E3 – Impact Waste Characterization Report, Dated July 30, 2019

July 30, 2019

Mr. Andrew Esposito
Barone Management LLC
511 Canal Street, Suite 500
New York, NY 10013

RE: **Waste Characterization Report**
1660 Boone Avenue
Bronx, NY 10460
Block 3015, Lot 1
OER Project Number: 19TMP1488X

Dear Andrew,

Impact Environmental Closures, Inc. ("IEC") is pleased to present Barone Management LLC (the "Client") the following Waste Characterization Report (WCR) prepared for the soils located at 1660 Boone Ave in the Bronx, New York (the "Site"). The scope of this work included physical characterization of the soil, and collection and laboratory analysis of soil samples. The scope was conducted for the purpose of: 1) providing analytical chemical data and physical waste characterization to assist in evaluating options for off-Site transportation and disposal of excess soil/fill generated during Site redevelopment; and 2) providing a data package for use in submittal to selected disposal facilities for approval.

The waste characterization services performed at the Site were based upon industry standard disposal facility acceptance criteria. According to site and development construction plans provided by the Client, excavation will be within the footprint of the new building and advanced to bedrock for installation of foundational structures, a cellar area in the southern portion of the site and for the building elevator pits. The site currently is in the city's E-Designation program with Air, Noise and Hazmat restrictions (E-277). A Phase I Environmental Site Assessment (ESA) dated December 18, 2018 was prepared by Equity Environmental Engineering. A Phase II/Remedial Investigation Report was prepared by IEC in July of 2019.

These reports should be reviewed in conjunction with this Waste Characterization Report in determining compliance with disposal facility criteria.

This waste characterization study targets soil/fill onsite within the proposed building footprint (grids WC-1 to WC-4, grade surface to anticipated bedrock). It is understood that the proposed building will cover the entire footprint of the site. Soil boring and waste characterization grid locations as well as the proposed building footprint are depicted in **Figures 1 and 2**.

1 SITE DESCRIPTION

The site is located at the intersection of 173rd Street and Boone Avenue in the Bronx, New York. It is mostly surrounded by commercial properties (warehouses, automotive garages etc) with some residential housing in the area as well. The site occupies 10,906 square feet and is developed with a three-story commercial building currently housing a plumbing supplier. The ground surface within the Site is generally flat, however there is approximately a ten-foot change in grade of the sidewalk along 173rd Street, from Boone Avenue. Ground cover consists primarily of the building, asphalt paved driveway and a sidewalk.

The Site is situated at the corner of East 173rd Street and Boone Avenue and is adjacent a New York City (NYC) Sanitation garage. The development project consists of a new 6-story, charter school building. The proposed development will cover the site to the boundary and include a cellar level occupying the southern half of the property. In the north eastern corner of site there will be an open yard area, consisting of a concrete slab on grade. Permanent concrete planters will be installed along the proposed building entrance at the south west corner of the Site on the foundation roof slab of the cellar.

Construction of the proposed building's cellar level and foundation elements will require excavation to depths of approximately 15 feet below grade surface (bgs). The elevator pit will require another 6 feet beyond that, being the deepest part of the excavation at 21 feet bgs.

2 WASTE CHARACTERIZATION SOIL SAMPLING

IEC performed in-situ waste characterization sampling on July 15, 2019, concurrently with the Phase II/Remedial Investigation drilling. The proposed building footprint was first divided into three horizontal waste characterization grids, identified as WC-1 through WC-3, with WC-2 and WC-3 covering the proposed cellar area of the development, and WC-1 covering the non-cellar area of the building footprint.

The celler area of the development was further divided vertically with a bottom interval grid, WC-4, covering the soils beneath WC-2 and WC-3. Thus WC-1, WC-2 and WC-3 consist of the upper vertical interval from grade surface to 8' bgs, while WC-4 consists of the lower vertical interval from 8' to 15' bgs.

Excavation is expected to reach approximately 6' bgs in the non-cellar area of the new building and 15' bgs in the cellar area. The elevator pit being the deepest part of the excavation at 21' bgs.

A total of seven (7) soil borings were advanced throughout the Site. The borings were advanced to bedrock or the bottom of the proposed excavation, whichever was encountered first. The exception to this was the SB-7 location where refusal was encountered in the first two feet of boring. Despite several attempts to relocate the boring, target depth was not able to be achieved. It is likely a boulder or rock shelf is present in the area. Soil boring and waste characterization grid locations are depicted in **Figures 1 and 2.** Groundwater was not encountered in any of the borings prior to refusal or target depth. Soil Boring Logs are provided in **Exhibit B.**

At each waste characterization grid and interval, one discrete sample was collected based on field screening (visual, olfactory and instrumental screening using a photo-ionization detector, PID) and was submitted for certified laboratory analysis for volatile organic compounds (VOCs) using USEPA Method 8260. In addition, a 5-point composite sample was collected at each waste characterization grid and interval. The composite samples were submitted for certified laboratory analysis for Semi-Volatile Organic Compounds (SVOCs) using USEPA Test Method 8270, Pesticides & PCBs using USEPA Test Method 8081/8082, Herbicides using USEPA Test Method 8051, Total Metals using USEPA Test Method 6010, Extractable Petroleum Hydrocarbons (EPH), pH and Toxicity Characteristic Leaching Procedure (TCLP) Metals using USEPA Test Method 3005A & 6010. All samples were stored in laboratory-provided

containers before transferring to laboratory personnel under strict chain of custody protocol. All samples collected were delivered to Alpha Analytical Laboratories (Alpha) of Westborough, MA, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11148).

A total of four (4) waste characterization sample sets (1 composite and 1 grab sample per set) were collected and submitted for certified laboratory analysis. The samples were identified as follows:

WC-1 Comp	**WC-2 Comp**	**WC-3 Comp**	**WC-4 Comp**
WC-1 Grab	**WC-2 Grab**	**WC-3 Grab**	**WC-4 Grab**

3 FIELD OBSERVATIONS AND ANALYTICAL RESULTS

Subsurface soil at the Site consisted of urban fill, which was primarily comprised of brick, and gravel in a brown medium-grained sand matrix. Urban fill was encountered at a depth interval from grade to 15 feet bgs throughout the majority of the Site. Native like brown medium- to fine-grained silty sand with elements of clay was generally encountered in the deeper borings. Bedrock was encountered underlying the fill layer at varying depths from 4 to 15 feet bgs. This variation is typical of the region, with numerous rock shelfs, outcrops and boulders in the soils around. No PID and olfactory responses were recorded during excavation of the test pits. A photographic log is provided as **Exhibit A.**

Waste characterization sample results are compared against 6 NYCRR Part 375 Unrestricted Use, Residential, Restricted-Residential and Restricted-Commercial Soil Cleanup Objectives, the New Jersey Residential and Non-Residential Direct Contact Soil Remediation Standards, the New Jersey Default Impact to Groundwater Soil Screening Levels, the Doremus Avenue Redevelopment Project acceptance criteria, Pennsylvania Clean Fill Limits, and finally the Pennsylvania Regulated Fill Limits.

Material in the WC-1 grid, was observed to exceed the NY UUSCOs for Acetone (a common laboratory solvent and possible artifact). There were also exceedances for the NJ Default IGW SSL and the NJ NRDCSRS for some metals**.**

Material in the WC-2 grid, was observed to exceed the NY UUSCOs for Acetone (a common laboratory solvent and possible artifact) and the metals; Mercury and Zinc. There were also exceedances for the NJ Default IGW SSL and the NJ NRDCSRS for some metals**.**

Material in the WC-3 grid, was observed to exceed the NY UUSCOs for Acetone (a common laboratory solvent and possible artifact) and the metals; Lead, Mercury and Zinc. There were also exceedances for the NJ Default IGW SSL and the NJ NRDCSRS for some metals**.** Benzo-a-Pyrene was above the NJ Default IGW SSL criteria as well.

Material in the WC-4 grid, was observed to exceed the NY UUSCOs for Acetone (a common laboratory solvent and possible artifact) and the metal Zinc. There were also exceedances for the NJ Default IGW SSL and the NJ NRDCSRS for some metals**.** Benzene was above the NJ Default IGW SSL criteria as well.

None of the TCLP results for the RCRA 8 Metals were above the hazardous waste toxicity characteristic level for any of the grids.

Analytical results summary comparison is included in **Table 1** and **Table 2**. The final deliverable laboratory reports are attached in **Exhibit C.**

4 SOIL/FILL WASTE RECOMMENDATIONS

The excavated fill generated from the Site should be segregated by grid and legally transported and disposed or beneficially reused at facilities permitted to accept the physical and chemical characteristics of each grid and layer, in accordance with state and federal solid waste regulations.

Best regards,

IMPACT ENVIRONMENTAL CLOSURES, INC.

Rob Dwyer
Environmental Engineer

TABLES:

FIGURES:

EXHIBITS

TABLES

Table 1: Waste Characterization - Soil Analysis
Location: 1660 Boone Ave
Bronx, NY
IEC #: 13747

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Residential	NJ Default IGW SSL	NJ RDCSRS 2017	NJ NRDCSRS 2017	Doremus Ave. Redev. Project Acceptance Criteria	PA Clean Fill Standards	PA WMGR096 Regulated Fill Limits	WC-1 COMP	WC-1 GRAB	WC-2 COMP	WC-2 GRAB	WC-3 COMP	WC-3 GRAB	WC-4 COMP	WC-4 GRAB
		Depth									*0-8' bgs*	*3' bgs*	*0-8' bgs*	*5.5' bgs*	*0-8' bgs*	*4' bgs*	*8-15' bgs*	*14' bgs*
		Date									*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*
		Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
630-20-6	1,1,1,2-Tetrachloroethane	VOC	NA	NA	NA	NA	NA	NA	18000	18000	-	ND	-	ND	-	ND	-	ND
71-55-6	1,1,1-Trichloroethane	VOC	680	100,000a	300	160000000	NA	300	7200	7200	-	ND	-	ND	-	ND	-	ND
79-34-5	1,1,2,2-Tetrachloroethane	VOC	NA	35000	7	1000	3000	7	9.3	9.3	-	ND	-	ND	-	ND	-	ND
79-00-5	1,1,2-Trichloroethane	VOC	NA	NA	20	2000	6000	20	150	150	-	ND	-	ND	-	ND	-	ND
76-13-1	1,1,2 Trichloro-1,2,2 Trifluoroethane	VOC	NA	100000	NA	NA	NA	NA	26000000	53000000	-	ND	-	ND	-	ND	-	ND
75-34-3	1,1-Dichloroethane	VOC	270	19000	200	8000	24000	200	650	2700	-	ND	-	ND	-	ND	-	ND
75-35-4	1,1-Dichloroethene	VOC	330	100,000a	8	11000	150000	8	190	190	-	ND	-	ND	-	ND	-	ND
96-18-4	1,2,3-Trichloropropane	VOC	NA	80000	NA	NA	NA	NA	1600	820	-	ND	-	ND	-	ND	-	ND
120-82-1	1,2,4-Trichlorobenzene	VOC	NA	NA	700	73000	820000	73000	27000	27000	ND	-	ND	-	ND	-	ND	-
95-63-6	1,2,4-Trimethylbenzene	VOC	3,600	47000	NA	NA	NA	NA	9000	20000	-	0.43J	-	0.53J	-	0.72J	-	2800
96-12-8	1,2-Dibromo-3-Chloropropane	VOC	NA	NA	5	80	200	5	9.2	9.2	-	ND	-	ND	-	ND	-	ND
106-93-4	1,2-Dibromoethane	VOC	NA	NA	5	8	40	5	1.2	1.2	-	ND	-	ND	-	ND	-	ND
95-50-1	1,2-Dichlorobenzene	VOC	1,100	100,000a	17000	5300000	59000000	17000	59000	59000	-	ND	-	ND	-	ND	-	ND
107-06-2	1,2-Dichloroethane	VOC	20c	2300	5	900	3000	5	100	100	-	ND	-	ND	-	ND	-	ND
78-87-5	1,2-Dichloropropane	VOC	NA	NA	5	2000	5000	5	110	110	-	ND	-	ND	-	ND	-	ND
108-67-8	1,3,5-Trimethylbenzene	VOC	8,400	47000	NA	NA	NA	NA	2800	6200	-	ND	-	ND	-	ND	-	21J
541-73-1	1,3-Dichlorobenzene	VOC	2,400	17000	1900	5300000	59000000	19000	61000	61000	-	ND	-	ND	-	ND	-	ND
142-28-9	1,3-Dichloropropane	VOC	NA	NA	NA	NA	NA	NA	NA	NA	-	ND	-	ND	-	ND	-	ND
542-75-6	1,3-Dichloropropene(cis and trans)	VOC	NA	NA	5	2	7000	2000	120	460	-	ND	-	ND	-	ND	-	ND
106-46-7	1,4-Dichlorobenzene	VOC	1,800	9800	2000	5000	13000	2000	10000	10000	-	ND	-	ND	-	ND	-	ND
123-91-1	1,4-Dioxane	VOC	100b	9800	NA	NA	NA	NA	73	310	-	ND	-	ND	-	ND	-	ND
78-93-3	2-Butanone	VOC	120	100,000a	900	3100000	44000000	900	54000	110000	-	ND	-	ND	-	14	-	ND
95-49-8	2-Chlorotoluene	VOC	NA	NA	NA	NA	NA	NA	20000	20000	-	ND	-	ND	-	ND	-	ND
108-10-1	4-Methyl-2-Pentanone	VOC	NA	NA	NA	NA	NA	NA	2900	6300	-	ND	-	ND	-	ND	-	ND
67-64-1	Acetone	VOC	50	100,000a	19000	70000000	NA	19000	41000	110000	-	100	-	110	-	260	-	ND
107-02-8	Acrolein	VOC	NA	NA	500	500	1000	500	0.62	1.4	-	ND	-	ND	-	ND	-	ND
107-13-1	Acrylonitrile	VOC	NA	NA	500	900	3000	500	8.7	37	-	ND	-	ND	-	ND	-	ND
71-43-2	Benzene	VOC	60	2900	5	2000	5000	5	130	130	-	ND	-	0.31	-	0.94	-	28J
74-97-5	Bromochloromethane	VOC	NA	NA	NA	NA	NA	NA	1600	1600	-	ND	-	ND	-	ND	-	ND
75-27-4	Bromodichloromethane	VOC	NA	NA	5	1000	3000	5	3400	3400	-	ND	-	ND	-	ND	-	ND
75-25-2	Bromoform	VOC	NA	NA	30	81000	280000	30	4400	4400	-	ND	-	ND	-	ND	-	ND
74-83-9	Bromomethane	VOC	NA	NA	40	25000	59000	40	540	540	-	ND	-	ND	-	ND	-	ND
75-15-0	Carbon Disulfide	VOC	NA	100000	6000	7800000	110000000	6000	160000	350000	-	ND	-	ND	-	ND	-	ND
56-23-5	Carbon Tetrachloride	VOC	760	1400	5	2000	4000	5	260	260	-	ND	-	ND	-	ND	-	ND
108-90-7	Chlorobenzene	VOC	1,100	100,000a	600	510000	7400000	600	6100	6100	-	ND	-	ND	-	ND	-	ND
124-48-1	Chlorodibromomethane	VOC	NA	NA	5	3000	8000	5	3200	3200	-	ND	-	ND	-	ND	-	ND
75-00-3	Chloroethane	VOC	NA	100000	NA	220000	1100000	220000	5000	19000	-	ND	-	ND	-	ND	-	ND
67-66-3	Chloroform	VOC	370	10000	400	600	2000	400	2500	2500	-	ND	-	ND	-	ND	-	ND
74-87-3	Chloromethane	VOC	NA	NA	NA	4000	12000	4000	38	38	-	ND	-	ND	-	ND	-	ND
156-59-2	cis-1,2-Dichloroethene	VOC	250	59000	300	230000	560000	300	1600	1600	-	ND	-	ND	-	ND	-	ND
74-95-3	Dibromomethane	VOC	NA	NA	NA	NA	NA	NA	3700	7700	-	ND	-	ND	-	ND	-	ND
75-71-8	Dichlorodifluoromethane	VOC	NA	NA	39000	490000	230000000	39000	100000	100000	-	ND	-	ND	-	ND	-	ND
100-41-4	Ethylbenzene	VOC	1,000	30000	13000	7800000	110000000	13000	46000	46000	-	0.45J	-	0.67J	-	1.1J	-	950
98-82-8	Isopropylbenzene	VOC	NA	100000	NA	NA	NA	NA	780000	780000	-	ND	-	ND	-	ND	-	130
79-20-9	Methyl Acetate	VOC	NA	NA	22000	78000000	NA	22000	690000	1900000	-	28	-	30	-	ND	-	120J
75-09-2	Methylene Chloride	VOC	50	51000	10	46000	230000	10	76	76	-	ND	-	ND	-	ND	-	ND
1634-04-4	Methyl Tert-Butyl Ether	VOC	930	62000	200	110000	320000	200	280	280	-	0.57J	-	0.6J	-	0.62J	-	ND
104-51-8	n-Butylbenzene	VOC	12,000	100,000a	NA	NA	NA	NA	950000	2600000	-	ND	-	ND	-	ND	-	150
103-65-1	n-Propylbenzene	VOC	3,900	100,000a	NA	NA	NA	NA	290000	290000	-	ND	-	ND	-	ND	-	300
99-87-6	p-Isopropyltoluene	VOC	NA	NA	NA	NA	NA	NA	NA	NA	-	ND	-	ND	-	ND	-	81
135-98-8	sec-Butylbenzene	VOC	11,000	100,000a	NA	NA	NA	NA	350000	960000	-	ND	-	ND	-	ND	-	63J
100-42-5	Styrene	VOC	NA	NA	3000	90000	260000	3000	24000	24000	-	ND	-	ND	-	ND	-	ND
98-06-6	tert-Butylbenzene	VOC	5,900	100,000a	NA	NA	NA	NA	270000	740000	-	ND	-	ND	-	ND	-	12J
75-65-0	Tertiary Butyl Alcohol	VOC	NA	NA	300	1400000	11000000	300	NA	NA	-	61	-	73	-	69	-	ND
127-18-4	Tetrachloroethene	VOC	1,300	5500	5	43000	1500000	5	430	430	-	1.6	-	4.4	-	0.85	-	ND
108-88-3	Toluene	VOC	700	100,000a	7000	6300000	91000000	7000	44000	44000	-	0.73J	-	0.98J	-	22	-	ND
1330-20-7	Total Xylenes	VOC	260	100,000a	19000	12000000	170000000	19000	990000	990000	-	ND	-	ND	-	1.1J CAL	-	66J CAL
156-60-5	trans-1,2-Dichloroethene	VOC	190	100,000a	600	300000	720000	600	2300	2300	-	ND	-	ND	-	ND	-	ND
79-01-6	Trichloroethene	VOC	470	10000	10	3000	10000	10	170	170	-	ND	-	ND	-	ND	-	ND
75-69-4	Trichlorofluoromethane	VOC	NA	NA	34000	23000000	340000000	34000	87000	87000	-	ND	-	ND	-	ND	-	ND
108-05-4	Vinyl Acetate	VOC	NA	NA	NA	NA	NA	NA	6500	14000	-	ND	-	ND	-	ND	-	ND
75-01-4	Vinyl Chloride	VOC	20	210	5	700	2000	5	30	27	-	ND	-	ND	-	ND	-	ND

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Bronx, NY
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		Depth									*0-8' bgs*	*3' bgs*	*0-8' bgs*	*5.5' bgs*	*0-8' bgs*	*4' bgs*	*8-15' bgs*	*14' bgs*
		Date									*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*
		Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
87-68-3	Hexachlorobutadiene	SVOC	NA	NA	900	6000	25000	6000	1200	1200	ND	-	ND	-	ND	-	ND	-
92-52-4	1-1- Biphenyl	SVOC	NA	NA	140000	61000	240000	61000	790000	2200000	ND	-	ND	-	ND	-	ND	-
122-66-7	1,2- Diphenylhydrazine	SVOC	NA	NA	700	700	2000	700	150	580	ND	-	ND	-	ND	-	ND	-
95-95-4	2,4,5-Trichlorophenol	SVOC	NA	100000	68000	6100000	68000000	6100000	2300000	6100000	ND	-	ND	-	ND	-	ND	-
88-06-2	2,4,6-Trichlorophenol	SVOC	NA	NA	200	19000	74000	19000	3100	8900	ND	-	ND	-	ND	-	ND	-
120-83-2	2,4-Dichlorophenol	SVOC	NA	100000	200	180000	2100000	180000	1000	1000	ND	-	ND	-	ND	-	ND	-
105-67-9	2,4-Dimethylphenol	SVOC	NA	NA	1000	1200000	14000000	1200000	32000	87000	ND	-	ND	-	ND	-	ND	-
51-28-5	2,4-Dinitrophenol	SVOC	NA	100000	300	120000	1400000	120000	210	460	ND	-	ND	-	ND	-	ND	-
121-14-2	2,4-Dinitrotoluene	SVOC	NA	NA	NA	700	3000	6000	50	200	ND	-	ND	-	ND	-	ND	-
606-20-2	2,6-Dinitrotoluene	SVOC	NA	1030	NA	700	3000	700	1100	3000	ND	-	ND	-	ND	-	ND	-
91-58-7	2-Chloronaphthalene	SVOC	NA	NA	NA	NA	NA	NA	6200000	18000000	ND	-	ND	-	ND	-	ND	-
95-57-8	2-Chlorophenol	SVOC	NA	100000	800	310000	2200000	310000	4400	4400	ND	-	ND	-	ND	-	ND	-
91-57-6	2-Methylnaphthalene	SVOC	NA	410	8000	230000	2400000	230000	2900000	8000000	ND	-	ND	-	64J	-	79J	-
95-48-7	2-Methylphenol	SVOC	330b	100,000a	NA	310000	3400000	310000	64000	180000	ND	-	ND	-	56J	-	ND	-
88-74-4	2-Nitroaniline	SVOC	NA	NA	NA	39000	23000000	39000	38	100	ND	-	ND	-	ND	-	ND	-
88-75-5	2-Nitrophenol	SVOC	NA	NA	NA	NA	NA	NA	5900	17000	ND	-	ND	-	ND	-	ND	-
91-94-1	3,3-Dichlorobenzidine	SVOC	NA	NA	200	1000	4000	1000	8300	32000	ND	-	ND	-	ND	-	ND	-
108-39-4	m-Cresol(s)	SVOC	330b	100,000a	NA	NA	NA	NA	36000	100000	ND	-	ND	-	ND	-	ND	-
99-09-2	3-Nitroaniline	SVOC	NA	NA	NA	NA	NA	NA	33	91	ND	-	ND	-	ND	-	ND	-
534-52-1	4,6-Dinitro-2-methylphenol	SVOC	NA	NA	300	6000	68000	6000	NA	NA	ND	-	ND	-	ND	-	ND	-
59-50-7	4-Chloro-3-methylphenol	SVOC	NA	NA	NA	NA	NA	NA	37000	110000	ND	-	ND	-	ND	-	ND	-
106-47-8	4-Chloroaniline	SVOC	NA	100000	NA	NA	NA	NA	19000	52000	ND	-	ND	-	ND	-	ND	-
106-44-5	4-Methylphenol	SVOC	330b	34000	NA	31000	340000	31000	4200	12000	ND	-	ND	-	ND	-	ND	-
15831-10-4	3+4 Methylphenol	SVOC	330b	34000	NA	NA	NA	NA	NA	NA	ND	-	ND	-	36J	-	ND	-
100-01-6	4-Nitroaniline	SVOC	NA	NA	NA	NA	NA	NA	31	86	ND	-	ND	-	ND	-	ND	-
100-02-7	4-Nitrophenol	SVOC	NA	NA	NA	NA	NA	NA	4100	4100	ND	-	ND	-	ND	-	ND	-
83-32-9	Acenaphthene	SVOC	20,000	100,000a	110000	3400000	37000000	3400000	2700000	4700000	36J	-	ND	-	67J	-	ND	-
208-96-8	Acenaphthylene	SVOC	100,000a	100,000a	NA	NA	300000000	300000000	2500000	6900000	32J	-	ND	-	91J	-	ND	-
98-86-2	Acetophenone	SVOC	NA	NA	3000	2000	5000	2000	200000	540000	ND	-	ND	-	ND	-	ND	-
62-53-3	Aniline	SVOC	NA	48000	NA	NA	NA	NA	160	340	ND	-	ND	-	ND	-	ND	-
120-12-7	Anthracene	SVOC	100,000a	100,000a	2400000	17000000	30000000	17000000	350000	350000	68J	-	ND	-	180	-	ND	-
1912-24-9	Atrazine	SVOC	NA	NA	200	210000	2400000	210000	130	130	ND	-	ND	-	ND	-	ND	-
100-52-7	Benzaldehyde	SVOC	NA	NA	NA	6100000	68000000	6100000	NA	NA	ND	-	ND	-	ND	-	ND	-
92-87-5	Benzidine	SVOC	NA	NA	700	700	700	700	NA	340	ND	-	ND	-	ND	-	ND	-
56-55-3	Benzo-a-Anthracene	SVOC	1,000c	1,000f	800	5000	17000	10000	25000	110000	220	-	ND	-	610	-	ND	-
50-32-8	Benzo-a-Pyrene	SVOC	1,000c	1,000f	200	500	2000	7000	2500	11000	190	-	ND	-	500	-	ND	-
205-99-2	Benzo-b-Fluoranthene	SVOC	1,000c	1,000f	2000	5000	17000	10000	25000	110000	250	-	ND	-	710	-	ND	-
207-08-9	Benzo-k-Fluoranthene	SVOC	800c	1000	25000	45000	170000	45000	250000	610000	98J	-	ND	-	230	-	ND	-
191-24-2	Benzo-g,h,i-Perylene	SVOC	100,000	100,000a	NA	380000000	3000000	380000000	180000	180000	120J	-	ND	-	290	-	ND	-
65-85-0	Benzoic Acid	SVOC	NA	100000	NA	NA	NA	NA	2900000	7800000	ND	-	ND	-	ND	-	ND	-
100-51-6	Benzyl Alcohol	SVOC	NA	NA	NA	NA	NA	NA	400000	1100000	ND	-	ND	-	ND	-	ND	-
111-44-4	Bis(2-Chloroethyl)ether	SVOC	NA	NA	200	400	2000	400	3.9	17	ND	-	ND	-	ND	-	ND	-
108-60-1	Bis(2-Chloroisopropyl)ether	SVOC	NA	NA	5000	23000	67000	23000	8000	8000	ND	-	ND	-	ND	-	ND	-
117-81-7	Bis(2-Ethylhexyl)Phthalate	SVOC	NA	50000	1200000	35000	140000	35000	130000	130000	ND	-	ND	-	120J	-	ND	-
85-68-7	Butylbenzylphthalate	SVOC	NA	100000	230000	1200000	14000000	1200000	10000000	10000000	ND	-	ND	-	ND	-	ND	-
105-60-2	Caprolactam	SVOC	NA	NA	12000	31000000	340000000	31000000	NA	NA	ND	-	ND	-	ND	-	ND	-
86-74-8	Carbazole	SVOC	NA	NA	NA	24000	96000	24000	21000	83000	47J	-	ND	-	86J	-	ND	-
218-01-9	Chrysene	SVOC	1,000c	1,000f	80000	450000	1700000	450000	230000	230000	240	-	ND	-	620	-	ND	-
132-64-9	Dibenzofuran	SVOC	7,000	14000	NA	NA	NA	NA	NA	NA	18J	-	ND	-	44J	-	ND	-
53-70-3	Dibenzo-a,h-Anthracene	SVOC	330b	330e	800	500	2000	7000	2500	11000	34J	-	ND	-	83J	-	ND	-
84-66-2	Diethyl Phthalate	SVOC	NA	100000	88000	49000000	550000000	49000000	160000	160000	ND	-	ND	-	ND	-	ND	-
131-11-3	Dimethyl Phthalate	SVOC	NA	100000	NA	NA	NA	NA	NA	NA	ND	-	ND	-	ND	-	ND	-
84-74-2	Di-n-Butyl Phthalate	SVOC	NA	100000	760000	6100000	68000000	6100000	1500000	4100000	ND	-	ND	-	200	-	ND	-
25321-14-6	Dinitrotoluene(2,4-/2,6-)	SVOC	NA	NA	200	700	3000	700000	NA	NA	ND	-	ND	-	ND	-	ND	-
117-84-0	Di-n-Octyl Phthalate	SVOC	NA	100000	3300000	2400000	27000000	2400000	4400000	10000000	ND	-	ND	-	ND	-	ND	-
206-44-0	Fluoranthene	SVOC	100,000	100,000a	1300000	2300000	24000000	2300000	3200000	3200000	460	-	ND	-	1100	-	ND	-
86-73-7	Fluorene	SVOC	30,000	100,000a	170000	2300000	24000000	2300000	3000000	3800000	37J	-	ND	-	70J	-	ND	-
118-74-1	Hexachlorobenzene	SVOC	330	410	200	300	1000	300	960	960	ND	-	ND	-	ND	-	ND	-
77-47-4	Hexachlorocyclopentadiene	SVOC	NA	NA	320000	45000	110000	45000	91000	91000	ND	-	ND	-	ND	-	ND	-
67-72-1	Hexachloroethane	SVOC	NA	NA	200	NA	48000	12000	560	560	ND	-	ND	-	ND	-	ND	-
193-39-5	Indeno(1,2,3-cd)Pyrene	SVOC	500c	500f	7000	5000	17000	10000	25000	110000	130J	-	ND	-	320	-	ND	-
78-59-1	Isophorone	SVOC	NA	100000	200	510000	2000000	510000	1900	1900	ND	-	ND	-	ND	-	ND	-
91-20-3	Naphthalene	SVOC	12,000	100,000a	25000	6000	17000	20000	25000	25000	-	ND	-	ND	-	ND	-	580
98-95-3	Nitrobenzene	SVOC	NA	3700	200	5000	14000	5000	790	2200	ND	-	ND	-	ND	-	ND	-
62-75-9	N-Nitrosodimethylamine	SVOC	NA	NA	700	700	700	700	0.041	0.17	ND	-	ND	-	ND	-	ND	-
621-64-7	N-Nitroso-di-n-Propylamine	SVOC	NA	NA	200	200	300	200	1.3	5.1	ND	-	ND	-	ND	-	ND	-
86-30-6	N-Nitrosodiphenylamine	SVOC	NA	NA	400	99000	390000	99000	20000	83000	ND	-	ND	-	ND	-	ND	-
87-86-5	Pentachlorophenol	SVOC	800b	2400	300	900	3000	900	5000	5000	ND	-	ND	-	210	-	ND	-
85-01-8	Phenanthrene	SVOC	100,000	100,000a	NA	NA	300000000	300000000	10000000	10000000	350	-	ND	-	720	-	ND	-
108-95-2	Phenol	SVOC	330b	100,000a	8000	18000000	210000000	18000000	66000	66000	ND	-	ND	-	ND	-	ND	-
129-00-0	Pyrene	SVOC	100000	100,000a	840000	1700000	18000000	1700000	2200000	2200000	400	-	ND	-	920	-	ND	-

Table 1: Waste Characterization - Soil Analysis
Location: 1660 Boone Ave
Bronx, NY
IEC #: 13747

CAS Number	Parameter Name	Parameter ID	NYCRR 375 Unrestricted Use	NYCRR 375 Residential	NJ Default IGW SSL	NJ RDCSRS 2017	NJ NRDCSRS 2017	Doremus Ave. Redev. Project Acceptance Criteria	PA Clean Fill Standards	PA WMGR096 Regulated Fill Limits	WC-1 COMP	WC-1 GRAB	WC-2 COMP	WC-2 GRAB	WC-3 COMP	WC-3 GRAB	WC-4 COMP	WC-4 GRAB
		Depth									*0-8' bgs*	*3' bgs*	*0-8' bgs*	*5.5' bgs*	*0-8' bgs*	*4' bgs*	*8-15' bgs*	*14' bgs*
		Date									*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*	*7/16/2019*
		Unit	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
93-72-1	2,4,5-TP Acid	PESTICIDE	3,800	58000	NA	NA	NA	NA	22000	22000	ND	-	ND	-	ND	-	ND	-
72-54-8	4,4-DDD	PESTICIDE	3.3b	2600	4000	3000	13000	3000	6800	30000	ND	-	ND	-	ND	-	ND	-
72-55-9	4,4-DDE	PESTICIDE	3.3b	1800	18000	2000	9000	2000	41000	170000	ND	-	ND	-	ND	-	ND	-
50-29-3	4,4-DDT	PESTICIDE	3.3b	1700	11000	2000	8000	2000	53000	230000	ND	-	ND	-	ND	-	ND	-
309-00-2	Aldrin	PESTICIDE	5c	19	200	40	200	40	100	440	ND	-	ND	-	ND	-	ND	-
319-84-6	alpha-BHC	PESTICIDE	20	97	2	100	500	100	46	190	ND	-	ND	-	ND	-	ND	-
5103-71-9	Alpha Chlordane	PESTICIDE	94	910	NA	NA	NA	NA	NA	NA	ND	-	ND	-	ND	-	ND	-
319-85-7	beta-BHC	PESTICIDE	36	72	2	400	2000	200	220	820	ND	-	ND	-	ND	-	ND	-
57-74-9	Chlordane	PESTICIDE	94	910	50	200	1000	200	49000	49000	ND	-	ND	-	ND	-	ND	-
319-86-8	delta-BHC	PESTICIDE	40	100,000a	NA	NA	NA	200	11000	30000	ND	-	ND	-	ND	-	ND	-
1918-00-9	Dicamba	HERBICIDE	NA	NA	NA	NA	NA	200	NA	NA	ND	-	ND	-	ND	-	ND	-
60-57-1	Dieldrin	PESTICIDE	5	39	3	40	200	200	110	440	ND	-	ND	-	ND	-	ND	-
959-98-8	Endosulfan I	PESTICIDE	2,400	4,800i	NA	NA	NA	200	110000	260000	ND	-	ND	-	ND	-	ND	-
33213-65-9	Endosulfan II	PESTICIDE	2,400	4,800i	NA	NA	NA	200	130000	260000	ND	-	ND	-	ND	-	ND	-
1031-07-8	Endosulfan Sulfate	PESTICIDE	2,400	4,800i	2000	470000	6800000	200	70000	70000	ND	-	ND	-	ND	-	ND	-
72-20-8	Endrin	PESTICIDE	14	2200	1000	23000	340000	400	5500	5500	ND	-	ND	-	ND	-	ND	-
58-89-9	gamma-BHC	PESTICIDE	100	280	2	400	2000	200	72	72	ND	-	ND	-	ND	-	ND	-
5103-74-2	Gamma Chlordane	PESTICIDE	NA	540	NA	NA	NA	NA	NA	NA	ND	-	ND	-	ND	-	ND	-
76-44-8	Heptachlor	PESTICIDE	42	420	500	100	700	NA	680	680	ND	-	ND	-	ND	-	ND	-
1024-57-3	Heptachlor Epoxide	PESTICIDE	NA	77	10	70	300	40	1100	1100	ND	-	ND	-	ND	-	ND	-
72-43-5	Methoxychlor	PESTICIDE	NA	100000	160000	390000	5700000	470000	630000	630000	ND	-	ND	-	ND	-	ND	-
56-38-2	Parathion	PESTICIDE	NA	100000	NA	NA	NA	NA	130000	360000	ND	-	ND	-	ND	-	ND	-
8001-35-2	Toxaphene	PESTICIDE	NA	NA	300	600	3000	NA	1200	1200	ND	-	ND	-	ND	-	ND	-
12674-11-2	Aroclor 1016	PCB	NA	NA	NA	NA	NA	470000	15000	200000	ND	-	ND	-	ND	-	ND	-
11104-28-2	Aroclor 1221	PCB	NA	NA	NA	NA	NA	23000	630	2500	ND	-	ND	-	ND	-	ND	-
11141-16-5	Aroclor 1232	PCB	NA	NA	NA	NA	NA	400	500	2000	ND	-	ND	-	ND	-	ND	-
53469-21-9	Aroclor 1242	PCB	NA	NA	NA	NA	NA	NA	16000	62000	ND	-	ND	-	ND	-	ND	-
12672-29-6	Aroclor 1248	PCB	NA	NA	NA	NA	NA	100	9900	44000	6.96J	-	ND	-	ND	-	ND	-
11097-69-1	Aroclor 1254	PCB	NA	NA	NA	NA	NA	70	4400	44000	ND	-	ND	-	182	-	ND	-
11096-82-5	Aroclor 1260	PCB	NA	NA	NA	NA	NA	390000	30000	130000	ND	-	ND	-	ND	-	ND	-
37324-23-5	Aroclor 1262	PCB	NA	NA	NA	NA	NA	NA	NA	NA	ND	-	ND	-	ND	-	ND	-
11100-14-4	Aroclor 1268	PCB	NA	NA	NA	NA	NA	200	NA	NA	ND	-	ND	-	ND	-	ND	-
1336-36-3	Polychlorinated Biphenyls	PCBs	100	1000	200	200	1000	600	NA	NA	6.96J	-	ND	-	182	-	ND	-
		Unit	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
7429-90-5	Aluminum, Al	METAL	NA	NA	6000	78000	NA	78000	NA	190000	11700	-	12600	-	8620	-	12500	-
7440-36-0	Antimony, Sb	METAL	NA	NA	6	31	450	31	27	27	0.892J	-	0.389J	-	1.79J	-	ND	-
7440-38-2	Arsenic, As	METAL	13c	16f	19*	19*	19*	19	12	53	8.15	-	3.47	-	8.05	-	4.15	-
7440-39-3	Barium, Ba	METAL	350c	350f	2100	16000	59000	16000	8200	8200	74.6	-	84.9	-	131	-	95.8	-
7440-41-7	Beryllium, Be	METAL	7.2	14	0.7	16	140	16	320	320	0.324J	-	0.379J	-	0.268J	-	0.364J	-
7440-43-9	Cadmium, Cd	METAL	2.5c	2.5f	2	78	78	38	ND	38	ND	-	2	-	1.55	-	0.115J	-
7440-47-3	Chromium, Cr	METAL	NA	NA	20 (hex)	240 (hex)	20 (hex)	240 (hex)	94 (hex)	190 (hex)	20.2	-	21.5	-	26.8	-	26	-
18540-29-9	Chromium, hexavalent	METAL	1b	22	NA	240	20	240	94	190	ND	-	ND	-	ND	-	ND	-
16065-83-1	Chromium, trivalent	METAL	30c	36	NA	120000	NA	120000	190000	190000	20	-	22	-	27	-	26	-
7440-48-4	Cobalt, Co	METAL	NA	NA	90	1600	590	1600	8.1	22	8.46	-	8.8	-	7.67	-	9.99	-
7440-50-8	Copper, Cu	METAL	50	270	1100	3100	45000	3100	8200	36000	30.1	-	18.3	-	49.3	-	23.8	-
57-12-5	Cyanide	METAL	27	27	20	47	680	47	200	200 (free)	ND	-	0.34J	-	0.52J	-	ND	-
7439-89-6	Iron, Fe	METAL	NA	NA	NA	NA	NA	NA	NA	190000	18200	-	18100	-	19800	-	18800	-
7439-92-1	Lead, Pb	METAL	63c	400	90	400	800	800	450	1000	45.8	-	30	-	182	-	35.4	-
7439-96-5	Manganese, Mn	METAL	1,600c	2,000f	65	11000	5900	11000	31000	190000	282	-	439	-	382	-	580	-
7439-97-6	Mercury, Hg	METAL	.18c	0.81j	0.1	23	65	23	10	10	0.08	-	ND	-	0.452	-	0.112	-
7440-02-0	Nickel, Ni	METAL	30	140	48	1600	23000	1600	650	650	16.3	-	12.9	-	14.1	-	14.9	-
7782-49-2	Selenium, Se	METAL	3.9c	36	11	390	5700	390	26	26	0.367J	-	0.444J	-	0.83J	-	0.612J	-
7440-22-4	Silver, Ag	METAL	2	36	1	390	5700	390	84	84	ND	-	ND	-	ND	-	ND	-
7440-28-0	Thallium, Tl	METAL	NA	NA	3	NA	NA	NA	14	14	ND	-	ND	-	ND	-	0.306J	-
7440-62-2	Vanadium, V	METAL	NA	NA	NA	78	1100	99	1500	72000	28.4	-	30.8	-	25.3	-	32.2	-
7440-66-6	Zinc, Zn	METAL	109c	2200	930	23000	110000	23000	12000	12000	107	-	177	-	800	-	129	-
Total EPH	EPH - NJDEP EPH	EPH	NA	NA	5100	5100	NA	5100	NA	NA	44	-	69.9	-	313	-	101	-

Shaded values indicate an exceedance of 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs), NJ Default Impact to Groundwater SSL, NJ Residential / Non-Residential Direct Contact Soil Remediation Standards, DARP Acceptance Criteria, PA Clean Fill Standard, and/or PA Regulated Fill Limits values.

Notes:
ug/kg = micrograms per kilogram (ppb)
mg/kg = milligrams per kilogram (ppm)
NA = no applicable standard
ND = non-detect
VOC= volatile organic compound
SVOC = semivolatile organic compound
PCB = polychlorinated biphenyls
CAL = calculated value
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.

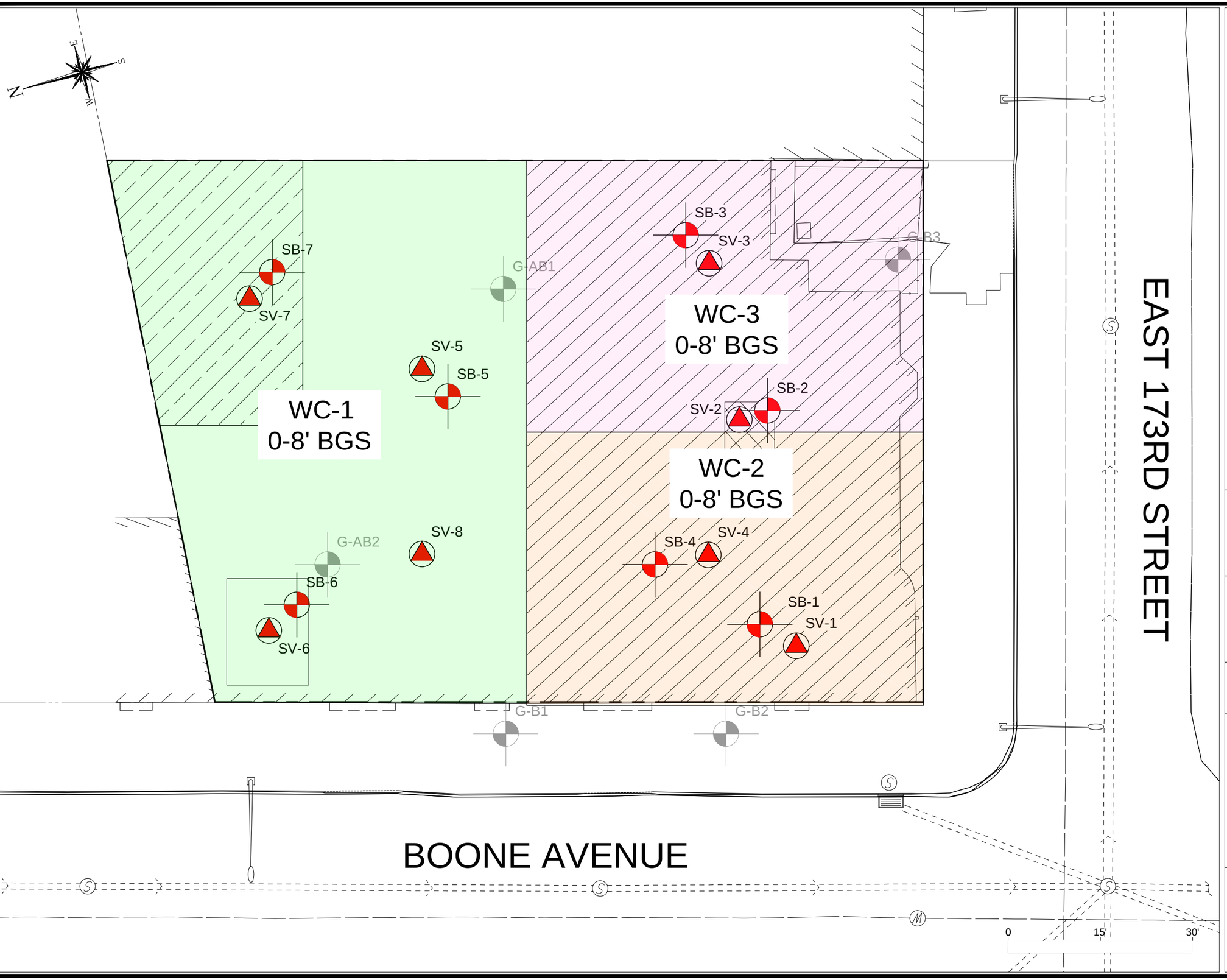
Table 2: Waste Characterization - TCLP Analysis
Location: 1660 Boone Ave
Bronx, NY
IEC #: 13747

CAS Number	Parameter Name	Parameter ID	TCLP Hazardous Waste Regulatory Levels	WC-1 COMP	WC-2 COMP	WC-3 COMP	WC-4 COMP
		Depth		*0-8' bgs*	*0-8' bgs*	*0-8' bgs*	*8-15' bgs*
		Date		*7/16/2019*	*7/18/2019*	*7/20/2019*	*7/22/2019*
		Unit	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
7440-38-2	Arsenic, As	METAL	5	ND	ND	ND	ND
7440-39-3	Barium, Ba	METAL	100	0.458J	0.389J	0.462J	0.585
7440-43-9	Cadmium, Cd	METAL	1	ND	ND	ND	ND
7440-47-3	Chromium, Cr	METAL	5	ND	ND	ND	ND
7439-92-1	Lead, Pb	METAL	5	0.094J	0.055J	ND	0.037J
7439-97-6	Mercury, Hg	METAL	0.2	ND	ND	ND	ND
7782-49-2	Selenium, Se	METAL	1	ND	ND	ND	ND
7440-22-4	Silver, Ag	METAL	5	ND	ND	ND	ND
	Corrosivity/pH	Method S423/E150.1	>2; <12.5	8.1	7.6	11	7.8

Notes:

mg/L = milligrams per liter
ND = non-detect
J = Estimated value.

FIGURES



NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. UNDERLAY OF PROPOSED STRUCTURES INCLUDED FROM SITE PLAN DRAWING NUMBER A-090.00, PREPARED BY STEPHEN B. JACOBS GROUP, P.C. DATED 06/06/2019.
3. "G-B" & "G-AB" SERIES OF GEOTECHNICAL BORINGS INCLUDED FOR REFERENCE, INSTALLED BY OTHERS.

LEGEND:

- SOIL VAPOR SAMPLE POINT
- SOIL BORING

WASTE CHARACTERIZATION GRID & SAMPLE LOCATION PLAN

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

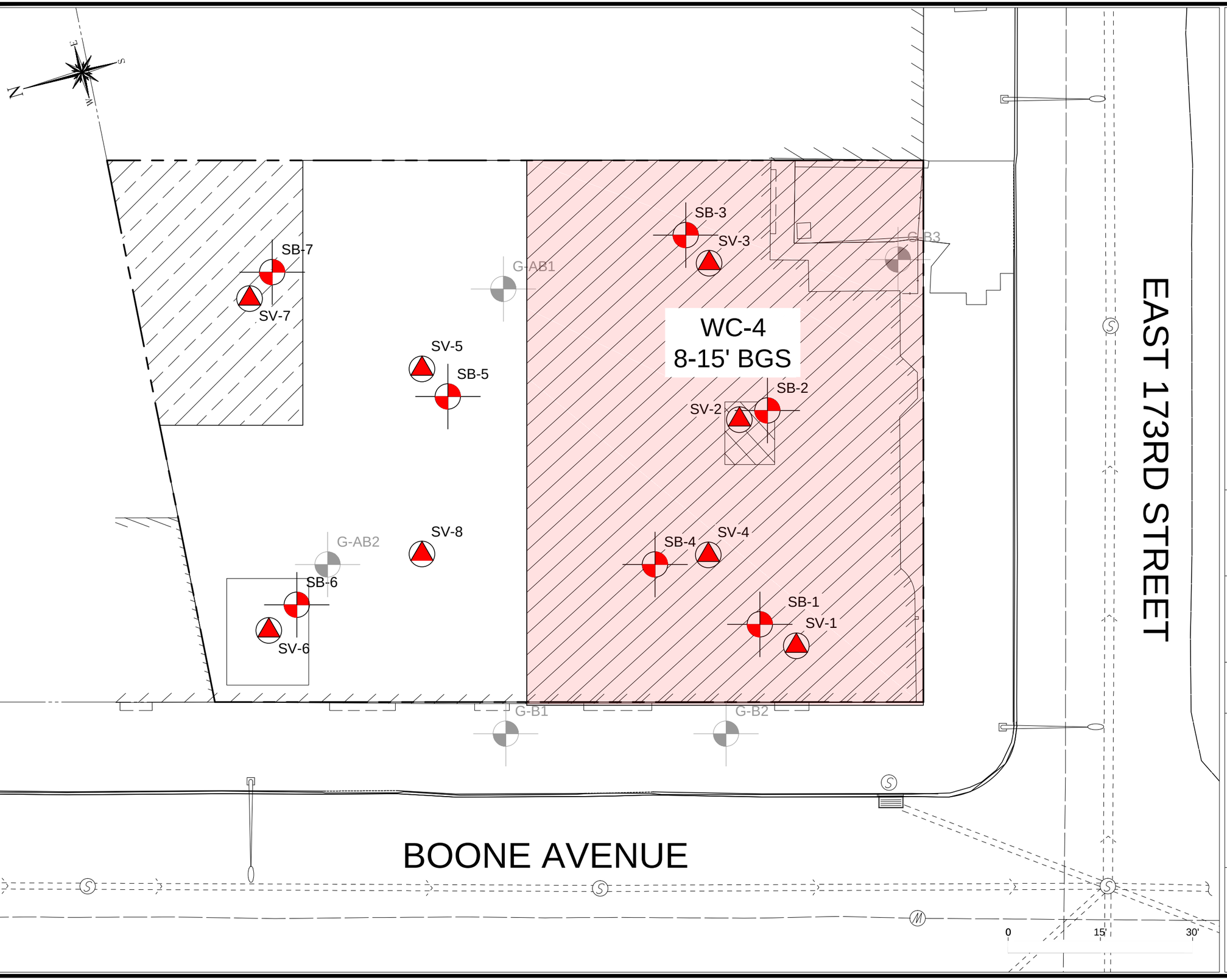
SHEET NO. 01

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	07/24/2019
SCALE:	1" = 15'

REVISIONS	
NO:	DATE:

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071



NOTES:

1. BASE MAP & SITE BOUNDARY BASED ON CLIENT PROVIDED SURVEY DATED 01/29/2019.
2. UNDERLAY OF PROPOSED STRUCTURES INCLUDED FROM SITE PLAN DRAWING NUMBER A-090.00, PREPARED BY STEPHEN B. JACOBS GROUP, P.C. DATED 06/06/2019.
3. "G-B" & "G-AB" SERIES OF GEOTECHNICAL BORINGS INCLUDED FOR REFERENCE, INSTALLED BY OTHERS.

LEGEND:

- SOIL VAPOR SAMPLE POINT
- SOIL BORING

WASTE CHARACTERIZATION GRID & SAMPLE LOCATION PLAN

1660 BOONE AVENUE
BRONX, NY
BLOCK 3015, LOT 1

SHEET NO. 02

PROJECT NO.	13747
DESIGNED BY:	RD
DRAWN BY:	RD
CHECKED BY:	KK
DATE:	07/24/2019
SCALE:	1" = 15'

REVISIONS

NO:	DATE:

IMPACT ENVIRONMENTAL
170 KEYLAND COURT
BOHEMIA, NEW YORK 11716
TEL (631) 269-8800 FAX (631) 269-1599

1000 PAGE AVENUE
LYNDHURST, NEW JERSEY 07071

EXHIBITS

Photo 1: View of core from 0''-5'' in SB-5 from grid WC-1.

Photo 2: View of core from 0.5'-2' in SB-5 from grid WC-1.

Photo 3: View of core from 2'-4' in SB-5 from grid WC-1.

Photo 4: View of core from 4'-5' in SB-5 from grid WC-1.

Photo 5: View of core from 0''-3'' in SB-6 from grid WC-1.

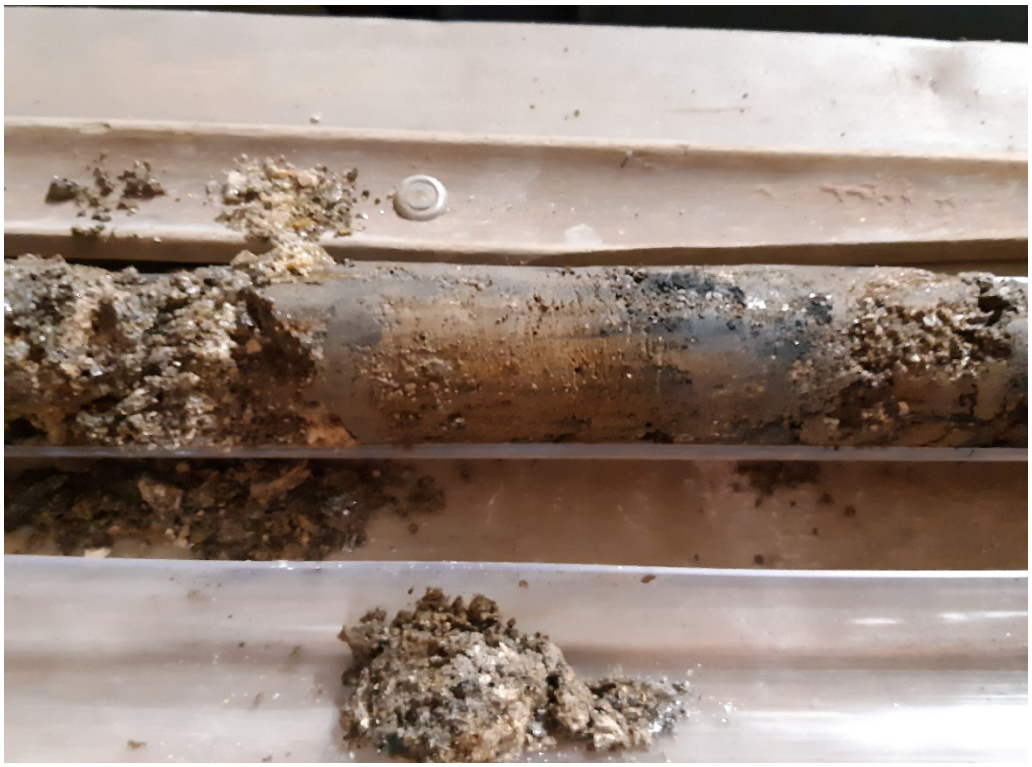


Photo 6: Photograph No. 6: View of core from 3''-20'' in SB-6 from grid WC-1.

Photo 7: Photograph No. 6: View of core from 0''-6' in SB-4 from grid WC-2.

Photo 8: View of core from 0.5'-2.5' in SB-4 from grid WC-2.

Photo 9: View of core from 2.5'-4' in SB-4 from grid WC-2.

Photo 10: View of core from 4'-10' in SB-4 from grid WC-2.

Photo 11: View of core from 0'-6'' in SB-1 from grid WC-2.

Photo 12: View of core from 0.5'-3' in SB- from grid WC-2.

Photo 13: View of core from 0'-4' in SB-2 from grid WC-3.

Photo 14: View of core from 4'-8' in SB-2 from grid WC-2.

Photo 15: View of core from 8'-10' in SB-2 from grid WC-3.

Photo 16: View of core from 10'-13' in SB-2 from grid WC-3.

Photo 17: View of core from 0’-4’ in SB-3 from grid WC-3.

Photo 18: View of core from 4’-10’ in SB-3 from grid WC-3.

Photo 19: View of core from 10'-15' in SB-3 from grid WC-3.

Photo 20: View of core from 0'-0.5' in SB-7 from grid WC-1.

Photo 21: View of core from 0.5'-3' in SB-7 from grid WC-1.

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P. (201) 268-5686
F. (201) 604-7081

Project: 13147	Boring Location:
Boring ID: SB-1	
Date: 7/15/19	
Weather: SUNNY	
Notes:	
Site Name:	
Site Location: 1000 BOONE AVE	
Date Complete: 7/15/19	
Geologist: M. DALAL / G. MAYER	Drilling Co: TG PANZO
Driller:	Drill Rig:
Total Depth:	GW Encountered:
Sampler Type: MACRO.	GW Stabilized:

Boring Location Sketch (NTS)

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0						0-6": concrete fragments and crushed concrete	
1	SB-1(0-2)	0.0		36"		6-36": brown med soil w/ clay and little rock fragments	
2		0.0					
3	SB-1(2-4)	0.0					
4		0.0					
5		0.0					

Sampled

SB-1 (0-2) @ 12:30
SB-1 (2-4) @ 12:40

REFUSAL @ 4' BGS.

Impact Environmental Closures, Inc.
1000 Page Avenue
Lyndhurst, NJ 07071
P. (201) 268-5686
F. (201) 604-7081

Project:	13147
Boring ID:	SB-2
Date:	7/15/19
Weather:	Sunny
Notes:	

Boring Location:

Site Name:	
Site Location:	1660 Boone Ave
Date Complete:	7/15/19
Geologist:	M. Dalal / G. Maya
Driller:	PG Enviro
Total Depth:	13'
Sampler Type:	
Drilling Co:	PG Enviro
Drill Rig:	
GW Encountered:	N/A
GW Stabilized:	

Boring Location Sketch (NTS)

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Recovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0	SB-2 (0-2)	0.0		48"		0-8": concrete fragments and crushed concrete	
1						8-40': brown med soil w/ little concrete fragments and little rocks	
2		0.0					
3						40-48': brown clay w/ little rocks	
4		0.0					
5						0-12": brown med soil w/ little rocks and angular gravel	
6		0.0		60"		12-60": brown clay w/ little rocks	
7							
8		0.0					
9							
10		0.0					
11	SB-2 (11-13)			48"		0-48': black clay w/ some rocky material	
12		0.0					
13		0.0					

Sampling
SB-2 (0-2) @ 13:30
SB-2 (11-13) @ 13:40

Refusal @ 13' BGS

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Project:	13147
Boring ID:	SB-3
Date:	7/15/19
Weather:	Sunny
Notes:	

Boring Location:

Site Name:	
Site Location:	1660 Boone Ave
Date Complete:	7/15/19
Geologist:	M. Dalal / G. Mayer
Driller:	PG Enviro
Total Depth:	15'
Sampler Type:	
Drilling Co:	PG Enviro
Drill Rig:	
GW Encountered:	N/A
GW Stabilized:	

Boring Location Sketch (NTS)

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0	SB-3(0-2)						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13	SB-3(13-15)						
14							
15							

Sampling
SB-3(0-2) @ 14:20
SB-3(13-15) @ 14:30

Refusal @ 15' BGS

Impact Environmental Closures, Inc.
1000 Page Avenue
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P. (201) 268-5686
F. (201) 604-7081

Project: 13147	Boring Location:
Boring ID: SB-4	
Date: 7/15/19	
Weather: Sunny	
Notes:	
Site Name:	
Site Location: 1660 Boone Ave	
Date Complete: 7/15/19	
Geologist: M. Dalal / G. Mayer	Drilling Co: PG Enviro.
Driller: PG Enviro.	Drill Rig:
Total Depth: 12'	GW Encountered: N/A
Sampler Type:	GW Stabilized:

Boring Location Sketch (NTS)

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0	(0-2')	0.0		48"		0-6" - Concrete fragments and crushed concrete.	
1							
2		0.0				6-30" - Brown med sand w/ some rock fragments, weathered bedrock.	
3		0.0				30-48" - Brown med sand w/ some clay, rock fragments and angular gravel.	
4							
5		0.0		60"		0-12" - Brown med sand w/ little clay, some rock fragments and angular gravel.	
6		0.0				12-50" - Grayish brown med sand w/ some angular gravel	
7							
8		0.0				50-60" - Same as above 0"-12" ⊝ clay.	
9		0.0					
10	(10-12')	0.0		48"		0-48" - Brown med-coarse sand w/ some rock fragments and angular gravel, little weathered bedrock.	
11		0.0					
12							

Sampled
SB-4(0-2') @1040
SB-4(10-12') @1105

Refusal @ 12' BGS.

Impact Environmental Closures, Inc.
1000 Page Avenue
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Project:	13147
Boring ID:	SB-5
Date:	7/15/19
Weather:	Sunny
Notes:	

Boring Location:

Boring Location Sketch (NTS)

Site Name:			
Site Location:	1660 Boone Ave		
Date Complete:	7/15/19		
Geologist:	M. Dalal, G. Mayer	Drilling Co:	PG Enviro
Driller:	PG Enviro	Drill Rig:	
Total Depth:	7'	GW Encountered:	N/A
Sampler Type:		GW Stabilized:	

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0		0.0				0-6": concrete fragments and crushed concrete	
1	(0-2')			48"		6-24": brown med sand with some concrete fragments	
		0.0					
2						24-48": brown med sand, with rock fragments and gravel	
		0.0					
3							
		0.0					
4							
5	(4-6')	0.0				0-36": brown med sand w/ some clay and little rock fragments	
				36"			
6							
		0.0					
7							

Sampled
SB-5 (0-2) @0900
SB-5 (4-6) @0915

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F. (201) 604-7081

Project: 13147	Boring Location:
Boring ID: SB-6	EXISTING BATHROOM
Date: 7/15/19	
Weather: SUNNY	
Notes:	
Site Name:	
Site Location: 16610 BROWNE AVE	
Date Complete: 7/15/19	
Geologist: M. DALAL / G. MAHER	Drilling Co: PG
Driller:	Drill Rig: HAND DRILL
Total Depth: 7'	GW Encountered: N/A
Sampler Type: MACRO	GW Stabilized:

Boring Location Sketch (NTS)

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0	(0-2')	0.0		20"		0-3"- CONCRETE	
1		0.0				3"-20"- BROWN MED. SAND W/ SOME ROCK. NO ODOR OR PID READING ENCOUNTERED.	
2						REFUSAL @ 2'	
						ONLY SAMPLED FROM 0'-2' BGS.	
						SAMPLED	
						SB-6 (0-2') @ 1015.	

Impact Environmental Closures, Inc.
1000 Page Avenue
Lyndhurst, NJ 07071
P. (201) 268-5686
F. (201) 604-7081

Project:	13147
Boring ID:	SB-7
Date:	7/15/19
Weather:	Sunny
Notes:	

Boring Location:

Boring Location Sketch (NTS)

Site Name:	
Site Location:	1660 Boone Ave
Date Complete:	7/15/19
Geologist:	M. DALAL
Driller:	PG
Total Depth:	6'
Sampler Type:	MACRO
Drilling Co:	PG.
Drill Rig:	
GW Encountered:	N/A
GW Stabilized:	

Depth (ft.)	Sample ID / Depth	PID/FID/ OVM	Blow Count	Rocovery (inches)	Soil Type	SOIL/GEOLOGIC DESCRIPTION	Well Construction
0	(0-2')	0.0		34"		0-3" - CONCRETE FRAGMENTS + CRUSHED CONCRETE.	
1		0.0				3"-34" - BROWN MED-COARSE SAND w/ ROCK AND SOME ANGULAR GRAVEL WEATHERED BEDROCK.	
2		0.0					
3		0.0					
4	(4'-6')	0.0		20"		0-20" - SAME AS ABOVE 3"-34"	
5		0.0					
6							

Sampled
SB-7 (0-2) @ 14:45
SB-7 (4-6) @ 14:55

ANALYTICAL REPORT

Lab Number:	L1931123
Client:	Impact Environmental 1000 Page Avenue Lyndhurst, NJ 07071
ATTN:	Robert Dwyer
Phone:	(201) 268-5686
Project Name:	1660 BOONE AVE.
Project Number:	13747
Report Date:	07/22/19

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: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1931123-01	WC-1 GRAB	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:00	07/16/19
L1931123-02	WC-1 COMP	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:05	07/16/19
L1931123-03	WC-2 GRAB	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:20	07/16/19
L1931123-04	WC-2 COMP	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:25	07/16/19
L1931123-05	WC-3 GRAB	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:40	07/16/19
L1931123-06	WC-3 COMP	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 09:45	07/16/19
L1931123-07	WC-4 GRAB	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 10:00	07/16/19
L1931123-08	WC-4 COMP	SOIL	1660 BOONE AVE., BRONX, NY	07/16/19 10:05	07/16/19

Project Name:	1660 BOONE AVE.	**Lab Number:**	L1931123
Project Number:	13747	**Report Date:**	07/22/19

Case Narrative

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

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

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

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

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

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

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123
Project Number: 13747 **Report Date:** 07/22/19

Case Narrative (continued)

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

Semivolatile Organics
The WG1260798-2/-3 LCS/LCSD recoveries, associated with L1931123-02, -06, and -08, are below the acceptance criteria for benzidine (8%/8%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

NJ EPH (Total)
WG1261769-4: One or more compounds failed to meet the recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

Total Metals
L1931123-02, -04, -06, and -08: 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 WG1261722-3 MS recoveries for aluminum (0%), iron (0%), and manganese (62%), performed on L1931123-02, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1261722-3 MS recovery, performed on L1931123-02, is outside the acceptance criteria for zinc (254%). A post digestion spike was performed and yielded an unacceptable recovery for zinc (75%). The serial dilution recovery was not applicable; therefore, this element fails the matrix test and the result reported in the native sample should be considered estimated.
The WG1261722-4 Laboratory Duplicate RPD for lead (27%), performed on L1931123-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123
Project Number: 13747 **Report Date:** 07/22/19

Case Narrative (continued)

Cyanide, Total

The WG1260927-2/-3 LCS/LCSD recoveries (55%/41%), associated with L1931123-02, -04, -06, and -08, 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 Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 07/22/19

ORGANICS

VOLATILES

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-01 Date Collected: 07/16/19 09:00

Client ID: WC-1 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 07/17/19 22:16

Analyst: NLK

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	1.6		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	0.73	J	ug/kg	1.1	0.62	1
Ethylbenzene	0.45	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-01 Date Collected: 07/16/19 09:00

Client ID: WC-1 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	0.57	J	ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Dibromomethane	ND		ug/kg	2.3	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	100		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.14	1
Bromochloromethane	ND		ug/kg	2.3	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.57	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.74	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1
Tert-Butyl Alcohol	61		ug/kg	23	5.8	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	0.43	J	ug/kg	2.3	0.38	1
Methyl Acetate	28		ug/kg	4.5	1.1	1
Acrolein	ND		ug/kg	28	6.4	1
1,4-Dioxane	ND		ug/kg	91	40.	1
Freon-113	ND		ug/kg	4.5	0.78	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-01 Date Collected: 07/16/19 09:00

Client ID: WC-1 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	102		70-130

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-03 Date Collected: 07/16/19 09:20

Client ID: WC-2 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 07/17/19 22:41

Analyst: NLK

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	4.4		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.18	1
Benzene	0.30	J	ug/kg	0.56	0.18	1
Toluene	0.98	J	ug/kg	1.1	0.61	1
Ethylbenzene	0.67	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-03 Date Collected: 07/16/19 09:20

Client ID: WC-2 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	0.60	J	ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	110		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	ND		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.5	0.72	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1
Tert-Butyl Alcohol	73		ug/kg	22	5.7	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	0.53	J	ug/kg	2.2	0.37	1
Methyl Acetate	30		ug/kg	4.5	1.1	1
Acrolein	ND		ug/kg	28	6.3	1
1,4-Dioxane	ND		ug/kg	89	39.	1
Freon-113	ND		ug/kg	4.5	0.77	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-03 Date Collected: 07/16/19 09:20

Client ID: WC-2 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-05 Date Collected: 07/16/19 09:40

Client ID: WC-3 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 07/17/19 23:07

Analyst: NLK

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.8	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.0	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.31	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.36	1
Tetrachloroethene	0.85		ug/kg	0.68	0.26	1
Chlorobenzene	ND		ug/kg	0.68	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.94	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.68	0.22	1
Bromodichloromethane	ND		ug/kg	0.68	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.37	1
cis-1,3-Dichloropropene	ND		ug/kg	0.68	0.21	1
Bromoform	ND		ug/kg	5.4	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.68	0.22	1
Benzene	0.94		ug/kg	0.68	0.22	1
Toluene	22		ug/kg	1.4	0.73	1
Ethylbenzene	1.1	J	ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.4	1.3	1
Bromomethane	ND		ug/kg	2.7	0.78	1
Vinyl chloride	ND		ug/kg	1.4	0.45	1
Chloroethane	ND		ug/kg	2.7	0.61	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.68	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.19	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-05 Date Collected: 07/16/19 09:40

Client ID: WC-3 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.23	1
Methyl tert butyl ether	0.62	J	ug/kg	2.7	0.27	1
p/m-Xylene	1.1	J	ug/kg	2.7	0.76	1
o-Xylene	ND		ug/kg	1.4	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Dibromomethane	ND		ug/kg	2.7	0.32	1
Styrene	ND		ug/kg	1.4	0.26	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	260		ug/kg	14	6.5	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	14		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.7	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.68	0.18	1
n-Butylbenzene	ND		ug/kg	1.4	0.22	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.4	0.88	1
Acrylonitrile	ND		ug/kg	5.4	1.6	1
Tert-Butyl Alcohol	69		ug/kg	27	6.9	1
n-Propylbenzene	ND		ug/kg	1.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	0.72	J	ug/kg	2.7	0.45	1
Methyl Acetate	ND		ug/kg	5.4	1.3	1
Acrolein	ND		ug/kg	34	7.6	1
1,4-Dioxane	ND		ug/kg	110	47.	1
Freon-113	ND		ug/kg	5.4	0.94	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-05 Date Collected: 07/16/19 09:40

Client ID: WC-3 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	71		70-130

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-07 Date Collected: 07/16/19 10:00
Client ID: WC-4 GRAB Date Received: 07/16/19
Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/17/19 09:51
Analyst: NLK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	68	9.8	1
Chloroform	ND		ug/kg	100	9.5	1
Carbon tetrachloride	ND		ug/kg	68	16.	1
1,2-Dichloropropane	ND		ug/kg	68	8.4	1
Dibromochloromethane	ND		ug/kg	68	9.5	1
1,1,2-Trichloroethane	ND		ug/kg	68	18.	1
Tetrachloroethene	ND		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.6	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	68	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.4	1
trans-1,3-Dichloropropene	ND		ug/kg	68	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	28	J	ug/kg	34	11.	1
Toluene	ND		ug/kg	68	37.	1
Ethylbenzene	950		ug/kg	68	9.5	1
Chloromethane	ND		ug/kg	270	63.	1
Bromomethane	ND		ug/kg	140	39.	1
Vinyl chloride	ND		ug/kg	68	23.	1
Chloroethane	ND		ug/kg	140	30.	1
1,1-Dichloroethene	ND		ug/kg	68	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.3	1
Trichloroethene	ND		ug/kg	34	9.3	1
1,2-Dichlorobenzene	ND		ug/kg	140	9.7	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-07 Date Collected: 07/16/19 10:00

Client ID: WC-4 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	66	J	ug/kg	140	38.	1
o-Xylene	ND		ug/kg	68	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	68	12.	1
Dibromomethane	ND		ug/kg	140	16.	1
Styrene	ND		ug/kg	68	13.	1
Dichlorodifluoromethane	ND		ug/kg	680	62.	1
Acetone	ND		ug/kg	680	320	1
Carbon disulfide	ND		ug/kg	680	310	1
2-Butanone	ND		ug/kg	680	150	1
Vinyl acetate	ND		ug/kg	680	140	1
4-Methyl-2-pentanone	ND		ug/kg	680	86.	1
1,2,3-Trichloropropane	ND		ug/kg	140	8.6	1
Bromochloromethane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	68	19.	1
1,3-Dichloropropane	ND		ug/kg	140	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
n-Butylbenzene	150		ug/kg	68	11.	1
sec-Butylbenzene	63	J	ug/kg	68	9.9	1
tert-Butylbenzene	12	J	ug/kg	140	8.0	1
o-Chlorotoluene	ND		ug/kg	140	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Isopropylbenzene	130		ug/kg	68	7.4	1
p-Isopropyltoluene	81		ug/kg	68	7.4	1
Naphthalene	580		ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	78.	1
Tert-Butyl Alcohol	ND		ug/kg	1400	350	1
n-Propylbenzene	300		ug/kg	68	12.	1
1,3,5-Trimethylbenzene	21	J	ug/kg	140	13.	1
1,2,4-Trimethylbenzene	2800		ug/kg	140	22.	1
Methyl Acetate	120	J	ug/kg	270	64.	1
Acrolein	ND		ug/kg	1700	380	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
Freon-113	ND		ug/kg	270	47.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-07 Date Collected: 07/16/19 10:00

Client ID: WC-4 GRAB Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	92		70-130

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 20:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1261370-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 20:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1261370-5					
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
Bromochloromethane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 20:08
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,03,05 Batch: WG1261370-5					
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 09:25
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1261446-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	ND		ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 09:25
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1261446-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	10	J	ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
Bromochloromethane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/19 09:25
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 07 Batch: WG1261446-5					
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	ND		ug/kg	200	48.
Acrolein	ND		ug/kg	1200	280
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1261370-3 WG1261370-4								
Methylene chloride	94		92		70-130	2		30
1,1-Dichloroethane	111		109		70-130	2		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	87		85		70-130	2		30
1,2-Dichloropropane	111		109		70-130	2		30
Dibromochloromethane	81		81		70-130	0		30
1,1,2-Trichloroethane	96		95		70-130	1		30
Tetrachloroethene	82		78		70-130	5		30
Chlorobenzene	91		89		70-130	2		30
Trichlorofluoromethane	92		89		70-139	3		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	94		94		70-130	0		30
Bromodichloromethane	95		95		70-130	0		30
trans-1,3-Dichloropropene	93		92		70-130	1		30
cis-1,3-Dichloropropene	97		95		70-130	2		30
Bromoform	**69**	Q	**68**	Q	70-130	1		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	101		98		70-130	3		30
Toluene	95		94		70-130	1		30
Ethylbenzene	99		97		70-130	2		30
Chloromethane	130		126		52-130	3		30
Bromomethane	**156**	Q	**154**	Q	57-147	1		30
Vinyl chloride	120		115		67-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1261370-3 WG1261370-4								
Chloroethane	100		98		50-151	2		30
1,1-Dichloroethene	90		88		65-135	2		30
trans-1,2-Dichloroethene	92		90		70-130	2		30
Trichloroethene	91		88		70-130	3		30
1,2-Dichlorobenzene	88		86		70-130	2		30
1,3-Dichlorobenzene	88		87		70-130	1		30
1,4-Dichlorobenzene	87		84		70-130	4		30
Methyl tert butyl ether	92		92		66-130	0		30
p/m-Xylene	91		90		70-130	1		30
o-Xylene	90		88		70-130	2		30
cis-1,2-Dichloroethene	94		93		70-130	1		30
Dibromomethane	96		95		70-130	1		30
Styrene	89		87		70-130	2		30
Dichlorodifluoromethane	82		79		30-146	4		30
Acetone	**157**	Q	**159**	Q	54-140	1		30
Carbon disulfide	95		93		59-130	2		30
2-Butanone	109		106		70-130	3		30
Vinyl acetate	114		116		70-130	2		30
4-Methyl-2-pentanone	100		104		70-130	4		30
1,2,3-Trichloropropane	99		100		68-130	1		30
Bromochloromethane	88		86		70-130	2		30
1,2-Dibromoethane	89		89		70-130	0		30
1,3-Dichloropropane	101		101		69-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1261370-3 WG1261370-4								
1,1,1,2-Tetrachloroethane	81		82		70-130	1		30
n-Butylbenzene	103		100		70-130	3		30
sec-Butylbenzene	97		95		70-130	2		30
tert-Butylbenzene	92		90		70-130	2		30
o-Chlorotoluene	103		100		70-130	3		30
1,2-Dibromo-3-chloropropane	72		71		68-130	1		30
Isopropylbenzene	95		92		70-130	3		30
p-Isopropyltoluene	92		90		70-130	2		30
Naphthalene	83		82		70-130	1		30
Acrylonitrile	104		110		70-130	6		30
Tert-Butyl Alcohol	89		91		70-130	2		30
n-Propylbenzene	100		98		70-130	2		30
1,3,5-Trimethylbenzene	95		93		70-130	2		30
1,2,4-Trimethylbenzene	95		94		70-130	1		30
Methyl Acetate	122		127		51-146	4		30
Acrolein	114		111		70-130	3		30
1,4-Dioxane	92		91		65-136	1		30
Freon-113	96		93		50-139	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,03,05 Batch: WG1261370-3 WG1261370-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		117		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	107		109		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1261446-3 WG1261446-4								
Methylene chloride	113		101		70-130	11		30
1,1-Dichloroethane	103		109		70-130	6		30
Chloroform	97		102		70-130	5		30
Carbon tetrachloride	85		91		70-130	7		30
1,2-Dichloropropane	100		106		70-130	6		30
Dibromochloromethane	87		95		70-130	9		30
1,1,2-Trichloroethane	95		104		70-130	9		30
Tetrachloroethene	89		93		70-130	4		30
Chlorobenzene	90		95		70-130	5		30
Trichlorofluoromethane	**55**	Q	**58**	Q	70-139	5		30
1,2-Dichloroethane	95		101		70-130	6		30
1,1,1-Trichloroethane	93		99		70-130	6		30
Bromodichloromethane	90		96		70-130	6		30
trans-1,3-Dichloropropene	100		105		70-130	5		30
cis-1,3-Dichloropropene	93		98		70-130	5		30
Bromoform	83		93		70-130	11		30
1,1,2,2-Tetrachloroethane	99		107		70-130	8		30
Benzene	94		100		70-130	6		30
Toluene	95		102		70-130	7		30
Ethylbenzene	94		101		70-130	7		30
Chloromethane	110		119		52-130	8		30
Bromomethane	**49**	Q	**54**	Q	57-147	10		30
Vinyl chloride	77		84		67-130	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1261446-3 WG1261446-4								
Chloroethane	62		67		50-151	8		30
1,1-Dichloroethene	99		104		65-135	5		30
trans-1,2-Dichloroethene	94		99		70-130	5		30
Trichloroethene	90		96		70-130	6		30
1,2-Dichlorobenzene	86		92		70-130	7		30
1,3-Dichlorobenzene	88		92		70-130	4		30
1,4-Dichlorobenzene	87		91		70-130	4		30
Methyl tert butyl ether	95		102		66-130	7		30
p/m-Xylene	90		96		70-130	6		30
o-Xylene	88		94		70-130	7		30
cis-1,2-Dichloroethene	90		95		70-130	5		30
Dibromomethane	85		91		70-130	7		30
Styrene	88		94		70-130	7		30
Dichlorodifluoromethane	73		92		30-146	23		30
Acetone	138		138		54-140	0		30
Carbon disulfide	95		102		59-130	7		30
2-Butanone	102		108		70-130	6		30
Vinyl acetate	99		106		70-130	7		30
4-Methyl-2-pentanone	104		115		70-130	10		30
1,2,3-Trichloropropane	97		107		68-130	10		30
Bromochloromethane	84		90		70-130	7		30
1,2-Dibromoethane	89		96		70-130	8		30
1,3-Dichloropropane	98		107		69-130	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1261446-3 WG1261446-4								
1,1,1,2-Tetrachloroethane	88		96		70-130	9		30
n-Butylbenzene	99		103		70-130	4		30
sec-Butylbenzene	98		104		70-130	6		30
tert-Butylbenzene	94		100		70-130	6		30
o-Chlorotoluene	100		108		70-130	8		30
1,2-Dibromo-3-chloropropane	77		87		68-130	12		30
Isopropylbenzene	97		103		70-130	6		30
p-Isopropyltoluene	95		100		70-130	5		30
Naphthalene	87		92		70-130	6		30
Acrylonitrile	102		112		70-130	9		30
Tert-Butyl Alcohol	118		121		70-130	3		30
n-Propylbenzene	100		106		70-130	6		30
1,3,5-Trimethylbenzene	97		103		70-130	6		30
1,2,4-Trimethylbenzene	96		102		70-130	6		30
Methyl Acetate	108		121		51-146	11		30
Acrolein	**133**	Q	122		70-130	9		30
1,4-Dioxane	125		114		65-136	9		30
Freon-113	94		99		50-139	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 07 Batch: WG1261446-3 WG1261446-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	114		116		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/19/19 02:22
Analyst: RC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	36	J	ug/kg	150	19.	1
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	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
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
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	460		ug/kg	110	22.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	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	ND		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
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	220		ug/kg	110	21.	1
Benzo(a)pyrene	190		ug/kg	150	46.	1
Benzo(b)fluoranthene	250		ug/kg	110	32.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02 Date Collected: 07/16/19 09:05

Client ID: WC-1 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(k)fluoranthene	98	J	ug/kg	110	30.	1
Chrysene	240		ug/kg	110	20.	1
Acenaphthylene	32	J	ug/kg	150	29.	1
Anthracene	68	J	ug/kg	110	36.	1
Benzo(ghi)perylene	120	J	ug/kg	150	22.	1
Fluorene	37	J	ug/kg	190	18.	1
Phenanthrene	350		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	34	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	150	26.	1
Pyrene	400		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
Aniline	ND		ug/kg	220	88.	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	18	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	190	23.	1
n-Nitrosodimethylamine	ND		ug/kg	380	36.	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	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	47	J	ug/kg	190	18.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02 Date Collected: 07/16/19 09:05

Client ID: WC-1 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Parathion	ND		ug/kg	380	380	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1
Caprolactam	ND		ug/kg	190	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	73		18-120

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/19 23:17
Analyst: RC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 18:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Benzidine	ND		ug/kg	640	210	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
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Azobenzene	ND		ug/kg	190	19.	1
Fluoranthene	ND		ug/kg	120	22.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	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
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	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04 Date Collected: 07/16/19 09:25

Client ID: WC-2 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	ND		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
Aniline	ND		ug/kg	230	92.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	37.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
Acetophenone	ND		ug/kg	190	24.	1
n-Nitrosodimethylamine	ND		ug/kg	390	37.	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	160	43.	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
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

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04 Date Collected: 07/16/19 09:25

Client ID: WC-2 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Parathion	ND		ug/kg	390	390	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	52.	1
Caprolactam	ND		ug/kg	190	59.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	64		18-120

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/19/19 04:34
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	67	J	ug/kg	150	19.	1
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	1100		ug/kg	110	21.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	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	120	J	ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	200		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	610		ug/kg	110	21.	1
Benzo(a)pyrene	500		ug/kg	150	45.	1
Benzo(b)fluoranthene	710		ug/kg	110	31.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06 Date Collected: 07/16/19 09:45

Client ID: WC-3 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(k)fluoranthene	230		ug/kg	110	30.	1
Chrysene	620		ug/kg	110	19.	1
Acenaphthylene	91	J	ug/kg	150	29.	1
Anthracene	180		ug/kg	110	36.	1
Benzo(ghi)perylene	290		ug/kg	150	22.	1
Fluorene	70	J	ug/kg	190	18.	1
Phenanthrene	720		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	83	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	320		ug/kg	150	26.	1
Pyrene	920		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
Aniline	ND		ug/kg	220	88.	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	77.	1
Dibenzofuran	44	J	ug/kg	190	18.	1
2-Methylnaphthalene	64	J	ug/kg	220	22.	1
Acetophenone	ND		ug/kg	190	23.	1
n-Nitrosodimethylamine	ND		ug/kg	370	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	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	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	210		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	56	J	ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	36	J	ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	86	J	ug/kg	190	18.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06 Date Collected: 07/16/19 09:45

Client ID: WC-3 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Parathion	ND		ug/kg	370	370	1
Atrazine	ND		ug/kg	150	65.	1
Benzaldehyde	ND		ug/kg	250	50.	1
Caprolactam	ND		ug/kg	190	57.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	17		10-136
4-Terphenyl-d14	72		18-120

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/19 22:50
Analyst: RC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Benzidine	ND		ug/kg	690	230	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	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
Azobenzene	ND		ug/kg	210	20.	1
Fluoranthene	ND		ug/kg	120	24.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	72.	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	71.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	ND		ug/kg	120	24.	1
Benzo(a)pyrene	ND		ug/kg	170	51.	1
Benzo(b)fluoranthene	ND		ug/kg	120	35.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08 Date Collected: 07/16/19 10:05

Client ID: WC-4 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	ND		ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	29.	1
Pyrene	ND		ug/kg	120	21.	1
Biphenyl	ND		ug/kg	480	48.	1
Aniline	ND		ug/kg	250	98.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	86.	1
Dibenzofuran	ND		ug/kg	210	20.	1
2-Methylnaphthalene	79	J	ug/kg	250	25.	1
Acetophenone	ND		ug/kg	210	26.	1
n-Nitrosodimethylamine	ND		ug/kg	420	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	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	69.	1
2-Nitrophenol	ND		ug/kg	450	78.	1
4-Nitrophenol	ND		ug/kg	290	85.	1
2,4-Dinitrophenol	ND		ug/kg	1000	97.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	ND		ug/kg	210	20.	1

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08 Date Collected: 07/16/19 10:05

Client ID: WC-4 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Parathion	ND		ug/kg	420	420	1
Atrazine	ND		ug/kg	170	73.	1
Benzaldehyde	ND		ug/kg	280	56.	1
Caprolactam	ND		ug/kg	210	63.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		25-120
Phenol-d6	47		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	42		30-120
2,4,6-Tribromophenol	36		10-136
4-Terphenyl-d14	34		18-120

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/19 01:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 03:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1260763-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
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.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
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	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	45	J	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.

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/19 01:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 03:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1260763-1					
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.
Aniline	ND		ug/kg	200	77.
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	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	31.
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.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/19 01:24
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 03:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1260763-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	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.
Parathion	ND		ug/kg	330	330
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	119		25-120
Phenol-d6	**126**	Q	10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	113		18-120

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/19 21:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06,08 Batch: WG1260798-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
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.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	97	J	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	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/19 21:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06,08 Batch: WG1260798-1					
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.
Aniline	ND		ug/kg	200	77.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	31.
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	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/19 21:38
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/17/19 05:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02,06,08 Batch: WG1260798-1					
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	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.
Parathion	ND		ug/kg	330	330
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	76		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1260763-2 WG1260763-3								
Acenaphthene	112		83		31-137	30		50
Benzidine	60		46		10-66	26		50
1,2,4-Trichlorobenzene	105		76		38-107	32		50
Hexachlorobenzene	118		91		40-140	26		50
Bis(2-chloroethyl)ether	102		73		40-140	33		50
2-Chloronaphthalene	115		84		40-140	31		50
3,3'-Dichlorobenzidine	83		68		40-140	20		50
2,4-Dinitrotoluene	124		94		40-132	28		50
2,6-Dinitrotoluene	125		94		40-140	28		50
Azobenzene	112		84		40-140	29		50
Fluoranthene	120		94		40-140	24		50
Bis(2-chloroisopropyl)ether	97		69		40-140	34		50
Hexachlorobutadiene	107		77		40-140	33		50
Hexachlorocyclopentadiene	114		85		40-140	29		50
Hexachloroethane	98		69		40-140	35		50
Isophorone	114		83		40-140	31		50
Nitrobenzene	113		81		40-140	33		50
NDPA/DPA	121		90		36-157	29		50
n-Nitrosodi-n-propylamine	113		82		32-121	32		50
Bis(2-ethylhexyl)phthalate	113		82		40-140	32		50
Butyl benzyl phthalate	116		89		40-140	26		50
Di-n-butylphthalate	125		94		40-140	28		50
Di-n-octylphthalate	125		91		40-140	31		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1260763-2 WG1260763-3								
Diethyl phthalate	118		88		40-140	29		50
Dimethyl phthalate	122		90		40-140	30		50
Benzo(a)anthracene	114		87		40-140	27		50
Benzo(a)pyrene	140		108		40-140	26		50
Benzo(b)fluoranthene	120		93		40-140	25		50
Benzo(k)fluoranthene	119		90		40-140	28		50
Chrysene	107		81		40-140	28		50
Acenaphthylene	121		90		40-140	29		50
Anthracene	119		91		40-140	27		50
Benzo(ghi)perylene	116		88		40-140	27		50
Fluorene	117		88		40-140	28		50
Phenanthrene	113		85		40-140	28		50
Dibenzo(a,h)anthracene	119		88		40-140	30		50
Indeno(1,2,3-cd)pyrene	124		94		40-140	28		50
Pyrene	116		91		35-142	24		50
Biphenyl	**125**	Q	91		54-104	31		50
Aniline	91		68		40-140	29		50
4-Chloroaniline	93		70		40-140	28		50
2-Nitroaniline	128		96		47-134	29		50
3-Nitroaniline	108		83		26-129	26		50
4-Nitroaniline	**126**	Q	99		41-125	24		50
Dibenzofuran	112		84		40-140	29		50
2-Methylnaphthalene	112		82		40-140	31		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1260763-2 WG1260763-3								
Acetophenone	122		90		14-144	30		50
n-Nitrosodimethylamine	**102**	Q	72		22-100	34		50
2,4,6-Trichlorophenol	130		99		30-130	27		50
p-Chloro-m-cresol	**123**	Q	92		26-103	29		50
2-Chlorophenol	**113**	Q	81		25-102	33		50
2,4-Dichlorophenol	123		91		30-130	30		50
2,4-Dimethylphenol	122		89		30-130	31		50
2-Nitrophenol	128		93		30-130	32		50
4-Nitrophenol	**116**	Q	92		11-114	23		50
2,4-Dinitrophenol	123		99		4-130	22		50
4,6-Dinitro-o-cresol	130		104		10-130	22		50
Pentachlorophenol	**122**	Q	95		17-109	25		50
Phenol	**103**	Q	75		26-90	31		50
2-Methylphenol	115		83		30-130.	32		50
3-Methylphenol/4-Methylphenol	114		84		30-130	30		50
2,4,5-Trichlorophenol	130		98		30-130	28		50
Benzoic Acid	103		77		10-110	29		50
Benzyl Alcohol	113		83		40-140	31		50
Carbazole	116		90		54-128	25		50
Parathion	**177**	Q	138		40-140	25		50
Atrazine	138		105		40-140	27		50
Benzaldehyde	108		73		40-140	39		50
Caprolactam	**138**	Q	103		15-130	29		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1260763-2 WG1260763-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	104		73		25-120
Phenol-d6	105		75		10-120
Nitrobenzene-d5	105		74		23-120
2-Fluorobiphenyl	104		75		30-120
2,4,6-Tribromophenol	116		89		10-136
4-Terphenyl-d14	101		76		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260798-2 WG1260798-3								
Acenaphthene	76		79		31-137	4		50
Benzidine	**8**	Q	**8**	Q	10-66	4		50
1,2,4-Trichlorobenzene	73		78		38-107	7		50
Hexachlorobenzene	84		90		40-140	7		50
Bis(2-chloroethyl)ether	72		79		40-140	9		50
2-Chloronaphthalene	72		76		40-140	5		50
3,3'-Dichlorobenzidine	77		83		40-140	8		50
2,4-Dinitrotoluene	90		93		40-132	3		50
2,6-Dinitrotoluene	83		87		40-140	5		50
Azobenzene	86		90		40-140	5		50
Fluoranthene	81		83		40-140	2		50
Bis(2-chloroisopropyl)ether	58		61		40-140	5		50
Hexachlorobutadiene	76		80		40-140	5		50
Hexachlorocyclopentadiene	55		60		40-140	9		50
Hexachloroethane	74		80		40-140	8		50
Isophorone	78		83		40-140	6		50
Nitrobenzene	78		84		40-140	7		50
NDPA/DPA	79		82		36-157	4		50
n-Nitrosodi-n-propylamine	81		85		32-121	5		50
Bis(2-ethylhexyl)phthalate	80		83		40-140	4		50
Butyl benzyl phthalate	89		92		40-140	3		50
Di-n-butylphthalate	89		91		40-140	2		50
Di-n-octylphthalate	90		92		40-140	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260798-2 WG1260798-3								
Diethyl phthalate	80		83		40-140	4		50
Dimethyl phthalate	82		84		40-140	2		50
Benzo(a)anthracene	83		86		40-140	4		50
Benzo(a)pyrene	79		80		40-140	1		50
Benzo(b)fluoranthene	87		92		40-140	6		50
Benzo(k)fluoranthene	73		74		40-140	1		50
Chrysene	74		78		40-140	5		50
Acenaphthylene	77		80		40-140	4		50
Anthracene	81		83		40-140	2		50
Benzo(ghi)perylene	84		87		40-140	4		50
Fluorene	79		82		40-140	4		50
Phenanthrene	76		82		40-140	8		50
Dibenzo(a,h)anthracene	85		90		40-140	6		50
Indeno(1,2,3-cd)pyrene	86		96		40-140	11		50
Pyrene	78		82		35-142	5		50
Biphenyl	79		82		54-104	4		50
Aniline	64		69		40-140	8		50
4-Chloroaniline	60		66		40-140	10		50
2-Nitroaniline	88		93		47-134	6		50
3-Nitroaniline	69		74		26-129	7		50
4-Nitroaniline	79		84		41-125	6		50
Dibenzofuran	80		83		40-140	4		50
2-Methylnaphthalene	74		78		40-140	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260798-2 WG1260798-3								
Acetophenone	84		89		14-144	6		50
n-Nitrosodimethylamine	71		82		22-100	14		50
2,4,6-Trichlorophenol	85		88		30-130	3		50
p-Chloro-m-cresol	86		91		26-103	6		50
2-Chlorophenol	85		88		25-102	3		50
2,4-Dichlorophenol	83		88		30-130	6		50
2,4-Dimethylphenol	80		86		30-130	7		50
2-Nitrophenol	86		92		30-130	7		50
4-Nitrophenol	84		91		11-114	8		50
2,4-Dinitrophenol	77		82		4-130	6		50
4,6-Dinitro-o-cresol	101		104		10-130	3		50
Pentachlorophenol	75		79		17-109	5		50
Phenol	77		81		26-90	5		50
2-Methylphenol	89		93		30-130.	4		50
3-Methylphenol/4-Methylphenol	92		97		30-130	5		50
2,4,5-Trichlorophenol	87		93		30-130	7		50
Benzoic Acid	60		61		10-110	2		50
Benzyl Alcohol	86		92		40-140	7		50
Carbazole	82		86		54-128	5		50
Parathion	108		112		40-140	4		50
Atrazine	94		99		40-140	5		50
Benzaldehyde	91		98		40-140	7		50
Caprolactam	84		88		15-130	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260798-2 WG1260798-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		93		25-120
Phenol-d6	90		94		10-120
Nitrobenzene-d5	82		89		23-120
2-Fluorobiphenyl	74		78		30-120
2,4,6-Tribromophenol	92		100		10-136
4-Terphenyl-d14	82		84		18-120

PETROLEUM HYDROCARBONS

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 10:55
Analyst: LL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 07/18/19 20:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	44.0		mg/kg	27.5	27.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	73		40-140

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 09:17
Analyst: SR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/18/19 02:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	69.9		mg/kg	27.1	27.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	92		40-140
o-Terphenyl	94		40-140

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 09:25
Analyst: LL
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/18/19 20:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	313		mg/kg	26.8	26.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		40-140
o-Terphenyl	57		40-140

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 21:54
Analyst: LL
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 07/19/19 10:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	101		mg/kg	29.8	29.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	84		40-140
o-Terphenyl	83		40-140

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 08:49
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 07/18/19 02:27

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 04 Batch: WG1261282-1					
Total EPH	ND		mg/kg	22.8	22.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	83		40-140

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 07/19/19 08:55
Analyst: LL

Extraction Method: EPA 3546
Extraction Date: 07/18/19 20:51

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 02,06,08 Batch: WG1261769-1					
Total EPH	ND		mg/kg	23.6	23.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	71		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04 Batch: WG1261282-2 WG1261282-3								
Total EPH	123		116		40-140	6		25
Nonane (C9)	99		94		40-140	5		25
Decane (C10)	119		110		40-140	8		25
Dodecane (C12)	105		99		40-140	6		25
Tetradecane (C14)	105		98		40-140	7		25
Hexadecane (C16)	109		101		40-140	8		25
Octadecane (C18)	113		105		40-140	7		25
Eicosane (C20)	111		103		40-140	7		25
Heneicosane (C21)	112		104		40-140	7		25
Docosane (C22)	111		103		40-140	7		25
Tetracosane (C24)	112		103		40-140	8		25
Hexacosane (C26)	112		104		40-140	7		25
Octacosane (C28)	113		102		40-140	10		25
Triacontane (C30)	110		102		40-140	8		25
Dotriacontane (C32)	110		102		40-140	8		25
Tetratriacontane (C34)	109		101		40-140	8		25
Hexatriacontane (C36)	114		106		40-140	7		25
Octatriacontane (C38)	116		108		40-140	7		25
Tetracontane (C40)	121		114		40-140	6		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04 Batch: WG1261282-2 WG1261282-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	102		94		40-140
o-Terphenyl	102		94		40-140

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1261769-2 WG1261769-3								
Total EPH	79		82		40-140	4		25
Nonane (C9)	64		62		40-140	3		25
Decane (C10)	75		74		40-140	1		25
Dodecane (C12)	69		68		40-140	1		25
Tetradecane (C14)	69		68		40-140	1		25
Hexadecane (C16)	71		72		40-140	1		25
Octadecane (C18)	73		76		40-140	4		25
Eicosane (C20)	73		76		40-140	4		25
Heneicosane (C21)	73		76		40-140	4		25
Docosane (C22)	74		77		40-140	4		25
Tetracosane (C24)	74		78		40-140	5		25
Hexacosane (C26)	74		78		40-140	5		25
Octacosane (C28)	74		77		40-140	4		25
Triacontane (C30)	75		79		40-140	5		25
Dotriacontane (C32)	76		80		40-140	5		25
Tetratriacontane (C34)	74		78		40-140	5		25
Hexatriacontane (C36)	76		80		40-140	5		25
Octatriacontane (C38)	75		81		40-140	8		25
Tetracontane (C40)	72		77		40-140	7		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab	Associated sample(s): 02,06,08		Batch: WG1261769-2		WG1261769-3			

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	70		73		40-140
o-Terphenyl	68		70		40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747
Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1261282-4 QC Sample: L1931123-04 Client ID: WC-2 COMP												
Total EPH	69.9	282	370	106		-	-		40-140	-		50
Nonane (C9)	ND	7.84	5.93	76		-	-		40-140	-		50
Decane (C10)	ND	7.84	7.22	92		-	-		40-140	-		50
Dodecane (C12)	ND	7.84	6.80	87		-	-		40-140	-		50
Tetradecane (C14)	ND	7.84	6.98	89		-	-		40-140	-		50
Hexadecane (C16)	ND	7.84	7.42	95		-	-		40-140	-		50
Octadecane (C18)	ND	7.84	7.77	99		-	-		40-140	-		50
Eicosane (C20)	ND	7.84	7.69	98		-	-		40-140	-		50
Heneicosane (C21)	ND	7.84	7.69	98		-	-		40-140	-		50
Docosane (C22)	ND	7.84	7.65	98		-	-		40-140	-		50
Tetracosane (C24)	ND	7.84	7.70	98		-	-		40-140	-		50
Hexacosane (C26)	ND	7.84	7.67	98		-	-		40-140	-		50
Octacosane (C28)	ND	7.84	7.56	96		-	-		40-140	-		50
Triacontane (C30)	ND	7.84	7.54	96		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.84	7.59	97		-	-		40-140	-		50
Tetratriacontane (C34)	ND	7.84	7.40	94		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.84	7.85	100		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.84	8.01	102		-	-		40-140	-		50
Tetracontane (C40)	ND	7.84	8.42	107		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	84				40-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1261282-4 QC Sample: L1931123-04 Client ID: WC-2 COMP												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
o-Terphenyl	84				40-140

Matrix Spike Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747
Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02,06,08 QC Batch ID: WG1261769-4 QC Sample: L1931123-06 Client ID: WC-3 COMP												
Total EPH	313	266	708	**148**	Q	-	-		40-140	-		50
Nonane (C9)	ND	7.4	4.70	64		-	-		40-140	-		50
Decane (C10)	ND	7.4	5.58	75		-	-		40-140	-		50
Dodecane (C12)	ND	7.4	5.43	73		-	-		40-140	-		50
Tetradecane (C14)	ND	7.4	5.71	77		-	-		40-140	-		50
Hexadecane (C16)	ND	7.4	5.89	80		-	-		40-140	-		50
Octadecane (C18)	ND	7.4	6.10	82		-	-		40-140	-		50
Eicosane (C20)	ND	7.4	6.24	84		-	-		40-140	-		50
Heneicosane (C21)	ND	7.4	6.18	84		-	-		40-140	-		50
Docosane (C22)	ND	7.4	6.05	82		-	-		40-140	-		50
Tetracosane (C24)	ND	7.4	6.26	85		-	-		40-140	-		50
Hexacosane (C26)	ND	7.4	6.24	84		-	-		40-140	-		50
Octacosane (C28)	ND	7.4	6.13	83		-	-		40-140	-		50
Triacontane (C30)	ND	7.4	6.07	82		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.4	6.43	87		-	-		40-140	-		50
Tetratriacontane (C34)	ND	7.4	6.02	81		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.4	6.28	85		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.4	6.86	93		-	-		40-140	-		50
Tetracontane (C40)	ND	7.4	6.65	90		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	78				40-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02,06,08 QC Batch ID: WG1261769-4 QC Sample: L1931123-06 Client ID: WC-3 COMP												

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
o-Terphenyl	73				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1261282-5 QC Sample: L1931123-04 Client ID: WC-2 COMP						
Total EPH	69.9	83.7	mg/kg	18		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	92		91		40-140
o-Terphenyl	94		92		40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02,06,08 QC Batch ID: WG1261769-5 QC Sample: L1931123-06 Client ID: WC-3 COMP						
Total EPH	313	389	mg/kg	22		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	57		66		40-140
o-Terphenyl	57		65		40-140

PCBS

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/19 20:15
Analyst: WR
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 06:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	3.24	1	A
Aroclor 1221	ND		ug/kg	36.5	3.65	1	A
Aroclor 1232	ND		ug/kg	36.5	7.73	1	A
Aroclor 1242	ND		ug/kg	36.5	4.92	1	A
Aroclor 1248	6.96	J	ug/kg	36.5	5.47	1	B
Aroclor 1254	ND		ug/kg	36.5	3.99	1	A
Aroclor 1260	ND		ug/kg	36.5	6.74	1	A
Aroclor 1262	ND		ug/kg	36.5	4.63	1	A
Aroclor 1268	ND		ug/kg	36.5	3.78	1	A
PCBs, Total	6.96	J	ug/kg	36.5	3.24	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	100		30-150	B

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/19 20:28
Analyst: WR
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/18/19 00:58
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.7	3.35	1	A
Aroclor 1221	ND		ug/kg	37.7	3.78	1	A
Aroclor 1232	ND		ug/kg	37.7	7.99	1	A
Aroclor 1242	ND		ug/kg	37.7	5.08	1	A
Aroclor 1248	ND		ug/kg	37.7	5.66	1	A
Aroclor 1254	ND		ug/kg	37.7	4.12	1	A
Aroclor 1260	ND		ug/kg	37.7	6.97	1	A
Aroclor 1262	ND		ug/kg	37.7	4.79	1	A
Aroclor 1268	ND		ug/kg	37.7	3.90	1	A
PCBs, Total	ND		ug/kg	37.7	3.35	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	147		30-150	B
Decachlorobiphenyl	93		30-150	B

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/19 20:41
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 06:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.3	3.22	1	A
Aroclor 1221	ND		ug/kg	36.3	3.63	1	A
Aroclor 1232	ND		ug/kg	36.3	7.69	1	A
Aroclor 1242	ND		ug/kg	36.3	4.89	1	A
Aroclor 1248	ND		ug/kg	36.3	5.44	1	A
Aroclor 1254	182		ug/kg	36.3	3.97	1	B
Aroclor 1260	ND		ug/kg	36.3	6.70	1	A
Aroclor 1262	ND		ug/kg	36.3	4.61	1	A
Aroclor 1268	ND		ug/kg	36.3	3.76	1	A
PCBs, Total	182		ug/kg	36.3	3.22	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	59		30-150	B

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/19 20:54
Analyst: WR
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 06:36
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	40.4	3.59	1	A
Aroclor 1221	ND		ug/kg	40.4	4.05	1	A
Aroclor 1232	ND		ug/kg	40.4	8.56	1	A
Aroclor 1242	ND		ug/kg	40.4	5.44	1	A
Aroclor 1248	ND		ug/kg	40.4	6.06	1	A
Aroclor 1254	ND		ug/kg	40.4	4.42	1	A
Aroclor 1260	ND		ug/kg	40.4	7.46	1	A
Aroclor 1262	ND		ug/kg	40.4	5.13	1	A
Aroclor 1268	ND		ug/kg	40.4	4.18	1	A
PCBs, Total	ND		ug/kg	40.4	3.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/17/19 17:37
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 07/17/19 00:18
Cleanup Method: EPA 3665A
Cleanup Date: 07/17/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02,06,08 Batch: WG1260710-1						
Aroclor 1016	ND		ug/kg	32.4	2.88	A
Aroclor 1221	ND		ug/kg	32.4	3.25	A
Aroclor 1232	ND		ug/kg	32.4	6.88	A
Aroclor 1242	ND		ug/kg	32.4	4.37	A
Aroclor 1248	ND		ug/kg	32.4	4.87	A
Aroclor 1254	ND		ug/kg	32.4	3.55	A
Aroclor 1260	ND		ug/kg	32.4	6.00	A
Aroclor 1262	ND		ug/kg	32.4	4.12	A
Aroclor 1268	ND		ug/kg	32.4	3.36	A
PCBs, Total	ND		ug/kg	32.4	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/18/19 16:18
Analyst: AWS

Extraction Method: EPA 3546
Extraction Date: 07/18/19 00:58
Cleanup Method: EPA 3665A
Cleanup Date: 07/18/19
Cleanup Method: EPA 3660B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1261257-1						
Aroclor 1016	ND		ug/kg	33.0	2.93	A
Aroclor 1221	ND		ug/kg	33.0	3.31	A
Aroclor 1232	ND		ug/kg	33.0	7.00	A
Aroclor 1242	ND		ug/kg	33.0	4.45	A
Aroclor 1248	ND		ug/kg	33.0	4.95	A
Aroclor 1254	ND		ug/kg	33.0	3.61	A
Aroclor 1260	ND		ug/kg	33.0	6.10	A
Aroclor 1262	ND		ug/kg	33.0	4.19	A
Aroclor 1268	ND		ug/kg	33.0	3.42	A
PCBs, Total	ND		ug/kg	33.0	2.93	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260710-2 WG1260710-3									
Aroclor 1016	59		59		40-140	0		50	A
Aroclor 1260	55		54		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		65		30-150	A
Decachlorobiphenyl	66		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	63		61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1261257-2 WG1261257-3									
Aroclor 1016	88		96		40-140	9		50	A
Aroclor 1260	56		63		40-140	12		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		99		30-150	A
Decachlorobiphenyl	53		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		93		30-150	B
Decachlorobiphenyl	67		71		30-150	B

PESTICIDES

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/19/19 09:44
Analyst: AMC
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 00:58
Cleanup Method: EPA 3620B
Cleanup Date: 07/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.353	1	A
Lindane	ND		ug/kg	0.751	0.336	1	A
Alpha-BHC	ND		ug/kg	0.751	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.684	1	A
Heptachlor	ND		ug/kg	0.902	0.404	1	A
Aldrin	ND		ug/kg	1.80	0.635	1	A
Heptachlor epoxide	ND		ug/kg	3.38	1.01	1	A
Endrin	ND		ug/kg	0.751	0.308	1	A
Dieldrin	ND		ug/kg	1.13	0.564	1	A
4,4'-DDE	ND		ug/kg	1.80	0.417	1	A
4,4'-DDD	ND		ug/kg	1.80	0.643	1	A
4,4'-DDT	ND		ug/kg	3.38	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.426	1	A
Endosulfan II	ND		ug/kg	1.80	0.603	1	A
Endosulfan sulfate	ND		ug/kg	0.751	0.358	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.47	1	A
cis-Chlordane	ND		ug/kg	2.25	0.628	1	A
trans-Chlordane	ND		ug/kg	2.25	0.595	1	A
Chlordane	ND		ug/kg	14.6	5.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	134		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	105		30-150	A

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY
Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 07/19/19 10:59
Analyst: DGM
Percent Solids: 86%
Methylation Date: 07/19/19 07:47
Extraction Method: EPA 8151A
Extraction Date: 07/18/19 15:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
Dicamba	ND		ug/kg	38.2	6.43	1	A
2,4-D	ND		ug/kg	191	12.0	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	86		30-150	B

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/19/19 02:49
Analyst: AMC
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 07/18/19 01:38
Cleanup Method: EPA 3620B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.755	0.338	1	A
Alpha-BHC	ND		ug/kg	0.755	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.687	1	A
Heptachlor	ND		ug/kg	0.906	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND		ug/kg	0.755	0.310	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.647	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.755	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	ND		ug/kg	2.27	0.632	1	A
trans-Chlordane	ND		ug/kg	2.27	0.598	1	A
Chlordane	ND		ug/kg	14.7	6.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	129		30-150	B
2,4,5,6-Tetrachloro-m-xylene	100		30-150	A
Decachlorobiphenyl	119		30-150	A

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 07/19/19 11:17
Analyst: DGM
Percent Solids: 83%
Methylation Date: 07/19/19 07:47

Extraction Method: EPA 8151A
Extraction Date: 07/18/19 15:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
Dicamba	ND		ug/kg	39.0	6.56	1	A
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.05	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.19	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	95		30-150	B

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/19/19 09:57
Analyst: AMC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 00:58
Cleanup Method: EPA 3620B
Cleanup Date: 07/17/19

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	0.734	0.328	1	A
Alpha-BHC	ND		ug/kg	0.734	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.668	1	A
Heptachlor	ND		ug/kg	0.881	0.395	1	A
Aldrin	ND		ug/kg	1.76	0.620	1	A
Heptachlor epoxide	ND		ug/kg	3.30	0.991	1	A
Endrin	ND		ug/kg	0.734	0.301	1	A
Dieldrin	ND		ug/kg	1.10	0.550	1	A
4,4'-DDE	ND		ug/kg	1.76	0.407	1	A
4,4'-DDD	ND		ug/kg	1.76	0.628	1	A
4,4'-DDT	ND		ug/kg	3.30	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	ND		ug/kg	1.76	0.589	1	A
Endosulfan sulfate	ND		ug/kg	0.734	0.349	1	A
Methoxychlor	ND		ug/kg	3.30	1.03	1	A
Toxaphene	ND		ug/kg	33.0	9.25	1	A
cis-Chlordane	ND		ug/kg	2.20	0.614	1	A
trans-Chlordane	ND		ug/kg	2.20	0.581	1	A
Chlordane	ND		ug/kg	14.3	5.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	147		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	113		30-150	A

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY
Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 07/19/19 11:35
Analyst: DGM
Percent Solids: 88%
Methylation Date: 07/19/19 07:47
Extraction Method: EPA 8151A
Extraction Date: 07/18/19 15:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
Dicamba	ND		ug/kg	36.9	6.21	1	A
2,4-D	ND		ug/kg	185	11.6	1	A
2,4,5-T	ND		ug/kg	185	5.73	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	100		30-150	B

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 07/19/19 05:12
Analyst: AMC
Percent Solids: 79%

Extraction Method: EPA 3546
Extraction Date: 07/17/19 00:58
Cleanup Method: EPA 3620B
Cleanup Date: 07/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.385	1	A
Lindane	ND		ug/kg	0.820	0.366	1	A
Alpha-BHC	ND		ug/kg	0.820	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.746	1	A
Heptachlor	ND		ug/kg	0.984	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.693	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.820	0.336	1	A
Dieldrin	ND		ug/kg	1.23	0.615	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.702	1	A
4,4'-DDT	ND		ug/kg	3.69	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.465	1	A
Endosulfan II	ND		ug/kg	1.97	0.658	1	A
Endosulfan sulfate	ND		ug/kg	0.820	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.685	1	A
trans-Chlordane	ND		ug/kg	2.46	0.649	1	A
Chlordane	ND		ug/kg	16.0	6.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	112		30-150	B
2,4,5,6-Tetrachloro-m-xylene	**307**	Q	30-150	A
Decachlorobiphenyl	107		30-150	A

Project Name: 1660 BOONE AVE.
Lab Number: L1931123
Project Number: 13747
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY
Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 07/19/19 11:52
Analyst: DGM
Percent Solids: 79%
Methylation Date: 07/19/19 07:47
Extraction Method: EPA 8151A
Extraction Date: 07/18/19 15:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
Dicamba	ND		ug/kg	40.7	6.83	1	A
2,4-D	ND		ug/kg	203	12.8	1	A
2,4,5-T	ND		ug/kg	203	6.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	203	5.41	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	82		30-150	B

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/18/19 19:16
Analyst: BM

Extraction Method: EPA 3546
Extraction Date: 07/17/19 12:00
Cleanup Method: EPA 3620B
Cleanup Date: 07/17/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02,06,08 Batch: WG1260736-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.651	0.291	A
Alpha-BHC	ND		ug/kg	0.651	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.781	0.350	A
Aldrin	ND		ug/kg	1.56	0.550	A
Heptachlor epoxide	ND		ug/kg	2.93	0.878	A
Endrin	ND		ug/kg	0.651	0.267	A
Dieldrin	ND		ug/kg	0.976	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.557	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.522	A
Endosulfan sulfate	ND		ug/kg	0.651	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.911	A
Toxaphene	ND		ug/kg	29.3	8.20	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.17	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 07/19/19 01:19
Analyst: AMC

Extraction Method: EPA 3546
Extraction Date: 07/18/19 01:38
Cleanup Method: EPA 3620B
Cleanup Date: 07/18/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1261270-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.649	0.290	A
Alpha-BHC	ND		ug/kg	0.649	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.591	A
Heptachlor	ND		ug/kg	0.779	0.349	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.877	A
Endrin	ND		ug/kg	0.649	0.266	A
Dieldrin	ND		ug/kg	0.974	0.487	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.649	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.909	A
Toxaphene	ND		ug/kg	29.2	8.18	A
cis-Chlordane	ND		ug/kg	1.95	0.543	A
trans-Chlordane	ND		ug/kg	1.95	0.514	A
Chlordane	ND		ug/kg	12.7	5.16	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	114		30-150	A

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 07/19/19 13:04
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 07/18/19 15:37

Methylation Date: 07/19/19 07:47

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02,04,06,08 Batch: WG1261658-1						
Dicamba	ND		ug/kg	32.8	5.51	A
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260736-2 WG1260736-3									
Delta-BHC	100		90		30-150	11		30	A
Lindane	102		91		30-150	11		30	A
Alpha-BHC	103		92		30-150	11		30	A
Beta-BHC	97		85		30-150	13		30	A
Heptachlor	88		83		30-150	6		30	A
Aldrin	80		74		30-150	8		30	A
Heptachlor epoxide	89		81		30-150	9		30	A
Endrin	94		85		30-150	10		30	A
Dieldrin	93		85		30-150	9		30	A
4,4'-DDE	87		80		30-150	8		30	A
4,4'-DDD	96		87		30-150	10		30	A
4,4'-DDT	88		82		30-150	7		30	A
Endosulfan I	80		74		30-150	8		30	A
Endosulfan II	84		78		30-150	7		30	A
Endosulfan sulfate	69		66		30-150	4		30	A
Methoxychlor	74		71		30-150	4		30	A
cis-Chlordane	83		76		30-150	9		30	A
trans-Chlordane	79		72		30-150	9		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02,06,08 Batch: WG1260736-2 WG1260736-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		83		30-150	B
Decachlorobiphenyl	94		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	A
Decachlorobiphenyl	70		66		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1261270-2 WG1261270-3									
Delta-BHC	103		101		30-150	2		30	A
Lindane	103		100		30-150	3		30	A
Alpha-BHC	107		104		30-150	3		30	A
Beta-BHC	92		91		30-150	1		30	A
Heptachlor	112		112		30-150	0		30	A
Aldrin	106		105		30-150	1		30	A
Heptachlor epoxide	111		110		30-150	1		30	A
Endrin	107		107		30-150	0		30	A
Dieldrin	112		112		30-150	0		30	A
4,4'-DDE	104		104		30-150	0		30	A
4,4'-DDD	106		108		30-150	2		30	A
4,4'-DDT	107		107		30-150	0		30	A
Endosulfan I	100		99		30-150	1		30	A
Endosulfan II	100		100		30-150	0		30	A
Endosulfan sulfate	53		66		30-150	22		30	A
Methoxychlor	115		118		30-150	3		30	A
cis-Chlordane	93		94		30-150	1		30	A
trans-Chlordane	74		76		30-150	3		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1261270-2 WG1261270-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		95		30-150	B
Decachlorobiphenyl	101		100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		88		30-150	A
Decachlorobiphenyl	100		99		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02,04,06,08 Batch: WG1261658-2 WG1261658-3									
Dicamba	94		94		30-150	0		30	A
2,4-D	131		118		30-150	10		30	A
2,4,5-T	99		99		30-150	0		30	A
2,4,5-TP (Silvex)	98		98		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		92		30-150	A
DCAA	83		83		30-150	B

METALS

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02 Date Collected: 07/16/19 09:05

Client ID: WC-1 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/17/19 14:50

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Barium, TCLP	0.458	J	mg/l	0.500	0.021	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Lead, TCLP	0.094	J	mg/l	0.500	0.027	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/18/19 18:40	07/19/19 11:38	EPA 7470A	1,7470A	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	07/18/19 14:02	07/18/19 20:38	EPA 3015	1,6010D	AB

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02 Date Collected: 07/16/19 09:05

Client ID: WC-1 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, 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	11700		mg/kg	8.74	2.36	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Antimony, Total	0.892	J	mg/kg	4.37	0.332	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Arsenic, Total	8.15		mg/kg	0.874	0.182	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Barium, Total	74.6		mg/kg	0.874	0.152	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Beryllium, Total	0.324	J	mg/kg	0.437	0.029	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.874	0.086	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Chromium, Total	20.2		mg/kg	0.874	0.084	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Cobalt, Total	8.46		mg/kg	1.75	0.145	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Copper, Total	30.1		mg/kg	0.874	0.226	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Iron, Total	18200		mg/kg	4.37	0.790	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Lead, Total	45.8		mg/kg	4.37	0.234	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Manganese, Total	282		mg/kg	0.874	0.139	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Mercury, Total	0.080		mg/kg	0.073	0.047	1	07/18/19 11:00	07/19/19 11:09	EPA 7471B	1,7471B	GD
Nickel, Total	16.3		mg/kg	2.19	0.212	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Selenium, Total	0.367	J	mg/kg	1.75	0.226	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.874	0.247	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.75	0.275	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Vanadium, Total	28.4		mg/kg	0.874	0.178	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
Zinc, Total	107		mg/kg	4.37	0.256	2	07/18/19 19:17	07/19/19 11:48	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.93	0.93	1		07/19/19 11:48	NA	107,-	

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04 Date Collected: 07/16/19 09:25

Client ID: WC-2 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/17/19 14:50

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Barium, TCLP	0.389	J	mg/l	0.500	0.021	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Lead, TCLP	0.055	J	mg/l	0.500	0.027	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/18/19 18:40	07/19/19 11:40	EPA 7470A	1,7470A	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	07/18/19 14:02	07/18/19 21:31	EPA 3015	1,6010D	AB

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04 Date Collected: 07/16/19 09:25

Client ID: WC-2 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12600		mg/kg	9.25	2.50	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Antimony, Total	0.389	J	mg/kg	4.63	0.352	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Arsenic, Total	3.47		mg/kg	0.925	0.192	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Barium, Total	84.9		mg/kg	0.925	0.161	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Beryllium, Total	0.379	J	mg/kg	0.463	0.031	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.925	0.091	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Chromium, Total	21.5		mg/kg	0.925	0.089	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Cobalt, Total	8.80		mg/kg	1.85	0.154	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Copper, Total	18.3		mg/kg	0.925	0.239	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Iron, Total	18100		mg/kg	4.63	0.836	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Lead, Total	30.0		mg/kg	4.63	0.248	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Manganese, Total	439		mg/kg	0.925	0.147	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.075	0.049	1	07/18/19 11:00	07/19/19 11:11	EPA 7471B	1,7471B	GD
Nickel, Total	12.9		mg/kg	2.31	0.224	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Selenium, Total	0.444	J	mg/kg	1.85	0.239	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.925	0.262	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.85	0.291	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Vanadium, Total	30.8		mg/kg	0.925	0.188	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
Zinc, Total	177		mg/kg	4.63	0.271	2	07/18/19 19:17	07/19/19 12:05	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	22		mg/kg	0.96	0.96	1		07/19/19 12:05	NA	107,-	

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06 Date Collected: 07/16/19 09:45

Client ID: WC-3 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/17/19 14:50

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Barium, TCLP	0.462	J	mg/l	0.500	0.021	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/18/19 18:40	07/19/19 11:42	EPA 7470A	1,7470A	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	07/18/19 14:02	07/18/19 22:24	EPA 3015	1,6010D	AB

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06 Date Collected: 07/16/19 09:45

Client ID: WC-3 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, 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	8620		mg/kg	8.65	2.34	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Antimony, Total	1.79	J	mg/kg	4.32	0.329	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Arsenic, Total	8.05		mg/kg	0.865	0.180	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Barium, Total	131		mg/kg	0.865	0.150	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Beryllium, Total	0.268	J	mg/kg	0.432	0.029	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Cadmium, Total	1.55		mg/kg	0.865	0.085	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Chromium, Total	26.8		mg/kg	0.865	0.083	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Cobalt, Total	7.67		mg/kg	1.73	0.144	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Copper, Total	49.3		mg/kg	0.865	0.223	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Iron, Total	19800		mg/kg	4.32	0.781	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Lead, Total	182		mg/kg	4.32	0.232	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Manganese, Total	382		mg/kg	0.865	0.138	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Mercury, Total	0.452		mg/kg	0.071	0.046	1	07/18/19 11:00	07/19/19 11:13	EPA 7471B	1,7471B	GD
Nickel, Total	14.1		mg/kg	2.16	0.209	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Selenium, Total	0.830	J	mg/kg	1.73	0.223	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.865	0.245	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.73	0.272	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Vanadium, Total	25.3		mg/kg	0.865	0.176	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
Zinc, Total	800		mg/kg	4.32	0.253	2	07/18/19 19:17	07/19/19 12:10	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27		mg/kg	0.91	0.91	1		07/19/19 12:10	NA	107,-	

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08 Date Collected: 07/16/19 10:05

Client ID: WC-4 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 07/17/19 14:50

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Barium, TCLP	0.585		mg/l	0.500	0.021	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Lead, TCLP	0.037	J	mg/l	0.500	0.027	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/18/19 18:40	07/19/19 11:44	EPA 7470A	1,7470A	GD
Selenium, TCLP	ND		mg/l	0.500	0.035	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	07/18/19 14:02	07/18/19 23:17	EPA 3015	1,6010D	AB

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08 Date Collected: 07/16/19 10:05

Client ID: WC-4 COMP Date Received: 07/16/19

Sample Location: 1660 BOONE AVE., BRONX, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	9.57	2.58	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.78	0.364	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Arsenic, Total	4.15		mg/kg	0.957	0.199	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Barium, Total	95.8		mg/kg	0.957	0.166	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Beryllium, Total	0.364	J	mg/kg	0.478	0.032	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Cadmium, Total	0.115	J	mg/kg	0.957	0.094	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Chromium, Total	26.0		mg/kg	0.957	0.092	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Cobalt, Total	9.99		mg/kg	1.91	0.159	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Copper, Total	23.8		mg/kg	0.957	0.247	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Iron, Total	18800		mg/kg	4.78	0.864	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Lead, Total	35.4		mg/kg	4.78	0.256	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Manganese, Total	580		mg/kg	0.957	0.152	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Mercury, Total	0.112		mg/kg	0.079	0.052	1	07/18/19 11:00	07/19/19 11:15	EPA 7471B	1,7471B	GD
Nickel, Total	14.9		mg/kg	2.39	0.232	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Selenium, Total	0.612	J	mg/kg	1.91	0.247	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.957	0.271	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Thallium, Total	0.306	J	mg/kg	1.91	0.301	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Vanadium, Total	32.2		mg/kg	0.957	0.194	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
Zinc, Total	129		mg/kg	4.78	0.280	2	07/18/19 19:17	07/19/19 12:14	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	26		mg/kg	1.0	1.0	1		07/19/19 12:14	NA	107,-	

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,04,06,08 Batch: WG1261460-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	07/18/19 11:00	07/19/19 10:54	1,7471B	GD

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02,04,06,08 Batch: WG1261593-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Barium, TCLP	ND		mg/l	0.500	0.021	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	07/18/19 14:02	07/18/19 18:13	1,6010D	AB

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 07/15/19 16:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 02,04,06,08 Batch: WG1261715-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	07/18/19 18:40	07/19/19 11:26	1,7470A	GD

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 07/15/19 16:59

Project Name: 1660 BOONE AVE. **Lab Number:** L1931123

Project Number: 13747 **Report Date:** 07/22/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02,04,06,08 Batch: WG1261722-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Antimony, Total	0.180	J	mg/kg	2.00	0.152	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/18/19 19:17	07/19/19 11:40	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 Batch: WG1261460-2 SRM Lot Number: D105-540								
Mercury, Total	101		-		60-141	-		
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 Batch: WG1261593-2								
Arsenic, TCLP	112		-		75-125	-		20
Barium, TCLP	98		-		75-125	-		20
Cadmium, TCLP	105		-		75-125	-		20
Chromium, TCLP	102		-		75-125	-		20
Lead, TCLP	97		-		75-125	-		20
Selenium, TCLP	112		-		75-125	-		20
Silver, TCLP	103		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 Batch: WG1261715-2								
Mercury, TCLP	93		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 Batch: WG1261722-2 SRM Lot Number: D105-540					
Aluminum, Total	54	-	51-149	-	
Antimony, Total	164	-	19-249	-	
Arsenic, Total	94	-	70-130	-	
Barium, Total	84	-	75-125	-	
Beryllium, Total	98	-	75-125	-	
Cadmium, Total	106	-	75-125	-	
Chromium, Total	81	-	70-130	-	
Cobalt, Total	98	-	75-125	-	
Copper, Total	90	-	75-125	-	
Iron, Total	71	-	38-162	-	
Lead, Total	83	-	71-128	-	
Manganese, Total	86	-	76-124	-	
Nickel, Total	96	-	70-131	-	
Selenium, Total	93	-	63-137	-	
Silver, Total	85	-	69-131	-	
Thallium, Total	97	-	68-132	-	
Vanadium, Total	83	-	65-135	-	
Zinc, Total	91	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261460-3 QC Sample: L1930173-01 Client ID: MS Sample												
Mercury, Total	ND	0.145	0.252	**174**	Q	-	-		80-120	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261593-3 QC Sample: L1930114-01 Client ID: MS Sample												
Arsenic, TCLP	0.031J	1.2	1.38	115		-	-		75-125	-		20
Barium, TCLP	0.174J	20	19.9	100		-	-		75-125	-		20
Cadmium, TCLP	ND	0.51	0.539	106		-	-		75-125	-		20
Chromium, TCLP	ND	2	2.03	102		-	-		75-125	-		20
Lead, TCLP	0.275J	5.1	5.26	103		-	-		75-125	-		20
Selenium, TCLP	ND	1.2	1.36	113		-	-		75-125	-		20
Silver, TCLP	ND	0.5	0.516	103		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261715-3 QC Sample: L1930873-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0229	91		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261722-3 QC Sample: L1931123-02 Client ID: WC-1 COMP										
Aluminum, Total	11700	181	10700	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.892J	45.3	39.6	87		-	-	75-125	-	20
Arsenic, Total	8.15	10.9	17.1	82		-	-	75-125	-	20
Barium, Total	74.6	181	248	96		-	-	75-125	-	20
Beryllium, Total	0.324J	4.53	4.34	96		-	-	75-125	-	20
Cadmium, Total	ND	4.62	4.10	89		-	-	75-125	-	20
Chromium, Total	20.2	18.1	35.0	82		-	-	75-125	-	20
Cobalt, Total	8.46	45.3	45.0	81		-	-	75-125	-	20
Copper, Total	30.1	22.6	48.8	83		-	-	75-125	-	20
Iron, Total	18200	90.5	18000	**0**	Q	-	-	75-125	-	20
Lead, Total	45.8	46.2	101	120		-	-	75-125	-	20
Manganese, Total	282	45.3	310	**62**	Q	-	-	75-125	-	20
Nickel, Total	16.3	45.3	50.3	75		-	-	75-125	-	20
Selenium, Total	0.367J	10.9	10.0	92		-	-	75-125	-	20
Silver, Total	ND	27.2	26.0	96		-	-	75-125	-	20
Thallium, Total	ND	10.9	8.56	79		-	-	75-125	-	20
Vanadium, Total	28.4	45.3	68.9	89		-	-	75-125	-	20
Zinc, Total	107	45.3	222	**254**	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261460-4 QC Sample: L1930173-01 Client ID: DUP Sample						
Mercury, Total	ND	0.061J	mg/kg	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261593-4 QC Sample: L1930114-01 Client ID: DUP Sample						
Lead, TCLP	0.275J	0.285J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261715-4 QC Sample: L1930873-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261722-4 QC Sample: L1931123-02 Client ID: WC-1 COMP						
Aluminum, Total	11700	11600	mg/kg	1		20
Antimony, Total	0.892J	0.735J	mg/kg	NC		20
Arsenic, Total	8.15	7.69	mg/kg	6		20
Barium, Total	74.6	81.3	mg/kg	9		20
Beryllium, Total	0.324J	0.331J	mg/kg	NC		20
Cadmium, Total	ND	0.129J	mg/kg	NC		20
Chromium, Total	20.2	21.3	mg/kg	5		20
Cobalt, Total	8.46	8.78	mg/kg	4		20
Copper, Total	30.1	26.8	mg/kg	12		20
Iron, Total	18200	19100	mg/kg	5		20
Lead, Total	45.8	60.2	mg/kg	**27**	Q	20
Manganese, Total	282	301	mg/kg	7		20
Nickel, Total	16.3	14.9	mg/kg	9		20
Selenium, Total	0.367J	0.450J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	28.4	31.4	mg/kg	10		20
Zinc, Total	107	117	mg/kg	9		20

INORGANICS
&
MISCELLANEOUS

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-01
Client ID: WC-1 GRAB
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:00
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.7		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-02
Client ID: WC-1 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.2	0.24	1	07/17/19 12:15	07/17/19 14:31	1,9010C/9012B	LH
pH (H)	8.1		SU	-	NA	1	-	07/17/19 19:41	1,9045D	AS
Chromium, Hexavalent	ND		mg/kg	0.927	0.185	1	07/17/19 12:50	07/18/19 09:33	1,7196A	NH

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-03
Client ID: WC-2 GRAB
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:20
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.4		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-04
Client ID: WC-2 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:25
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.2		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA
Cyanide, Total	0.34	J	mg/kg	1.1	0.24	1	07/17/19 12:15	07/17/19 15:05	1,9010C/9012B	LH
pH (H)	7.6		SU	-	NA	1	-	07/17/19 19:41	1,9045D	AS
Chromium, Hexavalent	ND		mg/kg	0.962	0.192	1	07/17/19 12:50	07/18/19 09:33	1,7196A	NH

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-05
Client ID: WC-3 GRAB
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:40
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-06
Client ID: WC-3 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 09:45
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA
Cyanide, Total	0.52	J	mg/kg	1.1	0.24	1	07/17/19 12:15	07/17/19 15:10	1,9010C/9012B	LH
pH (H)	11.0		SU	-	NA	1	-	07/17/19 19:41	1,9045D	AS
Chromium, Hexavalent	ND		mg/kg	0.906	0.181	1	07/17/19 12:50	07/18/19 09:33	1,7196A	NH

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-07
Client ID: WC-4 GRAB
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:00
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

SAMPLE RESULTS

Lab ID: L1931123-08
Client ID: WC-4 COMP
Sample Location: 1660 BOONE AVE., BRONX, NY

Date Collected: 07/16/19 10:05
Date Received: 07/16/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.4		%	0.100	NA	1	-	07/17/19 03:21	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.2	0.24	1	07/17/19 12:15	07/17/19 14:38	1,9010C/9012B	LH
pH (H)	7.8		SU	-	NA	1	-	07/17/19 19:41	1,9045D	AS
Chromium, Hexavalent	ND		mg/kg	1.01	0.202	1	07/17/19 12:50	07/18/19 09:33	1,7196A	NH

Project Name: 1660 BOONE AVE.
Project Number: 13747
Lab Number: L1931123
Report Date: 07/22/19

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02,04,06,08 Batch: WG1260927-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	07/17/19 12:15	07/17/19 14:24	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02,04,06,08 Batch: WG1261032-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	07/17/19 12:50	07/18/19 09:33	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 02,04,06,08		Batch: WG1260927-2		WG1260927-3			
Cyanide, Total	**55**	Q	**41**	Q	80-120	29		35
General Chemistry - Westborough Lab	Associated sample(s): 02,04,06,08		Batch: WG1261032-2					
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab	Associated sample(s): 02,04,06,08		Batch: WG1261131-1					
pH	100		-		99-101	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

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): 02,04,06,08 QC Batch ID: WG1260927-4 WG1260927-5 QC Sample: L1931123-02 Client ID: WC-1 COMP												
Cyanide, Total	ND	11	11	99		11	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261032-4 QC Sample: L1931123-02 Client ID: WC-1 COMP												
Chromium, Hexavalent	ND	1440	1300	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 1660 BOONE AVE.

Project Number: 13747

Lab Number: L1931123

Report Date: 07/22/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1260753-1 QC Sample: L1931286-06 Client ID: DUP Sample						
Solids, Total	76.2	77.6	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261032-6 QC Sample: L1931123-02 Client ID: WC-1 COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02,04,06,08 QC Batch ID: WG1261131-2 QC Sample: L1930195-16 Client ID: DUP Sample						
pH	10.2	10.3	SU	1		5

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931123-01A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-01B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-01C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-01D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1931123-01X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-01Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)
L1931123-01Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)
L1931123-02A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),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),MN-TI(180),CD-TI(180)
L1931123-02B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HEXCR-7196(30)
L1931123-02C	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NJEPH-TPH-CAT2(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14)
L1931123-02X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1931123-02X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1931123-03A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-03B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-03C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-03D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1931123-03X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-03Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)
L1931123-03Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931123-04A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),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),MN-TI(180),CD-TI(180)
L1931123-04B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HEXCR-7196(30)
L1931123-04C	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NJEPH-TPH-CAT2(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14)
L1931123-04X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1931123-04X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1931123-05A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-05B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-05C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-05D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)
L1931123-05X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-05Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)
L1931123-05Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:54	NYTCL-8260HLW(14)
L1931123-06A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),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),MN-TI(180),CD-TI(180)
L1931123-06B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HEXCR-7196(30)
L1931123-06C	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NJEPH-TPH-CAT2(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14)
L1931123-06X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1931123-06X9	Tumble Vessel	A	NA		2.5	Y	Absent		-
L1931123-07A	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-07B	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-07C	5 gram Encore Sampler	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-07D	Plastic 2oz unpreserved for TS	A	NA		2.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: 1660 BOONE AVE.
Project Number: 13747

Lab Number: L1931123
Report Date: 07/22/19

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1931123-07X	Vial MeOH preserved split	A	NA		2.5	Y	Absent		NYTCL-8260HLW(14)
L1931123-07Y	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:55	NYTCL-8260HLW(14)
L1931123-07Z	Vial Water preserved split	A	NA		2.5	Y	Absent	17-JUL-19 01:55	NYTCL-8260HLW(14)
L1931123-08A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),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),MN-TI(180),CD-TI(180)
L1931123-08B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HEXCR-7196(30)
L1931123-08C	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NJEPH-TPH-CAT2(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(14)
L1931123-08X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1931123-08X9	Tumble Vessel	A	NA		2.5	Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name:	1660 BOONE AVE.	**Lab Number:**	L1931123
Project Number:	13747	**Report Date:**	07/22/19

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

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

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	1660 BOONE AVE.	**Lab Number:**	L1931123
Project Number:	13747	**Report Date:**	07/22/19

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

Terms

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

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

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

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

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

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

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	1660 BOONE AVE.	**Lab Number:**	L1931123
Project Number:	13747	**Report Date:**	07/22/19

REFERENCES

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

103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.

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 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

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

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L1931123

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
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ICL ☐ ISW ☐
IEC ☐ SGC ☐
IM ☐

LAB NAME: Alpha Analytical

RECEIVED DATE: 7/16/2019

Client Information

- **Company Name:** Impact Environmental
- **Address:** 170 Keyland Court
- **City:** Bohemia **State:** NY **Zip:** 11716
- **Project Contact:** Rob Dwyer
- **Phone #:** 631-269-8800 **Fax #:** 631-269-1599
- **E-mail:** rdwyer@impactenvironmental.com

Project Information

- **Project Name:** 1660 Boone Ave
- **Street:** 1660 Boone Ave
- **City:** Bronx **State:** NY **Zip:**
- **Project #:** 13747
- **Sampler's Name:** Greg Mayer, Mann Dalal
- **Sampler's Signature:** Greg Mayer

Analytical Information

Matrix Codes: L - Liquid; S - Soil; A - Air; OL - Oil; W - Wipe; PC - Paint Chips; SL - Sludge; SD - Solid; DW- Drinking Water; DISS - Dissolved

Sample Type: G=Grab; C=Composite; B=Blank

LAB SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	NONE or OTHER*	ICE	HCL	Methanol (USEPA 5035)	Sodium Bisulfate (EPA 5035)	Impact Analytical Package A*	Impact Analytical Package B**	Impact Analytical Package C***	VOC 8260 (Analyte List for NY Part 375 and NJ NRDCC)	GP82 Analysis	VOCs 8260 (CP51 Analyte List)	(LAB USE ONLY)
-01	1 WC-1 Grab		S	G	7/16/19	9:00	4									X			
-02	2 WC-1 Comp		S	C		9:05	3							X					
-03	3 WC-2 Grab		S	G		9:20	4									X			
-04	4 WC-2 Comp		S	C		9:25	3							X					
-05	5 WC-3 Grab		S	G		9:40	4									X			
-06	6 WC-3 Comp		S	C		9:45	3							X					
-07	7 WC-4 Grab		S	G		10:00	4									X			
-08	8 WC-4 Comp		S	C	↓	10:05	3							X					
	9																		
	10																		

Sample Containers — Number of Each Preserved Bottle

Turnaround Time (Business Days)

Standard Service

- ☐ Standard - 5 day
- ☐ Standard - 4 day
- ☒ Standard - 3 day

Rush Service

- ☐ 48 Hour *RUSH*
- ☐ 24 Hour *RUSH*

(LAB USE ONLY)

TAT Approved By / Date:

Data Deliverable Information

- ☐ Results Only (Level-1)
- ☐ Results plus Misc. QC (Level-2)
- ☐ Results plus ALL QC (Level-3)
- ☐ PA QC Package
- ☐ NJ QC Package (Level3NJ)
- ☐ CLP Category A (Level-2)
- ☐ CLP Category B (Level-4)
- ☐ ASP QC Package (Level-4)
- ☐ Other _____
- ☐ EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and dectection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & Category II EPH. ***Package C (proprietary)- Same as Package B plus RCRA characteristics and Full TCLP

NOTES/COMMENTS:

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

	Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	Greg Mayer	7/16/19 13:05	AAL			
2					7/16/19 1500	
3			7/16/19 1307			
4					7/16 1945	
5			7/16			

COOLER INFORMATION

Cooler Temp:_____ pH:_____ ☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

2335 7/16/19 23:35

Form SS-2/Nov. 2013