/kg	37.9	3.09	1	A
Aroclor 1260	ND		ug/kg	37.9	3.96	1	A
Aroclor 1262	ND		ug/kg	37.9	3.11	1	A
Aroclor 1268	ND		ug/kg	37.9	2.68	1	A
PCBs, Total	ND		ug/kg	37.9	2.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 14:48
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.58	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	4.11	1	A
Aroclor 1254	ND		ug/kg	36.7	2.99	1	A
Aroclor 1260	ND		ug/kg	36.7	3.83	1	A
Aroclor 1262	ND		ug/kg	36.7	3.01	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	ND		ug/kg	36.7	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/21/18 15:01
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 08:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/17/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	4.36	1	A
Aroclor 1221	ND		ug/kg	38.5	5.86	1	A
Aroclor 1232	ND		ug/kg	38.5	3.79	1	A
Aroclor 1242	ND		ug/kg	38.5	4.71	1	A
Aroclor 1248	ND		ug/kg	38.5	4.32	1	A
Aroclor 1254	ND		ug/kg	38.5	3.14	1	A
Aroclor 1260	ND		ug/kg	38.5	4.02	1	A
Aroclor 1262	ND		ug/kg	38.5	3.16	1	A
Aroclor 1268	ND		ug/kg	38.5	2.72	1	A
PCBs, Total	ND		ug/kg	38.5	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/21/18 15:21
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 05/19/18 10:59
Cleanup Method: EPA 3665A
Cleanup Date: 05/19/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 05/18/18 09:24
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 08:00
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/17/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG1116687-1						
Aroclor 1016	ND		ug/kg	31.6	3.58	A
Aroclor 1221	ND		ug/kg	31.6	4.81	A
Aroclor 1232	ND		ug/kg	31.6	3.11	A
Aroclor 1242	ND		ug/kg	31.6	3.87	A
Aroclor 1248	ND		ug/kg	31.6	3.55	A
Aroclor 1254	ND		ug/kg	31.6	2.58	A
Aroclor 1260	ND		ug/kg	31.6	3.30	A
Aroclor 1262	ND		ug/kg	31.6	2.60	A
Aroclor 1268	ND		ug/kg	31.6	2.24	A
PCBs, Total	ND		ug/kg	31.6	2.24	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	68		30-150	B

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 05/21/18 14:13
 Analyst: HT

Extraction Method: EPA 3510C
 Extraction Date: 05/19/18 10:59
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/19/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/20/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07 Batch: WG1117571-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1116687-2 WG1116687-3									
Aroclor 1016	68		96		40-140	34		50	A
Aroclor 1260	62		89		40-140	36		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		80		30-150	A
Decachlorobiphenyl	43		61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		81		30-150	B
Decachlorobiphenyl	48		69		30-150	B

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817937**Report Date:** 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07 Batch: WG1117571-2 WG1117571-3									
Aroclor 1016	81		78		40-140	4		50	A
Aroclor 1260	74		74		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		80		30-150	A
Decachlorobiphenyl	75		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		78		30-150	B
Decachlorobiphenyl	84		83		30-150	B

PESTICIDES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/21/18 02:34
Analyst: JW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.739	0.330	1	A
Alpha-BHC	ND		ug/kg	0.739	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.672	1	A
Heptachlor	ND		ug/kg	0.887	0.398	1	A
Aldrin	ND		ug/kg	1.77	0.624	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.997	1	A
Endrin	ND		ug/kg	0.739	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.776	1	A
Endrin ketone	ND		ug/kg	1.77	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.554	1	A
4,4'-DDE	ND		ug/kg	1.77	0.410	1	A
4,4'-DDD	ND		ug/kg	1.77	0.632	1	A
4,4'-DDT	ND		ug/kg	3.32	1.43	1	A
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.592	1	A
Endosulfan sulfate	ND		ug/kg	0.739	0.352	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.31	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.585	1	A
Chlordane	ND		ug/kg	14.4	5.87	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
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	65		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	74		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/22/18 15:08
Analyst: JW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	8.97	1.76	5	A
Lindane	ND		ug/kg	3.74	1.67	5	A
Alpha-BHC	ND		ug/kg	3.74	1.06	5	A
Beta-BHC	ND		ug/kg	8.97	3.40	5	A
Heptachlor	ND		ug/kg	4.48	2.01	5	A
Aldrin	ND		ug/kg	8.97	3.16	5	A
Heptachlor epoxide	ND		ug/kg	16.8	5.05	5	A
Endrin	ND		ug/kg	3.74	1.53	5	A
Endrin aldehyde	ND		ug/kg	11.2	3.92	5	A
Endrin ketone	ND		ug/kg	8.97	2.31	5	A
Dieldrin	ND		ug/kg	5.61	2.80	5	A
4,4'-DDE	ND		ug/kg	8.97	2.07	5	A
4,4'-DDD	ND		ug/kg	8.97	3.20	5	A
4,4'-DDT	ND		ug/kg	16.8	7.21	5	A
Endosulfan I	ND		ug/kg	8.97	2.12	5	A
Endosulfan II	ND		ug/kg	8.97	3.00	5	A
Endosulfan sulfate	ND		ug/kg	3.74	1.78	5	A
Methoxychlor	ND		ug/kg	16.8	5.23	5	A
Toxaphene	ND		ug/kg	168	47.1	5	A
cis-Chlordane	ND		ug/kg	11.2	3.12	5	A
trans-Chlordane	ND		ug/kg	11.2	2.96	5	A
Chlordane	ND		ug/kg	72.9	29.7	5	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02 D
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
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	46		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	30		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/21/18 02:59
Analyst: JW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

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	0.343	1	A
Alpha-BHC	ND		ug/kg	0.768	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.921	0.413	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.04	1	A
Endrin	ND		ug/kg	0.768	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.806	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	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	0.657	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND		ug/kg	1.84	0.616	1	A
Endosulfan sulfate	ND		ug/kg	0.768	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.67	1	A
cis-Chlordane	ND		ug/kg	2.30	0.642	1	A
trans-Chlordane	ND		ug/kg	2.30	0.608	1	A
Chlordane	ND		ug/kg	15.0	6.10	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/21/18 03:11
Analyst: JW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.766	0.342	1	A
Alpha-BHC	ND		ug/kg	0.766	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.697	1	A
Heptachlor	ND		ug/kg	0.919	0.412	1	A
Aldrin	ND		ug/kg	1.84	0.647	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	A
Endrin	ND		ug/kg	0.766	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.804	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	ND		ug/kg	1.84	0.425	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	6.35	P	ug/kg	1.84	0.614	1	B
Endosulfan sulfate	ND		ug/kg	0.766	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.65	1	A
cis-Chlordane	ND		ug/kg	2.30	0.640	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	14.9	6.09	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/21/18 03:24
Analyst: JW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.735	0.328	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	0.395	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	ND		ug/kg	1.10	0.551	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	2.40		ug/kg	1.76	0.589	1	B
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	2.20	0.614	1	A
trans-Chlordane	ND		ug/kg	2.20	0.582	1	A
Chlordane	ND		ug/kg	14.3	5.84	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/21/18 03:36
Analyst: JW
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/17/18 09:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.218	1	A
Beta-BHC	ND		ug/kg	1.85	0.700	1	A
Heptachlor	ND		ug/kg	0.923	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.85	0.436	1	A
Endosulfan II	1.13	J	ug/kg	1.85	0.617	1	B
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.643	1	A
trans-Chlordane	ND		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.0	6.12	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	92		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/21/18 01:19
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/18/18 10:04

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

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/19/18 02:21
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 09:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1116754-1						
Delta-BHC	ND		ug/kg	1.54	0.302	A
Lindane	ND		ug/kg	0.643	0.287	A
Alpha-BHC	ND		ug/kg	0.643	0.183	A
Beta-BHC	ND		ug/kg	1.54	0.585	A
Heptachlor	ND		ug/kg	0.772	0.346	A
Aldrin	ND		ug/kg	1.54	0.543	A
Heptachlor epoxide	ND		ug/kg	2.89	0.868	A
Endrin	ND		ug/kg	0.643	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.675	A
Endrin ketone	ND		ug/kg	1.54	0.397	A
Dieldrin	ND		ug/kg	0.965	0.482	A
4,4'-DDE	ND		ug/kg	1.54	0.357	A
4,4'-DDD	ND		ug/kg	1.54	0.550	A
4,4'-DDT	ND		ug/kg	2.89	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.365	A
Endosulfan II	ND		ug/kg	1.54	0.516	A
Endosulfan sulfate	ND		ug/kg	0.643	0.306	A
Methoxychlor	ND		ug/kg	2.89	0.900	A
Toxaphene	ND		ug/kg	28.9	8.10	A
cis-Chlordane	ND		ug/kg	1.93	0.538	A
trans-Chlordane	ND		ug/kg	1.93	0.509	A
Chlordane	ND		ug/kg	12.5	5.11	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/19/18 02:21
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 05/17/18 09:50
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/18/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG1116754-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	76		30-150	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/18/18 22:06
 Analyst: JW

Extraction Method: EPA 3510C
 Extraction Date: 05/18/18 06:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1117205-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**Method Blank Analysis**
Batch Quality ControlAnalytical Method: 1,8081B
Analytical Date: 05/18/18 22:06
Analyst: JWExtraction Method: EPA 3510C
Extraction Date: 05/18/18 06:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1117205-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	92		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1116754-2 WG1116754-3									
Delta-BHC	102		112		30-150	9		30	A
Lindane	90		98		30-150	9		30	A
Alpha-BHC	96		105		30-150	9		30	A
Beta-BHC	88		94		30-150	7		30	A
Heptachlor	97		106		30-150	9		30	A
Aldrin	96		106		30-150	10		30	A
Heptachlor epoxide	92		101		30-150	9		30	A
Endrin	104		118		30-150	13		30	A
Endrin aldehyde	90		101		30-150	12		30	A
Endrin ketone	98		108		30-150	10		30	A
Dieldrin	106		119		30-150	12		30	A
4,4'-DDE	100		111		30-150	10		30	A
4,4'-DDD	102		113		30-150	10		30	A
4,4'-DDT	102		114		30-150	11		30	A
Endosulfan I	93		103		30-150	10		30	A
Endosulfan II	95		106		30-150	11		30	A
Endosulfan sulfate	100		115		30-150	14		30	A
Methoxychlor	92		99		30-150	7		30	A
cis-Chlordane	88		97		30-150	10		30	A
trans-Chlordane	72		87		30-150	19		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG1116754-2 WG1116754-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		87		30-150	B
Decachlorobiphenyl	92		102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		82		30-150	A
Decachlorobiphenyl	81		94		30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1117205-2 WG1117205-3									
Delta-BHC	89		101		30-150	13		20	A
Lindane	84		95		30-150	12		20	A
Alpha-BHC	83		94		30-150	13		20	A
Beta-BHC	90		105		30-150	15		20	A
Heptachlor	82		92		30-150	11		20	A
Aldrin	85		93		30-150	9		20	A
Heptachlor epoxide	101		109		30-150	8		20	A
Endrin	93		103		30-150	10		20	A
Endrin aldehyde	86		94		30-150	9		20	A
Endrin ketone	101		109		30-150	8		20	A
Dieldrin	94		104		30-150	10		20	A
4,4'-DDE	89		96		30-150	8		20	A
4,4'-DDD	90		100		30-150	10		20	A
4,4'-DDT	91		96		30-150	5		20	A
Endosulfan I	93		99		30-150	6		20	A
Endosulfan II	91		100		30-150	9		20	A
Endosulfan sulfate	83		98		30-150	16		20	A
Methoxychlor	90		96		30-150	6		20	A
cis-Chlordane	83		92		30-150	10		20	A
trans-Chlordane	72		85		30-150	17		20	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1117205-2 WG1117205-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		91		30-150	A
Decachlorobiphenyl	108		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		62		30-150	B
Decachlorobiphenyl	83		53		30-150	B

METALS

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-01

Date Collected: 05/16/18 11:00

Client ID: SB-03_0-2

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	8.79	2.37	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.40	0.334	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Arsenic, Total	2.70		mg/kg	0.879	0.183	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Barium, Total	65.8		mg/kg	0.879	0.153	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Beryllium, Total	0.299	J	mg/kg	0.440	0.029	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.879	0.086	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Calcium, Total	4980		mg/kg	8.79	3.08	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Chromium, Total	16.8		mg/kg	0.879	0.084	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Cobalt, Total	9.22		mg/kg	1.76	0.146	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Copper, Total	21.0		mg/kg	0.879	0.227	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Iron, Total	16000		mg/kg	4.40	0.794	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Lead, Total	92.6		mg/kg	4.40	0.236	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Magnesium, Total	3460		mg/kg	8.79	1.35	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Manganese, Total	253		mg/kg	0.879	0.140	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Mercury, Total	0.194		mg/kg	0.072	0.015	1	05/18/18 07:30	05/18/18 18:38	EPA 7471B	1,7471B	EA
Nickel, Total	16.6		mg/kg	2.20	0.213	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Potassium, Total	2500		mg/kg	220	12.7	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Selenium, Total	0.633	J	mg/kg	1.76	0.227	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.879	0.249	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Sodium, Total	191		mg/kg	176	2.77	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.76	0.277	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Vanadium, Total	21.4		mg/kg	0.879	0.178	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
Zinc, Total	50.4		mg/kg	4.40	0.258	2	05/22/18 11:35	05/22/18 14:44	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17		mg/kg	0.91	0.91	1		05/22/18 14:44	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-02

Date Collected: 05/16/18 11:15

Client ID: SB-03_5-5.5

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9810		mg/kg	8.71	2.35	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.35	0.331	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Arsenic, Total	2.87		mg/kg	0.871	0.181	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Barium, Total	56.8		mg/kg	0.871	0.152	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Beryllium, Total	0.279	J	mg/kg	0.435	0.029	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.871	0.085	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Calcium, Total	5210		mg/kg	8.71	3.05	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Chromium, Total	14.8		mg/kg	0.871	0.084	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Cobalt, Total	8.55		mg/kg	1.74	0.144	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Copper, Total	21.9		mg/kg	0.871	0.225	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Iron, Total	15400		mg/kg	4.35	0.786	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Lead, Total	59.4		mg/kg	4.35	0.233	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Magnesium, Total	3010		mg/kg	8.71	1.34	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Manganese, Total	279		mg/kg	0.871	0.138	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Mercury, Total	0.372		mg/kg	0.072	0.015	1	05/18/18 07:30	05/18/18 18:40	EPA 7471B	1,7471B	EA
Nickel, Total	14.7		mg/kg	2.18	0.211	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Potassium, Total	2180		mg/kg	218	12.5	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Selenium, Total	0.827	J	mg/kg	1.74	0.225	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.871	0.246	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Sodium, Total	185		mg/kg	174	2.74	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.74	0.274	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Vanadium, Total	20.6		mg/kg	0.871	0.177	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
Zinc, Total	46.7		mg/kg	4.35	0.255	2	05/22/18 11:35	05/22/18 15:04	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	0.92	0.92	1		05/22/18 15:04	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-03

Date Collected: 05/16/18 10:00

Client ID: SB-04_0-2

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13700		mg/kg	9.16	2.47	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.58	0.348	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Arsenic, Total	5.82		mg/kg	0.916	0.190	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Barium, Total	94.5		mg/kg	0.916	0.159	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Beryllium, Total	0.430	J	mg/kg	0.458	0.030	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.916	0.090	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Calcium, Total	2340		mg/kg	9.16	3.20	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Chromium, Total	21.3		mg/kg	0.916	0.088	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Cobalt, Total	9.80		mg/kg	1.83	0.152	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Copper, Total	23.1		mg/kg	0.916	0.236	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Iron, Total	18700		mg/kg	4.58	0.827	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Lead, Total	24.9		mg/kg	4.58	0.245	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Magnesium, Total	3960		mg/kg	9.16	1.41	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Manganese, Total	587		mg/kg	0.916	0.146	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Mercury, Total	0.137		mg/kg	0.076	0.016	1	05/18/18 07:30	05/18/18 18:42	EPA 7471B	1,7471B	EA
Nickel, Total	22.9		mg/kg	2.29	0.222	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Potassium, Total	2500		mg/kg	229	13.2	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Selenium, Total	0.586	J	mg/kg	1.83	0.236	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.916	0.259	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Sodium, Total	327		mg/kg	183	2.88	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.83	0.288	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Vanadium, Total	28.2		mg/kg	0.916	0.186	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC
Zinc, Total	45.9		mg/kg	4.58	0.268	2	05/22/18 11:35	05/22/18 15:08	EPA 3050B	1,6010C	LC

General Chemistry - Mansfield Lab

Chromium, Trivalent	21		mg/kg	0.95	0.95	1		05/22/18 15:08	NA	107,-	
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Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-04

Date Collected: 05/16/18 10:25

Client ID: SB-07_0-2

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13700		mg/kg	8.87	2.39	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.43	0.337	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Arsenic, Total	4.33		mg/kg	0.887	0.184	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Barium, Total	50.8		mg/kg	0.887	0.154	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Beryllium, Total	0.372	J	mg/kg	0.443	0.029	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.887	0.087	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Calcium, Total	2800		mg/kg	8.87	3.10	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Chromium, Total	19.3		mg/kg	0.887	0.085	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Cobalt, Total	11.2		mg/kg	1.77	0.147	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Copper, Total	20.7		mg/kg	0.887	0.229	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Iron, Total	19800		mg/kg	4.43	0.801	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Lead, Total	55.1		mg/kg	4.43	0.238	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Magnesium, Total	3600		mg/kg	8.87	1.36	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Manganese, Total	313		mg/kg	0.887	0.141	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Mercury, Total	0.090		mg/kg	0.073	0.015	1	05/18/18 07:30	05/18/18 18:44	EPA 7471B	1,7471B	EA
Nickel, Total	16.6		mg/kg	2.22	0.215	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Potassium, Total	1710		mg/kg	222	12.8	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Selenium, Total	0.621	J	mg/kg	1.77	0.229	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.887	0.251	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Sodium, Total	128	J	mg/kg	177	2.79	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Vanadium, Total	25.9		mg/kg	0.887	0.180	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
Zinc, Total	50.0		mg/kg	4.43	0.260	2	05/22/18 11:35	05/22/18 15:12	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	19		mg/kg	0.92	0.92	1		05/22/18 15:12	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-05

Date Collected: 05/16/18 10:45

Client ID: SB-08_0-2

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12800		mg/kg	8.57	2.31	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.28	0.326	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Arsenic, Total	2.61		mg/kg	0.857	0.178	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Barium, Total	73.5		mg/kg	0.857	0.149	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Beryllium, Total	0.326	J	mg/kg	0.428	0.028	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.857	0.084	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Calcium, Total	17200		mg/kg	8.57	3.00	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Chromium, Total	23.4		mg/kg	0.857	0.082	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Cobalt, Total	10.2		mg/kg	1.71	0.142	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Copper, Total	26.7		mg/kg	0.857	0.221	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Iron, Total	18400		mg/kg	4.28	0.774	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Lead, Total	31.9		mg/kg	4.28	0.230	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Magnesium, Total	4340		mg/kg	8.57	1.32	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Manganese, Total	295		mg/kg	0.857	0.136	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Mercury, Total	0.087		mg/kg	0.071	0.015	1	05/18/18 07:30	05/18/18 18:45	EPA 7471B	1,7471B	EA
Nickel, Total	19.9		mg/kg	2.14	0.207	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Potassium, Total	3380		mg/kg	214	12.3	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Selenium, Total	0.720	J	mg/kg	1.71	0.221	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.857	0.242	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Sodium, Total	205		mg/kg	171	2.70	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Vanadium, Total	37.2		mg/kg	0.857	0.174	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
Zinc, Total	44.8		mg/kg	4.28	0.251	2	05/22/18 11:35	05/22/18 15:25	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23		mg/kg	0.91	0.91	1		05/22/18 15:25	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**SAMPLE RESULTS**

Lab ID: L1817937-06

Date Collected: 05/16/18 10:35

Client ID: DUP01_051618

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13700		mg/kg	9.18	2.48	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.59	0.349	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Arsenic, Total	4.34		mg/kg	0.918	0.191	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Barium, Total	47.9		mg/kg	0.918	0.160	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Beryllium, Total	0.340	J	mg/kg	0.459	0.030	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.918	0.090	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Calcium, Total	2670		mg/kg	9.18	3.21	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Chromium, Total	18.2		mg/kg	0.918	0.088	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Cobalt, Total	10.5		mg/kg	1.84	0.152	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Copper, Total	20.1		mg/kg	0.918	0.237	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Iron, Total	20900		mg/kg	4.59	0.829	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Lead, Total	79.4		mg/kg	4.59	0.246	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Magnesium, Total	3440		mg/kg	9.18	1.41	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Manganese, Total	287		mg/kg	0.918	0.146	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Mercury, Total	0.253		mg/kg	0.073	0.015	1	05/18/18 07:30	05/18/18 18:47	EPA 7471B	1,7471B	EA
Nickel, Total	16.4		mg/kg	2.30	0.222	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Potassium, Total	1520		mg/kg	230	13.2	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Selenium, Total	0.597	J	mg/kg	1.84	0.237	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.918	0.260	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Sodium, Total	116	J	mg/kg	184	2.89	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.84	0.289	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Vanadium, Total	26.7		mg/kg	0.918	0.186	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC
Zinc, Total	51.0		mg/kg	4.59	0.269	2	05/22/18 11:35	05/22/18 15:29	EPA 3050B	1,6010C	LC

General Chemistry - Mansfield Lab

Chromium, Trivalent	18		mg/kg	0.93	0.93	1		05/22/18 15:29	NA	107,-	
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Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07

Date Collected: 05/16/18 15:00

Client ID: FIELD BLANK

Date Received: 05/16/18

Sample Location: MANHATTAN, NY

Field Prep: None

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Calcium, Total	ND		mg/l	0.100	0.035	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Copper, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Iron, Total	ND		mg/l	0.050	0.009	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/18 11:29	05/17/18 18:02	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.025	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.007	0.003	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Sodium, Total	ND		mg/l	2.00	0.120	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB
Zinc, Total	ND		mg/l	0.050	0.002	1	05/19/18 07:40	05/22/18 00:15	EPA 3005A	1,6010C	AB

General Chemistry - Mansfield Lab

Chromium, Trivalent	ND		mg/l	0.010	0.010	1		05/22/18 00:15	NA	107,-	
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Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

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): 07 Batch: WG1116782-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/17/18 11:29	05/17/18 17:45	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1117044-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/18/18 07:30	05/18/18 17:55	1,7471B	EA

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): 07 Batch: WG1117498-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Calcium, Total	ND		mg/l	0.100	0.035	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Copper, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Iron, Total	ND		mg/l	0.050	0.009	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Nickel, Total	ND		mg/l	0.025	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB



Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Selenium, Total	ND	mg/l	0.010	0.004	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Silver, Total	ND	mg/l	0.007	0.003	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Sodium, Total	ND	mg/l	2.00	0.120	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Thallium, Total	ND	mg/l	0.020	0.003	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Vanadium, Total	ND	mg/l	0.010	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB
Zinc, Total	ND	mg/l	0.050	0.002	1	05/19/18 07:40	05/22/18 01:50	1,6010C	AB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1117547-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Sodium, Total	6.86	J	mg/kg	80.0	1.26	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/22/18 11:35	05/22/18 14:35	1,6010C	LC

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07 Batch: WG1116782-2								
Mercury, Total	96		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1117044-2 SRM Lot Number: D098-540								
Mercury, Total	117		-		50-149	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07 Batch: WG1117498-2					
Aluminum, Total	105	-	80-120	-	
Antimony, Total	97	-	80-120	-	
Arsenic, Total	114	-	80-120	-	
Barium, Total	101	-	80-120	-	
Beryllium, Total	97	-	80-120	-	
Cadmium, Total	110	-	80-120	-	
Calcium, Total	106	-	80-120	-	
Chromium, Total	103	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	98	-	80-120	-	
Iron, Total	101	-	80-120	-	
Lead, Total	110	-	80-120	-	
Magnesium, Total	103	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	117	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	109	-	80-120	-	
Vanadium, Total	103	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1817937**Report Date:** 05/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07 Batch: WG1117498-2					
Zinc, Total	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1117547-2 SRM Lot Number: D098-540					
Aluminum, Total	76	-	47-153	-	
Antimony, Total	170	-	6-194	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	98	-	82-118	-	
Beryllium, Total	103	-	83-117	-	
Cadmium, Total	92	-	82-117	-	
Calcium, Total	93	-	81-118	-	
Chromium, Total	101	-	83-119	-	
Cobalt, Total	94	-	84-116	-	
Copper, Total	102	-	84-116	-	
Iron, Total	106	-	60-140	-	
Lead, Total	100	-	82-117	-	
Magnesium, Total	84	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	93	-	82-117	-	
Potassium, Total	93	-	69-131	-	
Selenium, Total	103	-	78-121	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	102	-	74-126	-	
Thallium, Total	96	-	80-119	-	
Vanadium, Total	101	-	79-121	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1117547-2 SRM Lot Number: D098-540					
Zinc, Total	97	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

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): 07 QC Batch ID: WG1116782-3 QC Sample: L1817508-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00516	103		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1117044-3 QC Sample: L1817807-01 Client ID: MS Sample												
Mercury, Total	ND	0.148	0.191	129	Q	-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

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): 07 QC Batch ID: WG1117498-3 QC Sample: L1817941-01 Client ID: MS Sample									
Aluminum, Total	0.258	2	2.53	114	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.514	103	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.142	118	-	-	75-125	-	20
Barium, Total	0.028	2	2.13	105	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.051	102	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.058	114	-	-	75-125	-	20
Calcium, Total	15.1	10	25.5	104	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.206	103	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.525	105	-	-	75-125	-	20
Copper, Total	ND	0.25	0.251	100	-	-	75-125	-	20
Iron, Total	0.582	1	1.62	104	-	-	75-125	-	20
Lead, Total	ND	0.51	0.577	113	-	-	75-125	-	20
Magnesium, Total	3.34	10	13.8	105	-	-	75-125	-	20
Manganese, Total	1.07	0.5	1.58	102	-	-	75-125	-	20
Nickel, Total	0.003J	0.5	0.524	105	-	-	75-125	-	20
Potassium, Total	1.18J	10	11.8	118	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.149	124	-	-	75-125	-	20
Silver, Total	ND	0.05	0.052	103	-	-	75-125	-	20
Sodium, Total	20.5	10	32.3	118	-	-	75-125	-	20
Thallium, Total	0.004J	0.12	0.135	112	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.523	105	-	-	75-125	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Lab Number: L1817937

Project Number: 170432001

Report Date: 05/23/18

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): 07 QC Batch ID: WG1117498-3 QC Sample: L1817941-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.566	113	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

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): 01-06 QC Batch ID: WG1117547-3 QC Sample: L1817937-01 Client ID: SB-03_0-2									
Aluminum, Total	10600	172	9770	0	Q	-	75-125	-	20
Antimony, Total	ND	43	40.6	94		-	75-125	-	20
Arsenic, Total	2.70	10.3	13.5	105		-	75-125	-	20
Barium, Total	65.8	172	215	87		-	75-125	-	20
Beryllium, Total	0.299J	4.3	4.34	101		-	75-125	-	20
Cadmium, Total	ND	4.39	3.66	83		-	75-125	-	20
Calcium, Total	4980	860	5410	50	Q	-	75-125	-	20
Chromium, Total	16.8	17.2	30.0	77		-	75-125	-	20
Cobalt, Total	9.22	43	47.4	89		-	75-125	-	20
Copper, Total	21.0	21.5	42.8	101		-	75-125	-	20
Iron, Total	16000	86	15200	0	Q	-	75-125	-	20
Lead, Total	92.6	43.9	139	106		-	75-125	-	20
Magnesium, Total	3460	860	3510	6	Q	-	75-125	-	20
Manganese, Total	253.	43	294	95		-	75-125	-	20
Nickel, Total	16.6	43	52.9	84		-	75-125	-	20
Potassium, Total	2500	860	2680	21	Q	-	75-125	-	20
Selenium, Total	0.633J	10.3	11.1	108		-	75-125	-	20
Silver, Total	ND	25.8	25.2	98		-	75-125	-	20
Sodium, Total	191.	860	1040	99		-	75-125	-	20
Thallium, Total	ND	10.3	8.25	80		-	75-125	-	20
Vanadium, Total	21.4	43	58.5	86		-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

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): 01-06 QC Batch ID: WG1117547-3 QC Sample: L1817937-01 Client ID: SB-03_0-2									
Zinc, Total	50.4	43	86.4	84	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1116782-4 QC Sample: L1817508-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1117044-4 QC Sample: L1817807-01 Client ID: DUP Sample						
Mercury, Total	ND	0.016J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1117498-4 QC Sample: L1817941-01 Client ID: DUP Sample						
Arsenic, Total	ND	ND	mg/l	NC		20
Iron, Total	0.582	0.543	mg/l	7		20
Manganese, Total	1.07	1.02	mg/l	5		20
Sodium, Total	20.5	19.8	mg/l	3		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1117547-4 QC Sample: L1817937-01 Client ID: SB-03_0-2					
Aluminum, Total	10600	10500	mg/kg	1	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	2.70	2.93	mg/kg	8	20
Barium, Total	65.8	64.1	mg/kg	3	20
Beryllium, Total	0.299J	0.289J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	4980	4510	mg/kg	10	20
Chromium, Total	16.8	17.2	mg/kg	2	20
Cobalt, Total	9.22	9.42	mg/kg	2	20
Copper, Total	21.0	22.5	mg/kg	7	20
Iron, Total	16000	16300	mg/kg	2	20
Lead, Total	92.6	106	mg/kg	13	20
Magnesium, Total	3460	3400	mg/kg	2	20
Manganese, Total	253.	316	mg/kg	22	Q 20
Nickel, Total	16.6	17.3	mg/kg	4	20
Potassium, Total	2500	2310	mg/kg	8	20
Selenium, Total	0.633J	0.903J	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	191.	180	mg/kg	6	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1117547-4 QC Sample: L1817937-01 Client ID: SB-03_0-2					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	21.4	22.2	mg/kg	4	20
Zinc, Total	50.4	53.3	mg/kg	6	20

INORGANICS & MISCELLANEOUS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-01
Client ID: SB-03_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/18 13:10	05/17/18 15:59	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-02
Client ID: SB-03_5-5.5
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 11:15
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.8		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/17/18 13:10	05/17/18 16:00	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.922	0.184	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-03
Client ID: SB-04_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:00
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/18 13:10	05/17/18 16:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.952	0.190	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-04
Client ID: SB-07_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:25
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/18 13:10	05/17/18 16:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.924	0.185	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-05
Client ID: SB-08_0-2
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:45
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/18 13:10	05/17/18 16:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-06
Client ID: DUP01_051618
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 10:35
Date Received: 05/16/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	05/18/18 12:34	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/17/18 13:10	05/17/18 16:04	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.934	0.187	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

SAMPLE RESULTS

Lab ID: L1817937-07
Client ID: FIELD BLANK
Sample Location: MANHATTAN, NY

Date Collected: 05/16/18 15:00
Date Received: 05/16/18
Field Prep: None

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/17/18 10:30	05/17/18 13:26	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/17/18 04:03	05/17/18 05:08	1,7196A	MA



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07 Batch: WG1116602-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/17/18 04:03	05/17/18 05:06	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1116653-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/17/18 07:05	05/17/18 23:15	1,7196A	JD
General Chemistry - Westborough Lab for sample(s): 07 Batch: WG1116738-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/17/18 10:30	05/17/18 13:12	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1116794-1										
Cyanide, Total	ND		mg/kg	0.88	0.19	1	05/17/18 13:10	05/17/18 15:44	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1817937
Report Date: 05/23/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07 Batch: WG1116602-2								
Chromium, Hexavalent	90		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1116653-2								
Chromium, Hexavalent	87		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 07 Batch: WG1116738-2 WG1116738-3								
Cyanide, Total	89		88		85-115	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG1116794-2 WG1116794-3								
Cyanide, Total	73	Q	77	Q	80-120	2		35

Matrix Spike Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1116602-4 QC Sample: L1817937-07 Client ID: FIELD BLANK												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1116653-4 QC Sample: L1817937-04 Client ID: SB-07_0-2												
Chromium, Hexavalent	ND	1070	1110	103		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1116738-4 WG1116738-5 QC Sample: L1817909-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.177	88		0.181	90		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1116794-4 WG1116794-5 QC Sample: L1817648-02 Client ID: MS Sample												
Cyanide, Total	0.31J	13	13	96		12	92		75-125	8		35

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1817937

Report Date: 05/23/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1116602-3 QC Sample: L1817937-07 Client ID: FIELD BLANK						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1116653-6 QC Sample: L1817937-04 Client ID: SB-07_0-2						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1117262-1 QC Sample: L1817937-01 Client ID: SB-03_0-2						
Solids, Total	87.6	88.9	%	1		20

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1817937**Project Number:** 170432001**Report Date:** 05/23/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817937-01A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-01B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-01C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-01D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-01E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-01F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-01G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-01X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-01Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-01Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-02A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-02B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-02C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-02D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-02F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817937-02G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-02X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-02Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-02Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-03A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-03B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-03C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-03D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-03F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-03G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-03X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-03Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-03Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-04A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-04B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-04C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-04D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-04F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-04G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-04X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817937-04Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-04Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-05A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-05B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-05C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-05D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-05F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-05G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-05X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-05Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-05Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-06A	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-06B	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-06C	5 gram Encore Sampler	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-06D	Plastic 2oz unpreserved for TS	B	NA		2.6	Y	Absent		TS(7)
L1817937-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1817937-06F	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-06G	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1817937-06X	Vial MeOH preserved split	B	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1817937-06Y	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)
L1817937-06Z	Vial Water preserved split	B	NA		2.6	Y	Absent	17-MAY-18 10:15	NYTCL-8260HLW(14)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1817937-07A	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L1817937-07B	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L1817937-07C	Vial HCl preserved	A	NA		3.3	Y	Absent		NYTCL-8260(14)
L1817937-07D	Plastic 250ml NaOH preserved	A	>12	>12	3.3	Y	Absent		TCN-9010(14)
L1817937-07E	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		HOLD-METAL-DISSOLVED(180)
L1817937-07F	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1817937-07G	Plastic 500ml unpreserved	A	7	7	3.3	Y	Absent		HEXCR-7196(1)
L1817937-07H	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8081(7)
L1817937-07I	Amber 120ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8081(7)
L1817937-07J	Amber 1000ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1817937-07K	Amber 1000ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1817937-07L	Amber 1000ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-1200ML(7)
L1817937-07M	Amber 1000ml unpreserved	A	7	7	3.3	Y	Absent		NYTCL-8082-1200ML(7)

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GLOSSARY

Acronyms

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).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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Data Qualifiers

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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



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REFERENCES

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

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: m/p-xylene, o-xylene

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

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

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>5/17/18</u>		ALPHA Job # <u>L1817937</u>			
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>266-270 W 96th Street</u> Project Location: <u>Manhattan, NY</u> Project # <u>170432001</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #	
Client Information Client: <u>Langan Engineering</u> Address: <u>360 W 31st Street</u> <u>Manhattan, NY</u> Phone: <u>212-479-5400</u> Fax: Email: <u>bpachenarr@langan.com</u>		Project Manager: <u>Brian Cachenarr</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☒ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:					
These samples have been previously analyzed by Alpha ☐		Other project specific requirements/comments:		ANALYSIS <u>VOCs 6260</u> <u>SVOCs 6270</u> <u>Pesticides 8061/8062</u> <u>Trivalent Hex Chromium</u> <u>Metals 6010</u> <u>Cyanide</u>		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		T o t a l B o t t l e s			
Please specify Metals or TAL.		Sample Specific Comments									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		(Grid for Analysis Results)	
17937 - 01		SB-03-0-2		5/16/18 11:00		Soil		KT		☒ ☒ ☒ ☒ ☒ ☒	
-02		SB-03-5-5.5		11:15		↓		↓		☒ ☒ ☒ ☒ ☒ ☒	
-03		SB-04-0-2		10:00		↓		↓		☒ ☒ ☒ ☒ ☒ ☒	
-04		SB-07-0-2		10:25		↓		↓		☒ ☒ ☒ ☒ ☒ ☒	
-05		SB-08-0-2		10:45		↓		↓		☒ ☒ ☒ ☒ ☒ ☒	
-06		DUP 11-051618		10:35		↓		↓		☒ ☒ ☒ ☒ ☒ ☒	
-07		Field blank		5/16/18 15:00		Water		↓		☒ ☒ ☒ ☒ ☒ ☒	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By:		Date/Time		Received By:		Date/Time					
Kyle Twardowski		5/16/18 15:37		Daniel Santos		5/16/18 15:37					
Daniel Santos AAC		5/16/18 2:59		Munish Datta		5/17/18 00:00					



ANALYTICAL REPORT

Lab Number:	L1819490
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Del Col
Phone:	(212) 479-5486
Project Name:	266-270 W. 96TH STREET
Project Number:	170432001
Report Date:	06/04/18

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

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

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



Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1819490-01	SB01_0.5-1.5	SOIL	268 W. 96TH STREET	05/25/18 11:00	05/25/18
L1819490-02	SB01_6-7	SOIL	268 W. 96TH STREET	05/25/18 11:05	05/25/18
L1819490-03	SB02_0.5-1.5	SOIL	268 W. 96TH STREET	05/25/18 12:50	05/25/18
L1819490-04	SB02_4.5-5.5	SOIL	268 W. 96TH STREET	05/25/18 12:55	05/25/18
L1819490-05	SB02_11-12	SOIL	268 W. 96TH STREET	05/25/18 13:10	05/25/18
L1819490-06	SB05_0.5-1.5	SOIL	268 W. 96TH STREET	05/25/18 11:35	05/25/18
L1819490-07	SB05_5-6	SOIL	268 W. 96TH STREET	05/25/18 11:30	05/25/18
L1819490-08	TRIP BLANK_052518	WATER	268 W. 96TH STREET	05/25/18 00:00	05/25/18

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

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.

Pesticides

L1819490-04: The sample has elevated detection limits due to the dilution required by the sample matrix.

L1819490-04: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Total Metals

L1819490-01 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.

Cyanide, Total

The WG1120111-2/-3 LCS/LCSD recoveries (48%/71%), associated with L1819490-01 through -07, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD (44%) is above the acceptance criteria.

Hexavalent Chromium

The WG1120458-2 LCS recovery (77%), associated with L1819490-01 through -07, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:



Kelly Stenstrom

Title: Technical Director/Representative

Date: 06/04/18

ORGANICS

VOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/18 04:26
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	ND		ug/kg	1.4	0.36	1
Carbon tetrachloride	ND		ug/kg	0.97	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.97	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	1.4		ug/kg	0.97	0.29	1
Chlorobenzene	ND		ug/kg	0.97	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.34	1
Bromodichloromethane	ND		ug/kg	0.97	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.97	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.29	1
Benzene	ND		ug/kg	0.97	0.19	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	0.39	J	ug/kg	0.97	0.16	1
Chloromethane	ND		ug/kg	4.8	0.42	1
Bromomethane	ND		ug/kg	1.9	0.33	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.97	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	1.2	J	ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.33	1
Xylenes, Total	1.2	J	ug/kg	1.9	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.23	1
Dibromomethane	ND		ug/kg	9.7	0.23	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.48	1
Acetone	13		ug/kg	9.7	2.2	1
Carbon disulfide	ND		ug/kg	9.7	1.1	1
2-Butanone	ND		ug/kg	9.7	0.67	1
Vinyl acetate	ND		ug/kg	9.7	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.17	1
2-Hexanone	ND		ug/kg	9.7	0.65	1
Bromochloromethane	ND		ug/kg	4.8	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	0.31	1
Bromobenzene	ND		ug/kg	4.8	0.21	1
n-Butylbenzene	ND		ug/kg	0.97	0.22	1
sec-Butylbenzene	ND		ug/kg	0.97	0.21	1
tert-Butylbenzene	ND		ug/kg	4.8	0.24	1
o-Chlorotoluene	ND		ug/kg	4.8	0.21	1
p-Chlorotoluene	ND		ug/kg	4.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.34	1
Isopropylbenzene	ND		ug/kg	0.97	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.20	1
Naphthalene	ND		ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.7	0.50	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/31/18 23:01
Analyst: MV
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	31	5.1	1
1,1-Dichloroethane	ND		ug/kg	4.7	0.84	1
Chloroform	ND		ug/kg	4.7	1.2	1
Carbon tetrachloride	ND		ug/kg	3.1	1.1	1
1,2-Dichloropropane	ND		ug/kg	11	0.71	1
Dibromochloromethane	ND		ug/kg	3.1	0.55	1
1,1,2-Trichloroethane	ND		ug/kg	4.7	0.98	1
Tetrachloroethene	ND		ug/kg	3.1	0.94	1
Chlorobenzene	ND		ug/kg	3.1	1.1	1
Trichlorofluoromethane	ND		ug/kg	16	1.3	1
1,2-Dichloroethane	ND		ug/kg	3.1	0.77	1
1,1,1-Trichloroethane	ND		ug/kg	3.1	1.1	1
Bromodichloromethane	ND		ug/kg	3.1	0.96	1
trans-1,3-Dichloropropene	ND		ug/kg	3.1	0.65	1
cis-1,3-Dichloropropene	ND		ug/kg	3.1	0.72	1
1,3-Dichloropropene, Total	ND		ug/kg	3.1	0.65	1
1,1-Dichloropropene	ND		ug/kg	16	1.0	1
Bromoform	ND		ug/kg	12	0.74	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	3.1	0.93	1
Benzene	ND		ug/kg	3.1	0.60	1
Toluene	ND		ug/kg	4.7	0.61	1
Ethylbenzene	ND		ug/kg	3.1	0.53	1
Chloromethane	ND		ug/kg	16	1.4	1
Bromomethane	ND		ug/kg	6.2	1.0	1
Vinyl chloride	ND		ug/kg	6.2	0.98	1
Chloroethane	ND		ug/kg	6.2	0.98	1
1,1-Dichloroethene	ND		ug/kg	3.1	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	4.7	0.75	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	3.1	0.94	1
1,2-Dichlorobenzene	ND		ug/kg	16	0.57	1
1,3-Dichlorobenzene	ND		ug/kg	16	0.68	1
1,4-Dichlorobenzene	ND		ug/kg	16	0.57	1
Methyl tert butyl ether	ND		ug/kg	6.2	0.48	1
p/m-Xylene	ND		ug/kg	6.2	1.1	1
o-Xylene	ND		ug/kg	6.2	1.0	1
Xylenes, Total	ND		ug/kg	6.2	1.0	1
cis-1,2-Dichloroethene	ND		ug/kg	3.1	1.1	1
1,2-Dichloroethene, Total	ND		ug/kg	3.1	0.75	1
Dibromomethane	ND		ug/kg	31	0.74	1
Styrene	ND		ug/kg	6.2	1.2	1
Dichlorodifluoromethane	ND		ug/kg	31	1.6	1
Acetone	89		ug/kg	31	7.1	1
Carbon disulfide	ND		ug/kg	31	3.4	1
2-Butanone	12	J	ug/kg	31	2.2	1
Vinyl acetate	ND		ug/kg	31	0.48	1
4-Methyl-2-pentanone	ND		ug/kg	31	0.76	1
1,2,3-Trichloropropane	ND		ug/kg	31	0.55	1
2-Hexanone	ND		ug/kg	31	2.1	1
Bromochloromethane	ND		ug/kg	16	1.1	1
2,2-Dichloropropane	ND		ug/kg	16	1.4	1
1,2-Dibromoethane	ND		ug/kg	12	0.62	1
1,3-Dichloropropane	ND		ug/kg	16	0.57	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	3.1	0.99	1
Bromobenzene	ND		ug/kg	16	0.68	1
n-Butylbenzene	ND		ug/kg	3.1	0.71	1
sec-Butylbenzene	ND		ug/kg	3.1	0.68	1
tert-Butylbenzene	ND		ug/kg	16	0.77	1
o-Chlorotoluene	ND		ug/kg	16	0.69	1
p-Chlorotoluene	ND		ug/kg	16	0.57	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	16	1.2	1
Hexachlorobutadiene	ND		ug/kg	16	1.1	1
Isopropylbenzene	ND		ug/kg	3.1	0.60	1
p-Isopropyltoluene	ND		ug/kg	3.1	0.63	1
Naphthalene	1.4	J	ug/kg	16	0.43	1
Acrylonitrile	ND		ug/kg	31	1.6	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.1	0.67	1
1,2,3-Trichlorobenzene	ND		ug/kg	16	0.78	1
1,2,4-Trichlorobenzene	ND		ug/kg	16	0.67	1
1,3,5-Trimethylbenzene	ND		ug/kg	16	0.50	1
1,2,4-Trimethylbenzene	ND		ug/kg	16	0.58	1
1,4-Dioxane	ND		ug/kg	120	45.	1
p-Diethylbenzene	ND		ug/kg	12	12.	1
p-Ethyltoluene	ND		ug/kg	12	0.73	1
1,2,4,5-Tetramethylbenzene	0.87	J	ug/kg	12	0.49	1
Ethyl ether	ND		ug/kg	16	0.81	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	16	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/31/18 23:28
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.49	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	0.54	J	ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	0.54	J	ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	4.5	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.78	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	1.6	J	ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/18 05:21
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1000	170	1
1,1-Dichloroethane	ND		ug/kg	150	28.	1
Chloroform	ND		ug/kg	150	38.	1
Carbon tetrachloride	ND		ug/kg	100	35.	1
1,2-Dichloropropane	ND		ug/kg	360	23.	1
Dibromochloromethane	ND		ug/kg	100	18.	1
1,1,2-Trichloroethane	ND		ug/kg	150	32.	1
Tetrachloroethene	180		ug/kg	100	31.	1
Chlorobenzene	ND		ug/kg	100	36.	1
Trichlorofluoromethane	ND		ug/kg	510	43.	1
1,2-Dichloroethane	ND		ug/kg	100	25.	1
1,1,1-Trichloroethane	ND		ug/kg	100	36.	1
Bromodichloromethane	ND		ug/kg	100	32.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	100	24.	1
1,3-Dichloropropene, Total	ND		ug/kg	100	21.	1
1,1-Dichloropropene	ND		ug/kg	510	34.	1
Bromoform	ND		ug/kg	410	24.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	100	30.	1
Benzene	22	J	ug/kg	100	20.	1
Toluene	30	J	ug/kg	150	20.	1
Ethylbenzene	ND		ug/kg	100	17.	1
Chloromethane	ND		ug/kg	510	45.	1
Bromomethane	ND		ug/kg	200	35.	1
Vinyl chloride	ND		ug/kg	200	32.	1
Chloroethane	ND		ug/kg	200	32.	1
1,1-Dichloroethene	ND		ug/kg	100	38.	1
trans-1,2-Dichloroethene	ND		ug/kg	150	25.	1

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS****Lab ID:** L1819490-04**Date Collected:** 05/25/18 12:55**Client ID:** SB02_4.5-5.5**Date Received:** 05/25/18**Sample Location:** 268 W. 96TH STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	100	31.	1
1,2-Dichlorobenzene	ND		ug/kg	510	19.	1
1,3-Dichlorobenzene	ND		ug/kg	510	22.	1
1,4-Dichlorobenzene	ND		ug/kg	510	19.	1
Methyl tert butyl ether	ND		ug/kg	200	16.	1
p/m-Xylene	ND		ug/kg	200	36.	1
o-Xylene	ND		ug/kg	200	35.	1
Xylenes, Total	ND		ug/kg	200	35.	1
cis-1,2-Dichloroethene	ND		ug/kg	100	35.	1
1,2-Dichloroethene, Total	ND		ug/kg	100	25.	1
Dibromomethane	ND		ug/kg	1000	24.	1
Styrene	ND		ug/kg	200	41.	1
Dichlorodifluoromethane	ND		ug/kg	1000	51.	1
Acetone	310	J	ug/kg	1000	240	1
Carbon disulfide	ND		ug/kg	1000	110	1
2-Butanone	ND		ug/kg	1000	71.	1
Vinyl acetate	ND		ug/kg	1000	16.	1
4-Methyl-2-pentanone	ND		ug/kg	1000	25.	1
1,2,3-Trichloropropane	ND		ug/kg	1000	18.	1
2-Hexanone	ND		ug/kg	1000	68.	1
Bromochloromethane	ND		ug/kg	510	37.	1
2,2-Dichloropropane	ND		ug/kg	510	46.	1
1,2-Dibromoethane	ND		ug/kg	410	20.	1
1,3-Dichloropropane	ND		ug/kg	510	19.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	100	33.	1
Bromobenzene	ND		ug/kg	510	22.	1
n-Butylbenzene	ND		ug/kg	100	23.	1
sec-Butylbenzene	ND		ug/kg	100	22.	1
tert-Butylbenzene	ND		ug/kg	510	25.	1
o-Chlorotoluene	ND		ug/kg	510	23.	1
p-Chlorotoluene	ND		ug/kg	510	19.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	510	41.	1
Hexachlorobutadiene	ND		ug/kg	510	36.	1
Isopropylbenzene	ND		ug/kg	100	20.	1
p-Isopropyltoluene	ND		ug/kg	100	21.	1
Naphthalene	4000		ug/kg	510	14.	1
Acrylonitrile	ND		ug/kg	1000	53.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	100	22.	1
1,2,3-Trichlorobenzene	ND		ug/kg	510	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	510	22.	1
1,3,5-Trimethylbenzene	ND		ug/kg	510	16.	1
1,2,4-Trimethylbenzene	23	J	ug/kg	510	19.	1
1,4-Dioxane	ND		ug/kg	4100	1500	1
p-Diethylbenzene	ND		ug/kg	410	410	1
p-Ethyltoluene	ND		ug/kg	410	24.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	410	16.	1
Ethyl ether	ND		ug/kg	510	27.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	510	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/31/18 23:55
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.4	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.94	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.94	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.94	0.28	1
Chlorobenzene	ND		ug/kg	0.94	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.39	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.94	0.33	1
Bromodichloromethane	ND		ug/kg	0.94	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.94	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.94	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.31	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.94	0.28	1
Benzene	ND		ug/kg	0.94	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.94	0.16	1
Chloromethane	ND		ug/kg	4.7	0.41	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.94	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.14	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.23	1
Dibromomethane	ND		ug/kg	9.4	0.22	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.47	1
Acetone	6.6	J	ug/kg	9.4	2.1	1
Carbon disulfide	ND		ug/kg	9.4	1.0	1
2-Butanone	ND		ug/kg	9.4	0.65	1
Vinyl acetate	ND		ug/kg	9.4	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.4	0.17	1
2-Hexanone	ND		ug/kg	9.4	0.62	1
Bromochloromethane	ND		ug/kg	4.7	0.34	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.42	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.94	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.20	1
n-Butylbenzene	ND		ug/kg	0.94	0.21	1
sec-Butylbenzene	ND		ug/kg	0.94	0.20	1
tert-Butylbenzene	ND		ug/kg	4.7	0.23	1
o-Chlorotoluene	ND		ug/kg	4.7	0.21	1
p-Chlorotoluene	ND		ug/kg	4.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.37	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.33	1
Isopropylbenzene	ND		ug/kg	0.94	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.19	1
Naphthalene	ND		ug/kg	4.7	0.13	1
Acrylonitrile	ND		ug/kg	9.4	0.48	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.17	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	ND		ug/kg	3.8	3.8	1
p-Ethyltoluene	ND		ug/kg	3.8	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.15	1
Ethyl ether	ND		ug/kg	4.7	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/18 00:22
Analyst: MV
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	0.30	J	ug/kg	0.92	0.18	1
Toluene	0.22	J	ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	3.5	J	ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.64	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.19	1
Naphthalene	ND		ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 06/01/18 00:49
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	0.20	J	ug/kg	1.0	0.20	1
Toluene	0.24	J	ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.36	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	18		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	2.2	J	ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.53	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	41	15.	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	ND		ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.1	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-08
Client ID: TRIP BLANK_052518
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 00:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/31/18 11:26
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS****Lab ID:** L1819490-08**Date Collected:** 05/25/18 00:00**Client ID:** TRIP BLANK_052518**Date Received:** 05/25/18**Sample Location:** 268 W. 96TH STREET**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-08
Client ID: TRIP BLANK_052518
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 00:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 09:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1121178-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 09:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1121178-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 09:00
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 08 Batch: WG1121178-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	92		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03,05-07 Batch: WG1121449-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.52	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03,05-07 Batch: WG1121449-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03,05-07 Batch: WG1121449-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1121451-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	26	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1121451-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 05/31/18 20:18
 Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG1121451-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1121178-3 WG1121178-4								
Methylene chloride	110		100		70-130	10		20
1,1-Dichloroethane	120		110		70-130	9		20
Chloroform	97		98		70-130	1		20
Carbon tetrachloride	88		85		63-132	3		20
1,2-Dichloropropane	120		120		70-130	0		20
Dibromochloromethane	95		97		63-130	2		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	88		87		70-130	1		20
Chlorobenzene	99		99		75-130	0		20
Trichlorofluoromethane	84		80		62-150	5		20
1,2-Dichloroethane	98		100		70-130	2		20
1,1,1-Trichloroethane	91		90		67-130	1		20
Bromodichloromethane	94		93		67-130	1		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		99		70-130	1		20
Bromoform	95		100		54-136	5		20
1,1,2,2-Tetrachloroethane	110		120		67-130	9		20
Benzene	100		99		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	110		110		64-130	0		20
Bromomethane	54		52		39-139	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1121178-3 WG1121178-4								
Vinyl chloride	73		71		55-140	3		20
Chloroethane	95		92		55-138	3		20
1,1-Dichloroethene	92		91		61-145	1		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	90		89		70-130	1		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	97		97		70-130	0		20
1,4-Dichlorobenzene	98		97		70-130	1		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	98		97		70-130	1		20
Dibromomethane	91		93		70-130	2		20
1,2,3-Trichloropropane	110		120		64-130	9		20
Acrylonitrile	150	Q	160	Q	70-130	6		20
Styrene	155	Q	155	Q	70-130	0		20
Dichlorodifluoromethane	69		67		36-147	3		20
Acetone	120		130		58-148	8		20
Carbon disulfide	98		94		51-130	4		20
2-Butanone	140	Q	150	Q	63-138	7		20
Vinyl acetate	120		130		70-130	8		20
4-Methyl-2-pentanone	120		130		59-130	8		20
2-Hexanone	120		130		57-130	8		20

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1121178-3 WG1121178-4								
Bromochloromethane	89		90		70-130	1		20
2,2-Dichloropropane	100		97		63-133	3		20
1,2-Dibromoethane	96		100		70-130	4		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	96		95		64-130	1		20
Bromobenzene	94		95		70-130	1		20
n-Butylbenzene	110		100		53-136	10		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	88		98		41-144	11		20
Hexachlorobutadiene	69		68		63-130	1		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	91		98		70-130	7		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	81		84		70-130	4		20
1,2,4-Trichlorobenzene	82		84		70-130	2		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	84		83		70-130	1		20
1,4-Dioxane	102		102		56-162	0		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08 Batch: WG1121178-3 WG1121178-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	96		96		70-130	0		20
Ethyl ether	110		120		59-134	9		20
trans-1,4-Dichloro-2-butene	120		130		70-130	8		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	105		103		70-130
Dibromofluoromethane	93		91		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05-07 Batch: WG1121449-3 WG1121449-4								
Methylene chloride	94		96		70-130	2		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	88		89		70-130	1		30
Carbon tetrachloride	88		88		70-130	0		30
1,2-Dichloropropane	95		97		70-130	2		30
Dibromochloromethane	84		84		70-130	0		30
1,1,2-Trichloroethane	89		90		70-130	1		30
Tetrachloroethene	100		100		70-130	0		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	87		89		70-139	2		30
1,2-Dichloroethane	75		77		70-130	3		30
1,1,1-Trichloroethane	86		87		70-130	1		30
Bromodichloromethane	88		90		70-130	2		30
trans-1,3-Dichloropropene	82		82		70-130	0		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	93		94		70-130	1		30
Bromoform	83		85		70-130	2		30
1,1,2,2-Tetrachloroethane	95		95		70-130	0		30
Benzene	95		96		70-130	1		30
Toluene	94		94		70-130	0		30
Ethylbenzene	92		92		70-130	0		30
Chloromethane	104		102		52-130	2		30
Bromomethane	108		107		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05-07 Batch: WG1121449-3 WG1121449-4								
Vinyl chloride	100		96		67-130	4		30
Chloroethane	78		84		50-151	7		30
1,1-Dichloroethene	104		103		65-135	1		30
trans-1,2-Dichloroethene	98		98		70-130	0		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	93		95		66-130	2		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	96		96		70-130	0		30
cis-1,2-Dichloroethene	98		102		70-130	4		30
Dibromomethane	84		87		70-130	4		30
Styrene	96		96		70-130	0		30
Dichlorodifluoromethane	79		81		30-146	3		30
Acetone	88		89		54-140	1		30
Carbon disulfide	89		89		59-130	0		30
2-Butanone	88		74		70-130	17		30
Vinyl acetate	76		77		70-130	1		30
4-Methyl-2-pentanone	91		88		70-130	3		30
1,2,3-Trichloropropane	89		89		68-130	0		30
2-Hexanone	83		78		70-130	6		30
Bromochloromethane	103		103		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05-07 Batch: WG1121449-3 WG1121449-4								
2,2-Dichloropropane	84		85		70-130	1		30
1,2-Dibromoethane	91		90		70-130	1		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	94		93		70-130	1		30
Bromobenzene	99		100		70-130	1		30
n-Butylbenzene	87		87		70-130	0		30
sec-Butylbenzene	92		91		70-130	1		30
tert-Butylbenzene	93		93		70-130	0		30
o-Chlorotoluene	87		88		70-130	1		30
p-Chlorotoluene	90		91		70-130	1		30
1,2-Dibromo-3-chloropropane	89		86		68-130	3		30
Hexachlorobutadiene	99		99		67-130	0		30
Isopropylbenzene	93		94		70-130	1		30
p-Isopropyltoluene	93		94		70-130	1		30
Naphthalene	103		102		70-130	1		30
Acrylonitrile	90		91		70-130	1		30
n-Propylbenzene	91		92		70-130	1		30
1,2,3-Trichlorobenzene	101		100		70-130	1		30
1,2,4-Trichlorobenzene	103		101		70-130	2		30
1,3,5-Trimethylbenzene	91		93		70-130	2		30
1,2,4-Trimethylbenzene	92		93		70-130	1		30
1,4-Dioxane	100		97		65-136	3		30
p-Diethylbenzene	94		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03,05-07 Batch: WG1121449-3 WG1121449-4								
p-Ethyltoluene	94		94		70-130	0		30
1,2,4,5-Tetramethylbenzene	94		94		70-130	0		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	74		76		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	79		79		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	96		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1121451-3 WG1121451-4								
Methylene chloride	94		96		70-130	2		30
1,1-Dichloroethane	88		90		70-130	2		30
Chloroform	88		89		70-130	1		30
Carbon tetrachloride	88		88		70-130	0		30
1,2-Dichloropropane	95		97		70-130	2		30
Dibromochloromethane	84		84		70-130	0		30
1,1,2-Trichloroethane	89		90		70-130	1		30
Tetrachloroethene	100		100		70-130	0		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	87		89		70-139	2		30
1,2-Dichloroethane	75		77		70-130	3		30
1,1,1-Trichloroethane	86		87		70-130	1		30
Bromodichloromethane	88		90		70-130	2		30
trans-1,3-Dichloropropene	82		82		70-130	0		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	93		94		70-130	1		30
Bromoform	83		85		70-130	2		30
1,1,2,2-Tetrachloroethane	95		95		70-130	0		30
Benzene	95		96		70-130	1		30
Toluene	94		94		70-130	0		30
Ethylbenzene	92		92		70-130	0		30
Chloromethane	104		102		52-130	2		30
Bromomethane	108		107		57-147	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1121451-3 WG1121451-4								
Vinyl chloride	100		96		67-130	4		30
Chloroethane	78		84		50-151	7		30
1,1-Dichloroethene	104		103		65-135	1		30
trans-1,2-Dichloroethene	98		98		70-130	0		30
Trichloroethene	92		93		70-130	1		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	94		94		70-130	0		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	93		95		66-130	2		30
p/m-Xylene	96		95		70-130	1		30
o-Xylene	96		96		70-130	0		30
cis-1,2-Dichloroethene	98		102		70-130	4		30
Dibromomethane	84		87		70-130	4		30
Styrene	96		96		70-130	0		30
Dichlorodifluoromethane	79		81		30-146	3		30
Acetone	88		89		54-140	1		30
Carbon disulfide	89		89		59-130	0		30
2-Butanone	88		74		70-130	17		30
Vinyl acetate	76		77		70-130	1		30
4-Methyl-2-pentanone	91		88		70-130	3		30
1,2,3-Trichloropropane	89		89		68-130	0		30
2-Hexanone	83		78		70-130	6		30
Bromochloromethane	103		103		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1121451-3 WG1121451-4								
2,2-Dichloropropane	84		85		70-130	1		30
1,2-Dibromoethane	91		90		70-130	1		30
1,3-Dichloropropane	94		94		69-130	0		30
1,1,1,2-Tetrachloroethane	94		93		70-130	1		30
Bromobenzene	99		100		70-130	1		30
n-Butylbenzene	87		87		70-130	0		30
sec-Butylbenzene	92		91		70-130	1		30
tert-Butylbenzene	93		93		70-130	0		30
o-Chlorotoluene	87		88		70-130	1		30
p-Chlorotoluene	90		91		70-130	1		30
1,2-Dibromo-3-chloropropane	89		86		68-130	3		30
Hexachlorobutadiene	99		99		67-130	0		30
Isopropylbenzene	93		94		70-130	1		30
p-Isopropyltoluene	93		94		70-130	1		30
Naphthalene	103		102		70-130	1		30
Acrylonitrile	90		91		70-130	1		30
n-Propylbenzene	91		92		70-130	1		30
1,2,3-Trichlorobenzene	101		100		70-130	1		30
1,2,4-Trichlorobenzene	103		101		70-130	2		30
1,3,5-Trimethylbenzene	91		93		70-130	2		30
1,2,4-Trimethylbenzene	92		93		70-130	1		30
1,4-Dioxane	100		97		65-136	3		30
p-Diethylbenzene	94		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG1121451-3 WG1121451-4								
p-Ethyltoluene	94		94		70-130	0		30
1,2,4,5-Tetramethylbenzene	94		94		70-130	0		30
Ethyl ether	87		91		67-130	4		30
trans-1,4-Dichloro-2-butene	74		76		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	79		79		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	96		96		70-130

SEMIVOLATILES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 20:47
Analyst: RC
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	22	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	230		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	71	J	ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
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	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	98	J	ug/kg	110	20.	1
Benzo(a)pyrene	84	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	96	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	31	J	ug/kg	110	28.	1
Chrysene	91	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	63	J	ug/kg	110	35.	1
Benzo(ghi)perylene	44	J	ug/kg	140	21.	1
Fluorene	29	J	ug/kg	180	17.	1
Phenanthrene	280		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	48	J	ug/kg	140	25.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
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	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	22	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	81		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 17:29
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

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	120	22.	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	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	29	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
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	41.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	45	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	34	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
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	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	77		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 22:25
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	240		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	32.	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	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	4600		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	110	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
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	2500		ug/kg	110	21.	1
Benzo(a)pyrene	2300		ug/kg	150	45.	1
Benzo(b)fluoranthene	2700		ug/kg	110	31.	1
Benzo(k)fluoranthene	810		ug/kg	110	29.	1
Chrysene	2300		ug/kg	110	19.	1
Acenaphthylene	410		ug/kg	150	28.	1
Anthracene	730		ug/kg	110	36.	1
Benzo(ghi)perylene	1400		ug/kg	150	22.	1
Fluorene	230		ug/kg	180	18.	1
Phenanthrene	2900		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	320		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1500		ug/kg	150	26.	1
Pyrene	5000		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	80	J	ug/kg	180	17.	1
2-Methylnaphthalene	50	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
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	160	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	89		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04 D2
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/02/18 03:09
Analyst: CB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	270000		ug/kg	11000	2200	100
Benzo(a)anthracene	130000		ug/kg	11000	2100	100
Benzo(a)pyrene	130000		ug/kg	15000	4600	100
Benzo(b)fluoranthene	140000		ug/kg	11000	3200	100
Chrysene	130000		ug/kg	11000	2000	100
Anthracene	91000		ug/kg	11000	3700	100
Benzo(ghi)perylene	76000		ug/kg	15000	2200	100
Phenanthrene	290000		ug/kg	11000	2300	100
Indeno(1,2,3-cd)pyrene	72000		ug/kg	15000	2600	100
Pyrene	300000		ug/kg	11000	1900	100

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-04 D

Date Collected: 05/25/18 12:55

Client ID: SB02_4.5-5.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 05/30/18 17:41

Analytical Date: 05/31/18 22:49

Analyst: RC

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	40000		ug/kg	1500	200	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	220	10
Hexachlorobenzene	ND		ug/kg	1100	210	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	260	10
2-Chloronaphthalene	ND		ug/kg	1900	190	10
1,2-Dichlorobenzene	ND		ug/kg	1900	340	10
1,3-Dichlorobenzene	ND		ug/kg	1900	320	10
1,4-Dichlorobenzene	ND		ug/kg	1900	330	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	380	10
2,6-Dinitrotoluene	ND		ug/kg	1900	320	10
Fluoranthene	190000	E	ug/kg	1100	220	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	290	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	320	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	190	10
Hexachlorobutadiene	ND		ug/kg	1900	280	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1700	240	10
Naphthalene	37000		ug/kg	1900	230	10
Nitrobenzene	ND		ug/kg	1700	280	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	290	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	650	10
Butyl benzyl phthalate	ND		ug/kg	1900	480	10
Di-n-butylphthalate	ND		ug/kg	1900	360	10
Di-n-octylphthalate	ND		ug/kg	1900	640	10

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-04 D

Date Collected: 05/25/18 12:55

Client ID: SB02_4.5-5.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

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	1900	170	10
Dimethyl phthalate	ND		ug/kg	1900	400	10
Benzo(a)anthracene	130000	E	ug/kg	1100	210	10
Benzo(a)pyrene	120000	E	ug/kg	1500	460	10
Benzo(b)fluoranthene	140000	E	ug/kg	1100	320	10
Benzo(k)fluoranthene	25000		ug/kg	1100	300	10
Chrysene	110000	E	ug/kg	1100	200	10
Acenaphthylene	14000		ug/kg	1500	290	10
Anthracene	79000	E	ug/kg	1100	370	10
Benzo(ghi)perylene	79000	E	ug/kg	1500	220	10
Fluorene	44000		ug/kg	1900	180	10
Phenanthrene	200000	E	ug/kg	1100	230	10
Dibenzo(a,h)anthracene	23000		ug/kg	1100	220	10
Indeno(1,2,3-cd)pyrene	85000	E	ug/kg	1500	260	10
Pyrene	210000	E	ug/kg	1100	190	10
Biphenyl	4700		ug/kg	4300	440	10
4-Chloroaniline	ND		ug/kg	1900	340	10
2-Nitroaniline	ND		ug/kg	1900	360	10
3-Nitroaniline	ND		ug/kg	1900	360	10
4-Nitroaniline	ND		ug/kg	1900	780	10
Dibenzofuran	22000		ug/kg	1900	180	10
2-Methylnaphthalene	17000		ug/kg	2300	230	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	200	10
Acetophenone	ND		ug/kg	1900	230	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	360	10
p-Chloro-m-cresol	ND		ug/kg	1900	280	10
2-Chlorophenol	ND		ug/kg	1900	220	10
2,4-Dichlorophenol	ND		ug/kg	1700	300	10
2,4-Dimethylphenol	700	J	ug/kg	1900	620	10
2-Nitrophenol	ND		ug/kg	4100	710	10
4-Nitrophenol	ND		ug/kg	2600	770	10
2,4-Dinitrophenol	ND		ug/kg	9000	880	10
4,6-Dinitro-o-cresol	ND		ug/kg	4900	900	10
Pentachlorophenol	ND		ug/kg	1500	420	10
Phenol	830	J	ug/kg	1900	280	10
2-Methylphenol	410	J	ug/kg	1900	290	10
3-Methylphenol/4-Methylphenol	1800	J	ug/kg	2700	300	10

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04 D
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
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	1900	360	10
Benzoic Acid	ND		ug/kg	6100	1900	10
Benzyl Alcohol	ND		ug/kg	1900	580	10
Carbazole	18000		ug/kg	1900	180	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	70		10-136
4-Terphenyl-d14	127	Q	18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 17:54
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	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	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
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	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	22	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	24	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
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	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	82		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 18:19
Analyst: RC
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

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	120	22.	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	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	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	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	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	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	66.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
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	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	920	90.	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: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
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	59.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	86		18-120

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/31/18 18:43
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	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	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07

Date Collected: 05/25/18 11:30

Client ID: SB05_5-6

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

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	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	28	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	21	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	91		18-120

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/31/18 07:47
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1120801-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	19.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	29.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	480	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	25.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	58.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	32.
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/31/18 07:47
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1120801-1					
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	41.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	27.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	39.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	21.
2,4,6-Trichlorophenol	ND		ug/kg	100	32.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 05/31/18 07:47
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 05/30/18 17:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1120801-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	78.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	37.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.

Tentatively Identified Compounds

Total TIC Compounds	193	J	ug/kg
Aldol Condensates	193	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

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: WG1120801-2 WG1120801-3								
Acenaphthene	79		78		31-137	1		50
1,2,4-Trichlorobenzene	84		80		38-107	5		50
Hexachlorobenzene	90		86		40-140	5		50
Bis(2-chloroethyl)ether	73		70		40-140	4		50
2-Chloronaphthalene	93		88		40-140	6		50
1,2-Dichlorobenzene	74		72		40-140	3		50
1,3-Dichlorobenzene	72		71		40-140	1		50
1,4-Dichlorobenzene	73		72		28-104	1		50
3,3'-Dichlorobenzidine	60		58		40-140	3		50
2,4-Dinitrotoluene	96		92		40-132	4		50
2,6-Dinitrotoluene	104		99		40-140	5		50
Fluoranthene	90		87		40-140	3		50
4-Chlorophenyl phenyl ether	88		86		40-140	2		50
4-Bromophenyl phenyl ether	91		88		40-140	3		50
Bis(2-chloroisopropyl)ether	68		67		40-140	1		50
Bis(2-chloroethoxy)methane	76		72		40-117	5		50
Hexachlorobutadiene	88		86		40-140	2		50
Hexachlorocyclopentadiene	66		65		40-140	2		50
Hexachloroethane	72		71		40-140	1		50
Isophorone	76		72		40-140	5		50
Naphthalene	79		77		40-140	3		50
Nitrobenzene	75		72		40-140	4		50
NDPA/DPA	87		85		36-157	2		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

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: WG1120801-2 WG1120801-3								
n-Nitrosodi-n-propylamine	74		71		32-121	4		50
Bis(2-ethylhexyl)phthalate	79		75		40-140	5		50
Butyl benzyl phthalate	83		81		40-140	2		50
Di-n-butylphthalate	84		82		40-140	2		50
Di-n-octylphthalate	78		75		40-140	4		50
Diethyl phthalate	87		84		40-140	4		50
Dimethyl phthalate	92		89		40-140	3		50
Benzo(a)anthracene	83		80		40-140	4		50
Benzo(a)pyrene	75		74		40-140	1		50
Benzo(b)fluoranthene	77		71		40-140	8		50
Benzo(k)fluoranthene	75		77		40-140	3		50
Chrysene	84		80		40-140	5		50
Acenaphthylene	93		88		40-140	6		50
Anthracene	83		80		40-140	4		50
Benzo(ghi)perylene	85		82		40-140	4		50
Fluorene	84		82		40-140	2		50
Phenanthrene	84		82		40-140	2		50
Dibenzo(a,h)anthracene	84		80		40-140	5		50
Indeno(1,2,3-cd)pyrene	86		80		40-140	7		50
Pyrene	90		86		35-142	5		50
Biphenyl	94		91		54-104	3		50
4-Chloroaniline	68		63		40-140	8		50
2-Nitroaniline	94		88		47-134	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

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: WG1120801-2 WG1120801-3								
3-Nitroaniline	77		76		26-129	1		50
4-Nitroaniline	84		81		41-125	4		50
Dibenzofuran	82		81		40-140	1		50
2-Methylnaphthalene	84		81		40-140	4		50
1,2,4,5-Tetrachlorobenzene	100		95		40-117	5		50
Acetophenone	80		76		14-144	5		50
2,4,6-Trichlorophenol	95		90		30-130	5		50
p-Chloro-m-cresol	87		84		26-103	4		50
2-Chlorophenol	82		78		25-102	5		50
2,4-Dichlorophenol	88		83		30-130	6		50
2,4-Dimethylphenol	86		81		30-130	6		50
2-Nitrophenol	87		83		30-130	5		50
4-Nitrophenol	83		80		11-114	4		50
2,4-Dinitrophenol	63		65		4-130	3		50
4,6-Dinitro-o-cresol	99		96		10-130	3		50
Pentachlorophenol	74		74		17-109	0		50
Phenol	81		76		26-90	6		50
2-Methylphenol	81		77		30-130.	5		50
3-Methylphenol/4-Methylphenol	87		82		30-130	6		50
2,4,5-Trichlorophenol	98		93		30-130	5		50
Benzoic Acid	22		31		10-110	34		50
Benzyl Alcohol	78		76		40-140	3		50
Carbazole	84		80		54-128	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1120801-2 WG1120801-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		75		25-120
Phenol-d6	79		76		10-120
Nitrobenzene-d5	73		71		23-120
2-Fluorobiphenyl	83		83		30-120
2,4,6-Tribromophenol	89		85		10-136
4-Terphenyl-d14	85		84		18-120

PCBS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/02/18 01:38
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.0	3.97	1	A
Aroclor 1221	ND		ug/kg	35.0	5.33	1	A
Aroclor 1232	ND		ug/kg	35.0	3.44	1	A
Aroclor 1242	ND		ug/kg	35.0	4.28	1	A
Aroclor 1248	ND		ug/kg	35.0	3.93	1	A
Aroclor 1254	5.03	J	ug/kg	35.0	2.86	1	B
Aroclor 1260	4.04	J	ug/kg	35.0	3.65	1	B
Aroclor 1262	ND		ug/kg	35.0	2.88	1	A
Aroclor 1268	ND		ug/kg	35.0	2.48	1	A
PCBs, Total	9.07	J	ug/kg	35.0	2.48	1	B

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	75		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 02:42
Analyst: KB
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	4.36	1	A
Aroclor 1221	ND		ug/kg	38.5	5.85	1	A
Aroclor 1232	ND		ug/kg	38.5	3.78	1	A
Aroclor 1242	ND		ug/kg	38.5	4.71	1	A
Aroclor 1248	ND		ug/kg	38.5	4.32	1	A
Aroclor 1254	ND		ug/kg	38.5	3.14	1	A
Aroclor 1260	ND		ug/kg	38.5	4.02	1	A
Aroclor 1262	ND		ug/kg	38.5	3.16	1	A
Aroclor 1268	ND		ug/kg	38.5	2.72	1	A
PCBs, Total	ND		ug/kg	38.5	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 02:55
Analyst: KB
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	4.05	1	A
Aroclor 1221	ND		ug/kg	35.7	5.44	1	A
Aroclor 1232	ND		ug/kg	35.7	3.51	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	4.01	1	A
Aroclor 1254	ND		ug/kg	35.7	2.91	1	A
Aroclor 1260	ND		ug/kg	35.7	3.73	1	A
Aroclor 1262	ND		ug/kg	35.7	2.94	1	A
Aroclor 1268	ND		ug/kg	35.7	2.53	1	A
PCBs, Total	ND		ug/kg	35.7	2.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 01:24
Analyst: KB
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.0	4.30	1	A
Aroclor 1221	ND		ug/kg	38.0	5.78	1	A
Aroclor 1232	ND		ug/kg	38.0	3.73	1	A
Aroclor 1242	ND		ug/kg	38.0	4.64	1	A
Aroclor 1248	ND		ug/kg	38.0	4.26	1	A
Aroclor 1254	ND		ug/kg	38.0	3.10	1	A
Aroclor 1260	ND		ug/kg	38.0	3.96	1	A
Aroclor 1262	ND		ug/kg	38.0	3.12	1	A
Aroclor 1268	ND		ug/kg	38.0	2.69	1	A
PCBs, Total	ND		ug/kg	38.0	2.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 03:21
Analyst: KB
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	4.09	1	A
Aroclor 1221	ND		ug/kg	36.1	5.49	1	A
Aroclor 1232	ND		ug/kg	36.1	3.55	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	4.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.94	1	A
Aroclor 1260	ND		ug/kg	36.1	3.76	1	A
Aroclor 1262	ND		ug/kg	36.1	2.96	1	A
Aroclor 1268	ND		ug/kg	36.1	2.55	1	A
PCBs, Total	ND		ug/kg	36.1	2.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 03:34
Analyst: KB
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	4.38	1	A
Aroclor 1221	ND		ug/kg	38.6	5.88	1	A
Aroclor 1232	ND		ug/kg	38.6	3.80	1	A
Aroclor 1242	ND		ug/kg	38.6	4.73	1	A
Aroclor 1248	ND		ug/kg	38.6	4.34	1	A
Aroclor 1254	ND		ug/kg	38.6	3.15	1	A
Aroclor 1260	ND		ug/kg	38.6	4.03	1	A
Aroclor 1262	ND		ug/kg	38.6	3.18	1	A
Aroclor 1268	ND		ug/kg	38.6	2.74	1	A
PCBs, Total	ND		ug/kg	38.6	2.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/03/18 03:47
Analyst: KB
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:20
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.11	1	A
Aroclor 1221	ND		ug/kg	36.2	5.52	1	A
Aroclor 1232	ND		ug/kg	36.2	3.57	1	A
Aroclor 1242	ND		ug/kg	36.2	4.44	1	A
Aroclor 1248	ND		ug/kg	36.2	4.07	1	A
Aroclor 1254	ND		ug/kg	36.2	2.96	1	A
Aroclor 1260	ND		ug/kg	36.2	3.78	1	A
Aroclor 1262	ND		ug/kg	36.2	2.98	1	A
Aroclor 1268	ND		ug/kg	36.2	2.57	1	A
PCBs, Total	ND		ug/kg	36.2	2.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 05/30/18 09:40
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 05/30/18 00:10
 Cleanup Method: EPA 3665A
 Cleanup Date: 05/30/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 05/30/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-07 Batch: WG1120421-1						
Aroclor 1016	ND		ug/kg	31.4	3.56	A
Aroclor 1221	ND		ug/kg	31.4	4.78	A
Aroclor 1232	ND		ug/kg	31.4	3.09	A
Aroclor 1242	ND		ug/kg	31.4	3.84	A
Aroclor 1248	ND		ug/kg	31.4	3.52	A
Aroclor 1254	ND		ug/kg	31.4	2.56	A
Aroclor 1260	ND		ug/kg	31.4	3.28	A
Aroclor 1262	ND		ug/kg	31.4	2.58	A
Aroclor 1268	ND		ug/kg	31.4	2.22	A
PCBs, Total	ND		ug/kg	31.4	2.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	118		30-150	B
Decachlorobiphenyl	97		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

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: WG1120421-2 WG1120421-3									
Aroclor 1016	90		93		40-140	3		50	A
Aroclor 1260	77		81		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		108		30-150	A
Decachlorobiphenyl	83		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	110		120		30-150	B
Decachlorobiphenyl	94		99		30-150	B

PESTICIDES

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 20:42
Analyst: KEG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	2.86		ug/kg	1.70	0.392	1	B
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	14.0		ug/kg	3.18	1.36	1	B
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	1.64	J	ug/kg	1.70	0.567	1	B
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.989	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	3.53		ug/kg	2.12	0.591	1	B
trans-Chlordane	3.41	PI	ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	13.8	5.62	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 20:30
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.772	0.345	1	A
Alpha-BHC	ND		ug/kg	0.772	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.702	1	A
Heptachlor	ND		ug/kg	0.926	0.415	1	A
Aldrin	ND		ug/kg	1.85	0.652	1	A
Heptachlor epoxide	ND		ug/kg	3.47	1.04	1	A
Endrin	ND		ug/kg	0.772	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.810	1	A
Endrin ketone	ND		ug/kg	1.85	0.477	1	A
Dieldrin	ND		ug/kg	1.16	0.579	1	A
4,4'-DDE	1.17	J	ug/kg	1.85	0.428	1	A
4,4'-DDD	ND		ug/kg	1.85	0.661	1	A
4,4'-DDT	1.89	J	ug/kg	3.47	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.438	1	A
Endosulfan II	ND		ug/kg	1.85	0.619	1	A
Endosulfan sulfate	ND		ug/kg	0.772	0.367	1	A
Methoxychlor	ND		ug/kg	3.47	1.08	1	A
Toxaphene	ND		ug/kg	34.7	9.72	1	A
cis-Chlordane	ND		ug/kg	2.32	0.645	1	A
trans-Chlordane	ND		ug/kg	2.32	0.611	1	A
Chlordane	ND		ug/kg	15.0	6.14	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	137		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 20:17
Analyst: DGM
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.735	0.328	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.668	1	A
Heptachlor	ND		ug/kg	0.882	0.395	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	0.771	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.551	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	3.31		ug/kg	1.76	0.589	1	B
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	2.20	0.614	1	A
trans-Chlordane	ND		ug/kg	2.20	0.582	1	A
Chlordane	ND		ug/kg	14.3	5.84	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04 D
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 20:55
Analyst: KEG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	36.8	7.22	20	A
Lindane	ND		ug/kg	15.4	6.86	20	A
Alpha-BHC	ND		ug/kg	15.4	4.36	20	A
Beta-BHC	ND		ug/kg	36.8	14.0	20	A
Heptachlor	ND		ug/kg	18.4	8.26	20	A
Aldrin	ND		ug/kg	36.8	13.0	20	A
Heptachlor epoxide	ND		ug/kg	69.1	20.7	20	A
Endrin	ND		ug/kg	15.4	6.29	20	A
Endrin aldehyde	ND		ug/kg	46.0	16.1	20	A
Endrin ketone	ND		ug/kg	36.8	9.49	20	A
Dieldrin	ND		ug/kg	23.0	11.5	20	A
4,4'-DDE	ND		ug/kg	36.8	8.52	20	A
4,4'-DDD	ND		ug/kg	36.8	13.1	20	A
4,4'-DDT	ND		ug/kg	69.1	29.6	20	A
Endosulfan I	ND		ug/kg	36.8	8.70	20	A
Endosulfan II	124	PI	ug/kg	36.8	12.3	20	A
Endosulfan sulfate	ND		ug/kg	15.4	7.31	20	A
Methoxychlor	ND		ug/kg	69.1	21.5	20	A
Toxaphene	ND		ug/kg	691	193.	20	A
cis-Chlordane	ND		ug/kg	46.0	12.8	20	A
trans-Chlordane	ND		ug/kg	46.0	12.2	20	A
Chlordane	ND		ug/kg	299	122.	20	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04 D
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
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	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 20:04
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.336	1	A
Lindane	ND		ug/kg	0.715	0.320	1	A
Alpha-BHC	ND		ug/kg	0.715	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.650	1	A
Heptachlor	ND		ug/kg	0.858	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.604	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.965	1	A
Endrin	ND		ug/kg	0.715	0.293	1	A
Endrin aldehyde	ND		ug/kg	2.14	0.751	1	A
Endrin ketone	ND		ug/kg	1.72	0.442	1	A
Dieldrin	ND		ug/kg	1.07	0.536	1	A
4,4'-DDE	ND		ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.612	1	A
4,4'-DDT	ND		ug/kg	3.22	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.405	1	A
Endosulfan II	ND		ug/kg	1.72	0.573	1	A
Endosulfan sulfate	ND		ug/kg	0.715	0.340	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.01	1	A
cis-Chlordane	ND		ug/kg	2.14	0.598	1	A
trans-Chlordane	ND		ug/kg	2.14	0.566	1	A
Chlordane	ND		ug/kg	13.9	5.68	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	94		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 19:39
Analyst: KEG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.359	1	A
Lindane	ND		ug/kg	0.765	0.342	1	A
Alpha-BHC	ND		ug/kg	0.765	0.217	1	A
Beta-BHC	ND		ug/kg	1.84	0.696	1	A
Heptachlor	ND		ug/kg	0.918	0.411	1	A
Aldrin	ND		ug/kg	1.84	0.646	1	A
Heptachlor epoxide	ND		ug/kg	3.44	1.03	1	A
Endrin	ND		ug/kg	0.765	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.29	0.803	1	A
Endrin ketone	ND		ug/kg	1.84	0.473	1	A
Dieldrin	ND		ug/kg	1.15	0.574	1	A
4,4'-DDE	ND		ug/kg	1.84	0.424	1	A
4,4'-DDD	ND		ug/kg	1.84	0.655	1	A
4,4'-DDT	ND		ug/kg	3.44	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.434	1	A
Endosulfan II	ND		ug/kg	1.84	0.613	1	A
Endosulfan sulfate	ND		ug/kg	0.765	0.364	1	A
Methoxychlor	ND		ug/kg	3.44	1.07	1	A
Toxaphene	ND		ug/kg	34.4	9.64	1	A
cis-Chlordane	ND		ug/kg	2.29	0.639	1	A
trans-Chlordane	ND		ug/kg	2.29	0.606	1	A
Chlordane	ND		ug/kg	14.9	6.08	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
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	83		30-150	B
Decachlorobiphenyl	89		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/01/18 19:52
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/30/18 00:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.946	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.735	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.525	1	A
4,4'-DDE	1.16	J	ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	1.62	J	ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.980	1	A
Toxaphene	ND		ug/kg	31.5	8.82	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.555	1	A
Chlordane	ND		ug/kg	13.6	5.57	1	A

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	67		30-150	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/31/18 13:33
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 05/29/18 10:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/30/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1120199-1						
Delta-BHC	ND		ug/kg	1.53	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.579	A
Heptachlor	ND		ug/kg	0.763	0.342	A
Aldrin	ND		ug/kg	1.53	0.538	A
Heptachlor epoxide	ND		ug/kg	2.86	0.859	A
Endrin	ND		ug/kg	0.636	0.261	A
Endrin aldehyde	ND		ug/kg	1.91	0.668	A
Endrin ketone	ND		ug/kg	1.53	0.393	A
Dieldrin	ND		ug/kg	0.954	0.477	A
4,4'-DDE	ND		ug/kg	1.53	0.353	A
4,4'-DDD	ND		ug/kg	1.53	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.303	A
Methoxychlor	ND		ug/kg	2.86	0.890	A
Toxaphene	ND		ug/kg	28.6	8.02	A
cis-Chlordane	ND		ug/kg	1.91	0.532	A
trans-Chlordane	ND		ug/kg	1.91	0.504	A
Chlordane	ND		ug/kg	12.4	5.06	A

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 05/31/18 13:33
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 05/29/18 10:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 05/30/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-07 Batch: WG1120199-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	175	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	195	Q	30-150	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1120199-2 WG1120199-3									
Delta-BHC	98		102		30-150	4		30	A
Lindane	98		103		30-150	5		30	A
Alpha-BHC	100		105		30-150	5		30	A
Beta-BHC	116		124		30-150	7		30	A
Heptachlor	103		105		30-150	2		30	A
Aldrin	109		112		30-150	3		30	A
Heptachlor epoxide	125		119		30-150	5		30	A
Endrin	110		112		30-150	2		30	A
Endrin aldehyde	119		117		30-150	2		30	A
Endrin ketone	135		133		30-150	1		30	A
Dieldrin	120		123		30-150	2		30	A
4,4'-DDE	111		113		30-150	2		30	A
4,4'-DDD	117		117		30-150	0		30	A
4,4'-DDT	121		125		30-150	3		30	A
Endosulfan I	112		114		30-150	2		30	A
Endosulfan II	121		122		30-150	1		30	A
Endosulfan sulfate	149		145		30-150	3		30	A
Methoxychlor	111		113		30-150	2		30	A
cis-Chlordane	102		104		30-150	2		30	A
trans-Chlordane	33		30		30-150	10		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-07 Batch: WG1120199-2 WG1120199-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	B
Decachlorobiphenyl	147		155	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	92		97		30-150	A
Decachlorobiphenyl	128		149		30-150	A

METALS

Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-01

Date Collected: 05/25/18 11:00

Client ID: SB01_0.5-1.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7310		mg/kg	8.23	2.22	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Antimony, Total	1.49	J	mg/kg	4.11	0.313	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Arsenic, Total	3.32		mg/kg	0.823	0.171	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Barium, Total	47.3		mg/kg	0.823	0.143	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Beryllium, Total	0.230	J	mg/kg	0.411	0.027	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.823	0.081	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Calcium, Total	35900		mg/kg	8.23	2.88	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Chromium, Total	11.3		mg/kg	0.823	0.079	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Cobalt, Total	5.16		mg/kg	1.64	0.136	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Copper, Total	27.1		mg/kg	0.823	0.212	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Iron, Total	12200		mg/kg	4.11	0.743	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Lead, Total	29.2		mg/kg	4.11	0.220	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Magnesium, Total	6780		mg/kg	8.23	1.27	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Manganese, Total	379		mg/kg	0.823	0.131	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Mercury, Total	0.087		mg/kg	0.070	0.015	1	05/31/18 08:00	05/31/18 18:12	EPA 7471B	1,7471B	EA
Nickel, Total	12.3		mg/kg	2.06	0.199	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Potassium, Total	1150		mg/kg	206	11.8	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Selenium, Total	1.09	J	mg/kg	1.64	0.212	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.823	0.233	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Sodium, Total	383		mg/kg	164	2.59	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.64	0.259	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Vanadium, Total	15.4		mg/kg	0.823	0.167	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
Zinc, Total	50.2		mg/kg	4.11	0.241	2	06/01/18 13:40	06/02/18 11:25	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.87	0.87	1		06/02/18 11:25	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-02

Date Collected: 05/25/18 11:05

Client ID: SB01_6-7

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11500		mg/kg	9.40	2.54	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Antimony, Total	1.96	J	mg/kg	4.70	0.357	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Arsenic, Total	3.31		mg/kg	0.940	0.195	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Barium, Total	38.2		mg/kg	0.940	0.163	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Beryllium, Total	0.301	J	mg/kg	0.470	0.031	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.940	0.092	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Calcium, Total	1070		mg/kg	9.40	3.29	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Chromium, Total	22.9		mg/kg	0.940	0.090	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Cobalt, Total	8.53		mg/kg	1.88	0.156	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Copper, Total	15.4		mg/kg	0.940	0.242	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Iron, Total	19300		mg/kg	4.70	0.848	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Lead, Total	10.7		mg/kg	4.70	0.252	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Magnesium, Total	3440		mg/kg	9.40	1.45	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Manganese, Total	431		mg/kg	0.940	0.149	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Mercury, Total	0.022	J	mg/kg	0.074	0.016	1	05/31/18 08:00	05/31/18 18:14	EPA 7471B	1,7471B	EA
Nickel, Total	15.5		mg/kg	2.35	0.227	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Potassium, Total	1070		mg/kg	235	13.5	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Selenium, Total	1.28	J	mg/kg	1.88	0.242	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.940	0.266	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Sodium, Total	424		mg/kg	188	2.96	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.88	0.296	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Vanadium, Total	30.6		mg/kg	0.940	0.191	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
Zinc, Total	34.5		mg/kg	4.70	0.275	2	06/01/18 13:40	06/02/18 11:29	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23		mg/kg	0.95	0.95	1		06/02/18 11:29	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-03

Date Collected: 05/25/18 12:50

Client ID: SB02_0.5-1.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

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	7370		mg/kg	8.72	2.36	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Antimony, Total	2.29	J	mg/kg	4.36	0.332	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Arsenic, Total	9.14		mg/kg	0.872	0.181	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Barium, Total	132		mg/kg	0.872	0.152	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Beryllium, Total	0.209	J	mg/kg	0.436	0.029	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Cadmium, Total	0.314	J	mg/kg	0.872	0.086	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Calcium, Total	13500		mg/kg	8.72	3.05	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Chromium, Total	15.3		mg/kg	0.872	0.084	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Cobalt, Total	7.35		mg/kg	1.74	0.145	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Copper, Total	55.7		mg/kg	0.872	0.225	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Iron, Total	15300		mg/kg	4.36	0.788	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Lead, Total	201		mg/kg	4.36	0.234	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Magnesium, Total	4430		mg/kg	8.72	1.34	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Manganese, Total	284		mg/kg	0.872	0.139	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Mercury, Total	0.299		mg/kg	0.070	0.015	1	05/31/18 08:00	05/31/18 18:16	EPA 7471B	1,7471B	EA
Nickel, Total	16.8		mg/kg	2.18	0.211	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Potassium, Total	1570		mg/kg	218	12.6	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Selenium, Total	1.34	J	mg/kg	1.74	0.225	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.872	0.247	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Sodium, Total	82.1	J	mg/kg	174	2.75	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.74	0.275	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Vanadium, Total	20.1		mg/kg	0.872	0.177	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
Zinc, Total	250		mg/kg	4.36	0.256	2	06/01/18 13:40	06/02/18 11:34	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	0.89	0.89	1		06/02/18 11:34	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-04

Date Collected: 05/25/18 12:55

Client ID: SB02_4.5-5.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

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	8230		mg/kg	9.08	2.45	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Antimony, Total	1.52	J	mg/kg	4.54	0.345	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Arsenic, Total	5.62		mg/kg	0.908	0.189	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Barium, Total	78.5		mg/kg	0.908	0.158	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Beryllium, Total	0.236	J	mg/kg	0.454	0.030	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Cadmium, Total	0.182	J	mg/kg	0.908	0.089	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Calcium, Total	5320		mg/kg	9.08	3.18	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Chromium, Total	16.1		mg/kg	0.908	0.087	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Cobalt, Total	6.87		mg/kg	1.82	0.151	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Copper, Total	34.6		mg/kg	0.908	0.234	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Iron, Total	18400		mg/kg	4.54	0.820	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Lead, Total	228		mg/kg	4.54	0.243	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Magnesium, Total	3440		mg/kg	9.08	1.40	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Manganese, Total	281		mg/kg	0.908	0.144	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Mercury, Total	0.753		mg/kg	0.073	0.015	1	05/31/18 08:00	05/31/18 18:18	EPA 7471B	1,7471B	EA
Nickel, Total	14.5		mg/kg	2.27	0.220	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Potassium, Total	1150		mg/kg	227	13.1	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Selenium, Total	1.26	J	mg/kg	1.82	0.234	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.908	0.257	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Sodium, Total	57.1	J	mg/kg	182	2.86	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.82	0.286	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Vanadium, Total	18.8		mg/kg	0.908	0.184	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
Zinc, Total	223		mg/kg	4.54	0.266	2	06/01/18 13:40	06/02/18 11:39	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.93	0.93	1		06/02/18 11:39	NA	107,-	



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-05

Date Collected: 05/25/18 13:10

Client ID: SB02_11-12

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

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	11700		mg/kg	8.75	2.36	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Antimony, Total	3.31	J	mg/kg	4.38	0.333	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Arsenic, Total	2.63		mg/kg	0.875	0.182	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Barium, Total	50.9		mg/kg	0.875	0.152	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Beryllium, Total	0.315	J	mg/kg	0.438	0.029	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.875	0.086	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Calcium, Total	1070		mg/kg	8.75	3.06	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Chromium, Total	23.1		mg/kg	0.875	0.084	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Cobalt, Total	9.60		mg/kg	1.75	0.145	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Copper, Total	15.2		mg/kg	0.875	0.226	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Iron, Total	20400		mg/kg	4.38	0.790	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Lead, Total	8.19		mg/kg	4.38	0.235	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Magnesium, Total	4690		mg/kg	8.75	1.35	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Manganese, Total	214		mg/kg	0.875	0.139	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Mercury, Total	ND		mg/kg	0.070	0.015	1	05/31/18 08:00	05/31/18 18:19	EPA 7471B	1,7471B	EA
Nickel, Total	20.9		mg/kg	2.19	0.212	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Potassium, Total	1990		mg/kg	219	12.6	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Selenium, Total	1.08	J	mg/kg	1.75	0.226	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.875	0.248	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Sodium, Total	80.2	J	mg/kg	175	2.76	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.75	0.276	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Vanadium, Total	38.7		mg/kg	0.875	0.178	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE
Zinc, Total	37.6		mg/kg	4.38	0.256	2	06/01/18 13:40	06/02/18 11:43	EPA 3050B	1,6010C	PE

General Chemistry - Mansfield Lab

Chromium, Trivalent	23		mg/kg	0.89	0.89	1		06/02/18 11:43	NA	107,-	
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Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-06

Date Collected: 05/25/18 11:35

Client ID: SB05_0.5-1.5

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8340		mg/kg	9.36	2.53	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Antimony, Total	0.590	J	mg/kg	4.68	0.356	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Arsenic, Total	3.95		mg/kg	0.936	0.195	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Barium, Total	12.1		mg/kg	0.936	0.163	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Beryllium, Total	0.196	J	mg/kg	0.468	0.031	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.936	0.092	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Calcium, Total	782		mg/kg	9.36	3.28	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Chromium, Total	9.47		mg/kg	0.936	0.090	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Cobalt, Total	7.66		mg/kg	1.87	0.155	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Copper, Total	20.2		mg/kg	0.936	0.241	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Iron, Total	16400		mg/kg	4.68	0.845	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Lead, Total	8.12		mg/kg	4.68	0.251	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Magnesium, Total	3410		mg/kg	9.36	1.44	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Manganese, Total	193		mg/kg	0.936	0.149	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Mercury, Total	0.030	J	mg/kg	0.076	0.016	1	05/31/18 08:00	05/31/18 18:21	EPA 7471B	1,7471B	EA
Nickel, Total	14.9		mg/kg	2.34	0.226	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Potassium, Total	280		mg/kg	234	13.5	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Selenium, Total	1.02	J	mg/kg	1.87	0.241	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.936	0.265	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Sodium, Total	20.4	J	mg/kg	187	2.95	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.87	0.295	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Vanadium, Total	11.4		mg/kg	0.936	0.190	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE
Zinc, Total	47.7		mg/kg	4.68	0.274	2	06/01/18 13:40	06/02/18 11:48	EPA 3050B	1,6010C	PE

General Chemistry - Mansfield Lab

Chromium, Trivalent	9.5		mg/kg	0.94	0.94	1		06/02/18 11:48	NA	107,-	
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Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819490**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819490-07

Date Collected: 05/25/18 11:30

Client ID: SB05_5-6

Date Received: 05/25/18

Sample Location: 268 W. 96TH STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7760		mg/kg	8.34	2.25	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Antimony, Total	1.76	J	mg/kg	4.17	0.317	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Arsenic, Total	2.78		mg/kg	0.834	0.174	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Barium, Total	34.7		mg/kg	0.834	0.145	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Beryllium, Total	0.309	J	mg/kg	0.417	0.028	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.834	0.082	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Calcium, Total	1100		mg/kg	8.34	2.92	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Chromium, Total	20.3		mg/kg	0.834	0.080	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Cobalt, Total	5.86		mg/kg	1.67	0.138	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Copper, Total	18.2		mg/kg	0.834	0.215	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Iron, Total	14200		mg/kg	4.17	0.753	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Lead, Total	6.99		mg/kg	4.17	0.224	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Magnesium, Total	3140		mg/kg	8.34	1.28	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Manganese, Total	173		mg/kg	0.834	0.133	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Mercury, Total	ND		mg/kg	0.069	0.015	1	05/31/18 08:00	05/31/18 18:27	EPA 7471B	1,7471B	EA
Nickel, Total	13.8		mg/kg	2.08	0.202	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Potassium, Total	1190		mg/kg	208	12.0	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Selenium, Total	0.759	J	mg/kg	1.67	0.215	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Silver, Total	ND		mg/kg	0.834	0.236	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Sodium, Total	100	J	mg/kg	167	2.63	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Thallium, Total	ND		mg/kg	1.67	0.263	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Vanadium, Total	25.6		mg/kg	0.834	0.169	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
Zinc, Total	28.2		mg/kg	4.17	0.244	2	06/01/18 13:40	06/02/18 11:53	EPA 3050B	1,6010C	PE
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.88	0.88	1		06/02/18 11:53	NA	107,-	



Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

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: WG1120927-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/31/18 08:00	05/31/18 17:42	1,7471B	EA

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: WG1121501-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Barium, Total	ND		mg/kg	0.400	0.070	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Copper, Total	ND		mg/kg	0.400	0.103	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Iron, Total	ND		mg/kg	2.00	0.361	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Lead, Total	ND		mg/kg	2.00	0.107	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Potassium, Total	ND		mg/kg	100	5.76	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Silver, Total	ND		mg/kg	0.400	0.113	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Sodium, Total	1.39	J	mg/kg	80.0	1.26	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/01/18 13:40	06/02/18 10:15	1,6010C	PE

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1819490**Report Date:** 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1120927-2 SRM Lot Number: D098-540								
Mercury, Total	97		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1121501-2 SRM Lot Number: D098-540					
Aluminum, Total	68	-	47-153	-	
Antimony, Total	152	-	6-194	-	
Arsenic, Total	97	-	83-117	-	
Barium, Total	85	-	82-118	-	
Beryllium, Total	89	-	83-117	-	
Cadmium, Total	97	-	82-117	-	
Calcium, Total	90	-	81-118	-	
Chromium, Total	93	-	83-119	-	
Cobalt, Total	98	-	84-116	-	
Copper, Total	97	-	84-116	-	
Iron, Total	92	-	60-140	-	
Lead, Total	94	-	82-117	-	
Magnesium, Total	87	-	76-124	-	
Manganese, Total	86	-	82-118	-	
Nickel, Total	97	-	82-117	-	
Potassium, Total	82	-	69-131	-	
Selenium, Total	99	-	78-121	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	90	-	74-126	-	
Thallium, Total	96	-	80-119	-	
Vanadium, Total	95	-	79-121	-	

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1121501-2 SRM Lot Number: D098-540					
Zinc, Total	95	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

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: WG1120927-3 QC Sample: L1819249-01 Client ID: MS Sample												
Mercury, Total	ND	0.136	0.161	118		-	-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

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: WG1121501-3 WG1121501-4 QC Sample: L1819539-07 Client ID: MS Sample											
Aluminum, Total	4700	173	5560	498	Q	5340	379	Q	75-125	4	20
Antimony, Total	0.474J	43.2	35.3	82		33.8	80		75-125	4	20
Arsenic, Total	7.42	10.4	15.1	74	Q	15.2	77		75-125	1	20
Barium, Total	26.9	173	177	87		163	81		75-125	8	20
Beryllium, Total	0.203J	4.32	3.86	89		3.57	85		75-125	8	20
Cadmium, Total	ND	4.4	3.58	81		3.42	79		75-125	5	20
Calcium, Total	1660	864	1680	2	Q	1660	0	Q	75-125	1	20
Chromium, Total	6.11	17.3	21.1	87		20.1	83		75-125	5	20
Cobalt, Total	4.64	43.2	40.4	83		38.8	81		75-125	4	20
Copper, Total	17.8	21.6	36.8	88		35.3	83		75-125	4	20
Iron, Total	12100	86.4	12900	926	Q	12800	829	Q	75-125	1	20
Lead, Total	12.4	44	49.1	83		47.8	82		75-125	3	20
Magnesium, Total	1500	864	2270	89		2250	89		75-125	1	20
Manganese, Total	416.	43.2	384	0	Q	407	0	Q	75-125	6	20
Nickel, Total	11.1	43.2	46.1	81		44.2	78		75-125	4	20
Potassium, Total	268.	864	1100	96		1020	89		75-125	8	20
Selenium, Total	0.795J	10.4	9.46	91		9.20	91		75-125	3	20
Silver, Total	ND	25.9	23.1	89		22.0	87		75-125	5	20
Sodium, Total	441.	864	1350	105		1250	96		75-125	8	20
Thallium, Total	ND	10.4	8.36	81		8.07	80		75-125	4	20
Vanadium, Total	9.10	43.2	47.1	88		45.2	86		75-125	4	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

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: WG1121501-3 WG1121501-4 QC Sample: L1819539-07 Client ID: MS Sample									
Zinc, Total	46.9	43.2	79.8	76	78.2	74	Q 75-125	2	20

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1819490

Report Date: 06/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1120927-4 QC Sample: L1819249-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-01
Client ID: SB01_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:00
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	0.47	J	mg/kg	1.0	0.22	1	05/29/18 14:45	05/30/18 13:32	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-02
Client ID: SB01_6-7
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:05
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/29/18 14:45	05/30/18 13:35	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.948	0.190	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-03
Client ID: SB02_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:50
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/29/18 14:45	05/30/18 13:36	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.890	0.178	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-04
Client ID: SB02_4.5-5.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 12:55
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.6		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	3.3		mg/kg	1.1	0.22	1	05/29/18 14:45	05/30/18 13:37	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.934	0.187	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-05
Client ID: SB02_11-12
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 13:10
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.22	1	05/29/18 14:45	05/30/18 13:38	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.886	0.177	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-06
Client ID: SB05_0.5-1.5
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:35
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.8		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/29/18 14:45	05/30/18 13:42	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.943	0.189	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

SAMPLE RESULTS

Lab ID: L1819490-07
Client ID: SB05_5-6
Sample Location: 268 W. 96TH STREET

Date Collected: 05/25/18 11:30
Date Received: 05/25/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	05/29/18 23:56	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.22	1	05/29/18 14:45	05/30/18 13:43	1,9010C/9012B	ML
Chromium, Hexavalent	ND		mg/kg	0.879	0.176	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH



Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1120111-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	05/29/18 14:45	05/30/18 13:23	1,9010C/9012B	ML
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG1120458-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/30/18 03:40	05/30/18 14:40	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819490

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1120111-2 WG1120111-3								
Cyanide, Total	48	Q	71	Q	80-120	44	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG1120458-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Lab Number: L1819490

Project Number: 170432001

Report Date: 06/04/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1120111-4 WG1120111-5 QC Sample: L1819490-05 Client ID: SB02_11-12												
Cyanide, Total	ND	10	9.4	92		9.1	90		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1120458-4 QC Sample: L1819490-05 Client ID: SB02_11-12												
Chromium, Hexavalent	ND	761	828	109		-	-		75-125	-		20

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1819490

Report Date: 06/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1120408-1 QC Sample: L1819539-05 Client ID: DUP Sample						
Solids, Total	88.0	87.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1120458-6 QC Sample: L1819490-05 Client ID: SB02_11-12						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Serial_No: 06041817:39
Lab Number: L1819490
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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(*)
L1819490-01A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-01B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-01C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-01D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1819490-01F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-01G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-02A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-02B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-02C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-02D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1819490-02F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-02G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-03A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-03B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-03C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Serial_No: 06041817:39
Lab Number: L1819490
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1819490-03D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1819490-03F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-03G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-04A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-04B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-04C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-04D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1819490-04F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-04G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-05A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-05B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-05C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-05D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-Ti(180),AS-Ti(180),BA-Ti(180),AG-Ti(180),AL-Ti(180),CR-Ti(180),NI-Ti(180),TL-Ti(180),CU-Ti(180),PB-Ti(180),SB-Ti(180),SE-Ti(180),ZN-Ti(180),CO-Ti(180),V-Ti(180),FE-Ti(180),HG-T(28),MG-Ti(180),MN-Ti(180),CA-Ti(180),CD-Ti(180),K-Ti(180),NA-Ti(180)
L1819490-05F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-05G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-06A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)

Project Name: 266-270 W. 96TH STREET
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Serial_No: 06041817:39
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1819490-06B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-06C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-06D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1819490-06F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-06G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-07A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L1819490-07B	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-07C	Vial water preserved	A	NA		3.6	Y	Absent	26-MAY-18 07:30	NYTCL-8260HLW(14)
L1819490-07D	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L1819490-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1819490-07F	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-07G	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1819490-08A	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L1819490-08B	Vial HCl preserved	A	NA		3.6	Y	Absent		NYTCL-8260(14)

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

GLOSSARY

Acronyms

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).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

Data Qualifiers

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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- 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).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819490
Report Date: 06/04/18

REFERENCES

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

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: m/p-xylene, o-xylene

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

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

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

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

Mansfield Facility

SM 2540D: TSS

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

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,

EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



ANALYTICAL REPORT

Lab Number:	L1819535
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Kimberly Del Col
Phone:	(212) 479-5486
Project Name:	266-270 W. 96TH STREET
Project Number:	170432001
Report Date:	06/04/18

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1819535-01	SV02_052518	SOIL_VAPOR	MANHATTAN, NY	05/25/18 12:22	05/25/18
L1819535-02	SV01_052518	SOIL_VAPOR	MANHATTAN, NY	05/25/18 12:24	05/25/18
L1819535-03	UNUSED CAN #1692	SOIL_VAPOR	MANHATTAN, NY		05/25/18

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 25, 2018. The canister certification results are provided as an addendum.

L1819535-01 and -02: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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: 06/04/18

AIR

Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1819535**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-01 D
 Client ID: SV02_052518
 Sample Location: MANHATTAN, NY

Date Collected: 05/25/18 12:22
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 06/02/18 03:09
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.500	--	ND	2.47	--		2.5
Chloromethane	ND	0.500	--	ND	1.03	--		2.5
Freon-114	ND	0.500	--	ND	3.49	--		2.5
Vinyl chloride	ND	0.500	--	ND	1.28	--		2.5
1,3-Butadiene	1.91	0.500	--	4.23	1.11	--		2.5
Bromomethane	ND	0.500	--	ND	1.94	--		2.5
Chloroethane	ND	0.500	--	ND	1.32	--		2.5
Ethanol	ND	12.5	--	ND	23.6	--		2.5
Vinyl bromide	ND	0.500	--	ND	2.19	--		2.5
Acetone	19.7	2.50	--	46.8	5.94	--		2.5
Trichlorofluoromethane	ND	0.500	--	ND	2.81	--		2.5
Isopropanol	ND	1.25	--	ND	3.07	--		2.5
1,1-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
Tertiary butyl Alcohol	ND	1.25	--	ND	3.79	--		2.5
Methylene chloride	ND	1.25	--	ND	4.34	--		2.5
3-Chloropropene	ND	0.500	--	ND	1.57	--		2.5
Carbon disulfide	1.78	0.500	--	5.54	1.56	--		2.5
Freon-113	ND	0.500	--	ND	3.83	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
Methyl tert butyl ether	ND	0.500	--	ND	1.80	--		2.5
2-Butanone	2.62	1.25	--	7.73	3.69	--		2.5
cis-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-01 D

Date Collected: 05/25/18 12:22

Client ID: SV02_052518

Date Received: 05/25/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.25	--	ND	4.50	--		2.5
Chloroform	ND	0.500	--	ND	2.44	--		2.5
Tetrahydrofuran	ND	1.25	--	ND	3.69	--		2.5
1,2-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
n-Hexane	2.54	0.500	--	8.95	1.76	--		2.5
1,1,1-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Benzene	2.62	0.500	--	8.37	1.60	--		2.5
Carbon tetrachloride	ND	0.500	--	ND	3.15	--		2.5
Cyclohexane	ND	0.500	--	ND	1.72	--		2.5
1,2-Dichloropropane	ND	0.500	--	ND	2.31	--		2.5
Bromodichloromethane	ND	0.500	--	ND	3.35	--		2.5
1,4-Dioxane	ND	0.500	--	ND	1.80	--		2.5
Trichloroethene	5.92	0.500	--	31.8	2.69	--		2.5
2,2,4-Trimethylpentane	0.855	0.500	--	3.99	2.34	--		2.5
Heptane	3.18	0.500	--	13.0	2.05	--		2.5
cis-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
4-Methyl-2-pentanone	ND	1.25	--	ND	5.12	--		2.5
trans-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
1,1,2-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Toluene	4.22	0.500	--	15.9	1.88	--		2.5
2-Hexanone	ND	0.500	--	ND	2.05	--		2.5
Dibromochloromethane	ND	0.500	--	ND	4.26	--		2.5
1,2-Dibromoethane	ND	0.500	--	ND	3.84	--		2.5
Tetrachloroethene	39.7	0.500	--	269	3.39	--		2.5
Chlorobenzene	ND	0.500	--	ND	2.30	--		2.5
Ethylbenzene	88.4	0.500	--	384	2.17	--		2.5



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-01 D

Date Collected: 05/25/18 12:22

Client ID: SV02_052518

Date Received: 05/25/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	249	1.00	--	1080	4.34	--		2.5
Bromoform	ND	0.500	--	ND	5.17	--		2.5
Styrene	2.94	0.500	--	12.5	2.13	--		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	--	ND	3.43	--		2.5
o-Xylene	87.9	0.500	--	382	2.17	--		2.5
4-Ethyltoluene	0.972	0.500	--	4.78	2.46	--		2.5
1,3,5-Trimethylbenzene	2.00	0.500	--	9.83	2.46	--		2.5
1,2,4-Trimethylbenzene	3.32	0.500	--	16.3	2.46	--		2.5
Benzyl chloride	ND	0.500	--	ND	2.59	--		2.5
1,3-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,4-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		2.5
Hexachlorobutadiene	ND	0.500	--	ND	5.33	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	102		60-140



Project Name: 266-270 W. 96TH STREET**Project Number:** 170432001**Lab Number:** L1819535**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-02 D

Client ID: SV01_052518

Sample Location: MANHATTAN, NY

Date Collected: 05/25/18 12:24

Date Received: 05/25/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15

Analytical Date: 06/02/18 03:45

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	1.10	0.400	--	5.44	1.98	--		2
Chloromethane	ND	0.400	--	ND	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	1.62	0.400	--	3.58	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	ND	10.0	--	ND	18.8	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	10.5	2.00	--	24.9	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Tertiary butyl Alcohol	ND	1.00	--	ND	3.03	--		2
Methylene chloride	ND	1.00	--	ND	3.47	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	1.02	0.400	--	3.18	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
2-Butanone	1.70	1.00	--	5.01	2.95	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-02 D

Date Collected: 05/25/18 12:24

Client ID: SV01_052518

Date Received: 05/25/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	1.00	--	ND	3.60	--		2
Chloroform	10.8	0.400	--	52.7	1.95	--		2
Tetrahydrofuran	ND	1.00	--	ND	2.95	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	4.55	0.400	--	16.0	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	0.890	0.400	--	2.84	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	ND	0.400	--	ND	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	2.01	0.400	--	10.8	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	3.29	0.400	--	13.5	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	ND	1.00	--	ND	4.10	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	1.93	0.400	--	7.27	1.51	--		2
2-Hexanone	ND	0.400	--	ND	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	26.3	0.400	--	178	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	77.9	0.400	--	338	1.74	--		2



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18**SAMPLE RESULTS**

Lab ID: L1819535-02 D

Date Collected: 05/25/18 12:24

Client ID: SV01_052518

Date Received: 05/25/18

Sample Location: MANHATTAN, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	183	0.800	--	795	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2
Styrene	2.19	0.400	--	9.32	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	65.6	0.400	--	285	1.74	--		2
4-Ethyltoluene	ND	0.400	--	ND	1.97	--		2
1,3,5-Trimethylbenzene	0.562	0.400	--	2.76	1.97	--		2
1,2,4-Trimethylbenzene	1.10	0.400	--	5.41	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	120		60-140



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15**Analytical Date:** 06/01/18 15:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121664-4								
Propylene	ND	0.500	--	ND	0.861	--		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
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
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 266-270 W. 96TH STREET

Lab Number: L1819535

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/01/18 15:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121664-4								
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	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



Project Name: 266-270 W. 96TH STREET

Lab Number: L1819535

Project Number: 170432001

Report Date: 06/04/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/01/18 15:15

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1121664-4								
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
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: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121664-3								
Chlorodifluoromethane	89		-		70-130	-		
Propylene	121		-		70-130	-		
Propane	83		-		70-130	-		
Dichlorodifluoromethane	101		-		70-130	-		
Chloromethane	99		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	102		-		70-130	-		
Methanol	83		-		70-130	-		
Vinyl chloride	96		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Butane	95		-		70-130	-		
Bromomethane	97		-		70-130	-		
Chloroethane	88		-		70-130	-		
Ethyl Alcohol	87		-		70-130	-		
Dichlorofluoromethane	93		-		70-130	-		
Vinyl bromide	101		-		70-130	-		
Acrolein	84		-		70-130	-		
Acetone	82		-		70-130	-		
Acetonitrile	89		-		70-130	-		
Trichlorofluoromethane	100		-		70-130	-		
iso-Propyl Alcohol	79		-		70-130	-		
Acrylonitrile	87		-		70-130	-		
Pentane	87		-		70-130	-		
Ethyl ether	91		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121664-3								
1,1-Dichloroethene	94		-		70-130	-		
tert-Butyl Alcohol	79		-		70-130	-		
Methylene chloride	98		-		70-130	-		
3-Chloropropene	105		-		70-130	-		
Carbon disulfide	96		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	102		-		70-130	-		
trans-1,2-Dichloroethene	94		-		70-130	-		
1,1-Dichloroethane	91		-		70-130	-		
Methyl tert butyl ether	94		-		70-130	-		
Vinyl acetate	89		-		70-130	-		
2-Butanone	99		-		70-130	-		
cis-1,2-Dichloroethene	93		-		70-130	-		
Ethyl Acetate	108		-		70-130	-		
Chloroform	101		-		70-130	-		
Tetrahydrofuran	107		-		70-130	-		
2,2-Dichloropropane	92		-		70-130	-		
1,2-Dichloroethane	100		-		70-130	-		
n-Hexane	96		-		70-130	-		
Isopropyl Ether	89		-		70-130	-		
Ethyl-Tert-Butyl-Ether	84		-		70-130	-		
1,1,1-Trichloroethane	98		-		70-130	-		
1,1-Dichloropropene	91		-		70-130	-		
Benzene	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121664-3								
Carbon tetrachloride	101		-		70-130	-		
Cyclohexane	96		-		70-130	-		
Tertiary-Amyl Methyl Ether	81		-		70-130	-		
Dibromomethane	87		-		70-130	-		
1,2-Dichloropropane	93		-		70-130	-		
Bromodichloromethane	100		-		70-130	-		
1,4-Dioxane	100		-		70-130	-		
Trichloroethene	93		-		70-130	-		
2,2,4-Trimethylpentane	100		-		70-130	-		
Methyl Methacrylate	82		-		70-130	-		
Heptane	102		-		70-130	-		
cis-1,3-Dichloropropene	98		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	85		-		70-130	-		
1,1,2-Trichloroethane	93		-		70-130	-		
Toluene	95		-		70-130	-		
1,3-Dichloropropane	87		-		70-130	-		
2-Hexanone	101		-		70-130	-		
Dibromochloromethane	108		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		
Butyl Acetate	92		-		70-130	-		
Octane	90		-		70-130	-		
Tetrachloroethene	92		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121664-3								
1,1,1,2-Tetrachloroethane	93		-		70-130	-		
Chlorobenzene	94		-		70-130	-		
Ethylbenzene	100		-		70-130	-		
p/m-Xylene	99		-		70-130	-		
Bromoform	108		-		70-130	-		
Styrene	98		-		70-130	-		
1,1,2,2-Tetrachloroethane	100		-		70-130	-		
o-Xylene	102		-		70-130	-		
1,2,3-Trichloropropane	89		-		70-130	-		
Nonane (C9)	94		-		70-130	-		
Isopropylbenzene	97		-		70-130	-		
Bromobenzene	90		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	94		-		70-130	-		
p-Chlorotoluene	92		-		70-130	-		
4-Ethyltoluene	105		-		70-130	-		
1,3,5-Trimethylbenzene	105		-		70-130	-		
tert-Butylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
Decane (C10)	99		-		70-130	-		
Benzyl chloride	116		-		70-130	-		
1,3-Dichlorobenzene	101		-		70-130	-		
1,4-Dichlorobenzene	102		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1121664-3								
sec-Butylbenzene	97		-		70-130	-		
p-Isopropyltoluene	94		-		70-130	-		
1,2-Dichlorobenzene	101		-		70-130	-		
n-Butylbenzene	104		-		70-130	-		
1,2-Dibromo-3-chloropropane	97		-		70-130	-		
Undecane	100		-		70-130	-		
Dodecane (C12)	102		-		70-130	-		
1,2,4-Trichlorobenzene	102		-		70-130	-		
Naphthalene	96		-		70-130	-		
1,2,3-Trichlorobenzene	96		-		70-130	-		
Hexachlorobutadiene	102		-		70-130	-		

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1819535

Report Date: 06/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1121664-5 QC Sample: L1819540-02 Client ID: DUP Sample						
Dichlorodifluoromethane	0.455	0.450	ppbV	1		25
Chloromethane	0.568	0.582	ppbV	2		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	53.5	53.7	ppbV	0		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	16.7	16.6	ppbV	1		25
Trichlorofluoromethane	0.233	0.237	ppbV	2		25
iso-Propyl Alcohol	3.88	3.84	ppbV	1		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	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
2-Butanone	0.763	0.725	ppbV	5		25
Ethyl Acetate	0.830	0.866	ppbV	4		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1121664-5 QC Sample: L1819540-02 Client ID: DUP Sample						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.451	0.442	ppbV	2		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	0.322	0.313	ppbV	3		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		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
Toluene	0.874	0.894	ppbV	2		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis Batch Quality Control

Project Name: 266-270 W. 96TH STREET

Project Number: 170432001

Lab Number: L1819535

Report Date: 06/04/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG1121664-5 QC Sample: L1819540-02 Client ID: DUP Sample						
p/m-Xylene	0.482	0.489	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	0.258	0.268	ppbV	4		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		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: 266-270 W. 96TH STREET

Serial_No:06041815:24
Lab Number: L1819535

Project Number: 170432001

Report Date: 06/04/18

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1819535-01	SV02_052518	0159	Flow 3	05/25/18	266428		-	-	-	Pass	40.0	39.0	3
L1819535-01	SV02_052518	2441	6.0L Can	05/25/18	266428	L1818680-02	Pass	-30.0	-6.1	-	-	-	-
L1819535-02	SV01_052518	0275	Flow 3	05/25/18	266428		-	-	-	Pass	40.0	39.1	2
L1819535-02	SV01_052518	1863	6.0L Can	05/25/18	266428	L1818680-02	Pass	-30.0	-6.2	-	-	-	-
L1819535-03	UNUSED CAN #1692	0934	Flow 3	05/25/18	266428		-	-	-	Pass	40.0	40.0	0
L1819535-03	UNUSED CAN #1692	1692	6.0L Can	05/25/18	266428	L1818680-02	Pass	-29.2	-29.2	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 05/22/18 16:15
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
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
1,1,1-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
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
1,1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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:** L1818680**Project Number:** CANISTER QC BAT**Report Date:** 06/04/18**Air Canister Certification Results**

Lab ID: L1818680-02

Date Collected: 05/22/18 08:30

Client ID: CAN 2251 SHELF 57

Date Received: 05/22/18

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	85		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	84		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/22/18 16:15
Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
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Air Canister Certification Results

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Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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: L1818680
Report Date: 06/04/18

Air Canister Certification Results

Lab ID: L1818680-02
Client ID: CAN 2251 SHELF 57
Sample Location:

Date Collected: 05/22/18 08:30
Date Received: 05/22/18
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	89		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140



Project Name: 266-270 W. 96TH STREET**Lab Number:** L1819535**Project Number:** 170432001**Report Date:** 06/04/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

N/A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1819535-01A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1819535-02A	Canister - 6 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1819535-03A	Canister - 6 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

GLOSSARY

Acronyms

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).
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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

Data Qualifiers

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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 266-270 W. 96TH STREET
Project Number: 170432001

Lab Number: L1819535
Report Date: 06/04/18

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **11**

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Certification Information

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

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624:** Volatile Halocarbons & Aromatics,**EPA 608:** 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:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, 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, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

