VIA ELECTRONIC MAIL

January 14, 2019

Mordechai Hirsch
160 Heyward Street
Brooklyn, NY 11206

Re: Limited Phase II Investigation
188 East 135th Street, Bronx - Tax Map No. 2-2323-13

Dear Mr. Hirsch:

Environmental Business Consultants (EBC) is pleased to provide this letter report documenting the results of the Limited Phase II Environmental Site Assessment (ESA) performed at the above-referenced property on December 12, 2018, in accordance with EBC's proposal, dated December 5, 2018.

Background

The Site consists of a single, irregular-shaped 0.57-acre parcel located on the northwestern corner of intersection between East 135th Street, which runs north to south along the eastern site perimeter, and Park Avenue, in the Mott Haven section of the Borough of the Bronx, New York City, Bronx County, New York (Figure 1). The property is currently developed with 1-story commercial building. The building occupies the east-central portion of the parcel, fronts to the north, and has a reported area of 6,500 SF. Asphalt-paved parking lots and unpaved yard areas comprise the remainder of the site. Sidewalks are located to the south and east, along Park Avenue and East 135th Street, respectively. The building is currently vacant, but was formerly occupied by the Padded Wagon (a moving company) and several other commercial tenants.

A prior Phase I Screening Report, prepared by EBC, dated in January 2018, identified several recognized environmental conditions (RECs) and other environmental concerns related to the historic use of the property, including a railroad yard, a coal yard, a contractor's storage/supply yard, its potential use as a dry cleaner, and the historic industrial use of the surrounding properties.

In addition, the property was assigned an E-designation (E-227) for Hazmat and Noise during the Lower Concourse Rezoning and Related Actions completed by the City in June 2009 (CEQR 08DCP071X). The E-designations will have to be addressed before the property can be redeveloped. The scope of this Limited Phase II Investigation represents a preliminary assessment of the property to evaluate subsurface conditions and determine if the site is eligible for inclusion in the New York State Brownfields Program, and does not fully satisfy the requirements of the E-Designation Program.

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

Soil Boring Investigation

To evaluate potential impacts related to the historic use of the site, EBC conducted a soil boring investigation consisting of five soil borings (SB1 through SB5) at representative locations across the site to determine if additional investigation and/or remediation is warranted. Soil boring locations are shown on Figure 2.

At each boring location soil samples were collected continuously from grade to the water table (approximately 10 to 12 feet) using a Geoprobe™. The Geoprobe™ uses direct push technology to drive core samplers to the desired depth for soil sample collection. This method can be performed quickly, so if refusal occurs, a new location can be accessed with minimal effort. Soil samples were characterized by an EBC environmental scientist and inspected for visual and olfactory evidence of contamination (i.e. staining and/or odors). Non-disposable sampling equipment was cleaned using a potable water and Alconox detergent wash followed by a potable water rinse prior to the collection of each sample. Upon collection, the samples were placed in pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to the laboratory.

Soils at the site consisted generally of brown to black silty sand, with fill material (concrete, brick and asphalt) extending to a depth of 10 feet below grade. At borings SB3 and SB5, some clay and silty clay were present at depths below 8 to 10 feet. Additionally, the fill materials were very loose in some areas and sample recovery was poor. No evidence of petroleum impacts (i.e., staining or odors) was observed and no elevated PID readings were noted. Soil boring logs are included as Attachment A.

As part of the field activities, five soil samples (one per boring), either the sample exhibiting the highest degree if impact (visual or olfactory indicators) or the deepest interval above the water table, were submitted to Phoenix Environmental Laboratories, Inc., of Manchester, CT, a New York State-certified laboratory (No. 11301) for analysis. The samples submitted were from the following depths SB1 (10-12'), SB2 and SB3 (7-9') and SB4 and SB5 (8-10'). Soil samples were analyzed volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260. Semi-volatile organic compounds (SVOCs) using USEPA Method 8270, and Target Analyte List (TAL) metals using USEPA Methods 6010 and 7471. These methods are specified by the New York State Department of Environmental Conservation (NYSDEC) in the evaluation of petroleum (gasoline, diesel and heating oil) spill, typical industrial solvents, and also consistent with NYCOER's E-Designation requirements.

Soil Analytical Results

Soil analytical results were compared to the NYSDEC's Division of Environmental Remediation 6 NYCRR Part 375 Soil Cleanup Objective tables (Table 375-6.8[a]: Unrestricted Use Soil Cleanup Objectives [UUSCOs]), CP-51 Soil Cleanup Guidance (Tables 2 and 3), and the Restricted Residential Use Soil Cleanup Objectives (RRUSCOs) (Part 375 Table 375-6.8[b]) to determine if additional investigation and/or remediation is warranted.

The analytical results revealed that the VOC acetone was detected in each of the five samples, at concentrations between 9.8 and 36 micrograms per kilogram (ug/kg), which are below its UUSCO of 50 ug/kg. It should be noted that acetone is a common laboratory contaminant, and its presence in these samples may be attributable to laboratory cross-contamination. Naphthalene was also detected in sample SB3, at a concentration of 71 ug/kg. There is no UUSCO for this compound. No other VOCs were detected in any of the samples at concentrations exceeding their respective laboratory method detection limits (MDLs).

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The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoroanthene, benzo(k)fluoroanthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene, were detected in soil sample SB1 (10-12') at concentrations exceeding their respective UUSCOs. In addition, the concentrations of these compounds, except for benzo(k)fluoroanthene and chrysene, also exceeded their respective RRUSCOs. Twelve additional SVOCs were also detected in sample SB1 (10-12'), but at concentrations below their UUSCOs. One or more SVOCs were also detected in the samples from borings SB2, SB3 and SB4, but at concentrations below their UUSCOs. No SVOCs were detected in the soil sample from boring SB5 at concentrations above their respective laboratory MDLs.

The metals arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc, were detected in one of more of the samples SB1 through SB4 at concentrations exceeding their respective UUSCOs. The concentration of cadmium (SB1 and SB2), copper (SB1), lead (SB1, SB2, and SB3), and mercury (SB1 through SB4) also exceeded their respective RRUSCOs. Several additional metals were also detected in samples SB1 through SB4 and in sample SB5, but at concentrations below their respective UUSCOs.

Laboratory analytical results for the soil samples are summarized on Tables 1 through 3, and the laboratory reports are provided as Attachment B.

Groundwater Sampling

As groundwater was encountered at approximately 10 to 12 feet below grade, three of the five borings (SB1, SB3 and SB4) were extended to a depth three feet below the water table to facilitate the collection of groundwater samples (GW1 through GW3). Groundwater samples were collected using the Geoprobe™ equipped with a four-foot long mill slot sampler or equivalent. The sampler was first be driven to the desired depth (approximately three feet below the water table). This allows the sampler screen to intersect the water table and allow floating product or petroleum sheens (if present) to be documented. A piece of disposable polyethylene tubing with a stainless steel check valve was then inserted through the probe rods into the water bearing zone and the tubing hand oscillated to obtain the sample. The groundwater samples were collected directly from the tubing into pre-cleaned laboratory supplied glassware and stored in a cooler packed with ice for transport to the laboratory. Non-disposable sampling equipment was cleaned using a distilled water and Alconox detergent wash followed by a potable water rinse prior to the collection of each sample. The groundwater samples were analyzed for VOCs by EPA Method 8260. Groundwater sample locations are shown on Figure 2.

Groundwater Analytical Results

Groundwater analytical results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS).

The analytical results revealed that 10 VOCs, primarily petroleum-related compounds detected in sample GW1, which was collected from boring SB1, but at concentrations below their respective groundwater standards. Two VOCs were also detected in sample GW3, collected from boring SB4, but at concentrations below their respective groundwater standards. No VOCs were detected in sample GW2 at concentrations exceeding their respective laboratory method detection limits (MDLs).

Laboratory analytical results for the groundwater samples are summarized on Table 4, and the laboratory reports are provided as Attachment B.

Soil Vapor Sampling

To evaluate potential migration of VOCs associated with historic industrial use of the site and their potential impact to soil vapor beneath the building at the site. EBC conducted a soil vapor survey, which consisted of the collection and analysis of two sub-surface soil vapor samples (SV1 and SV2) at

representative locations and one sub-slab soil vapor sample (SS1) from beneath the central portion of the site building. At both of the subsurface soil vapor sample locations, temporary vapor points consisting of six-inch long stainless steel screen point samplers and polyethylene tubing, were installed to a depth of approximately 6 feet below grade (midpoint between the ground surface and the water table) using Geoprobe™ equipment. The sub-slab vapor point also consisted of a six-inch long stainless steel screen point sampler and polyethylene tubing, installed to a depth of approximately one foot below the floor slab using a Bosch rotary hammer drill to penetrate the floor and drill to the desired depth.

At each location, the annular space between the polyethylene tubing and the boreholes was then backfilled to grade with sand, with a bentonite clay seal emplaced above the sand at the ground surface to prevent ambient air from being drawn into the borehole and mixing with the soil vapor to be sampled. The above-grade end of the tubing was then attached to a hand pump and ambient air within the tubing was purged to ensure the collection of a representative sample. The tubing was then attached directly to a 6-liter laboratory-supplied SUMMA vacuum canister, equipped with laboratory calibrated flow controllers. The air (soil vapor) samples were collected for a period of approximately two hours at a rate of 0.05 liter per minute to obtain the required sample volume. After collection, the canisters were properly labeled and shipped under chain-of-custody to Phoenix Environmental Laboratories for analysis of VOCs using USEPA Method TO-15.

Soil Vapor Analytical Results

Soil vapor analytical results were compared to the compounds listed in Table 3.1 of the Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006.

Each of the three soil vapor/sub-slab samples contained tetrachloroethene (PCE) at concentrations (0.62 µg/m3 to 5.73 µg/m3), within the mitigation range established within the State DOH soil vapor guidance matrix. The chlorinated VOCs trichloroethene (max. 0.35 ug/m^3), vinyl chloride (max. 0.49 ug/m3) and carbon tetrachloride (max. 0.33 ug/m^3) were also detected in one or more of the three soil vapor samples, but at concentrations below applicable criteria. The chlorinated VOCs 1,1-dichloroethene and cis-1,2-dichloroethene were not detected in the soil vapor/sub-slab samples. Low levels of petroleum-related VOCs were also present in each of the samples. The total concentration of petroleum-related VOCs (Total BTEX) ranged from 29.45 µg/m^3 in SV2 to 57.71 µg/m^3 in SS1. Individual BTEX compounds included benzene (5.87 ug/$m^{3)}$, ethylbenzene (5.47 ug/m3), toluene (max. 21.6 ug/m^3), m&p xylenes (max. 18.3 ug/m^3) and o-xylene (max. 6.47 ug/m^3). Soil vapor/sub-slab sample locations are shown on Figure 3.

Laboratory analytical results for the soil vapor samples are summarized on Table 5, and the laboratory reports are provided as Attachment B.

Conclusions and Recommendations

Soil samples were collected from five representative soil borings drilled across the site and analyzed for the presence of VOCs, SVOCs and metals. Analytical results indicate the presence of several SVOCs at concentrations exceeding applicable regulatory criteria in one sample (SB1 10-12') at the northeastern portion of the site. No evidence of petroleum staining or odors was observed in this boring. One or more heavy metals were detected in four of the five soil samples at concentrations exceed either their UUSCO and/or RRUSCO. The presence of these compounds (SVOCs and metals) is consistent with typical urban fill materials and not indicative of a petroleum release.

Several VOCs were detected in two of the three groundwater samples, but at concentrations below applicable regulatory criteria.

Soil vapor and sub-slab soil vapor samples contained low concentrations of chlorinated and petroleum-related compounds, none of which exceeded applicable regulatory criteria. As such, there is no evidence of a soil vapor intrusion condition at the site.

In general, the findings of the Phase II investigation are consistent with the presumed conditions outlined in our November 20, 2018 environmental review letter, which stated that the site was likely underlain by typical urban fill materials impacted by metals and other contaminants. In this case SVOCs in the northeastern portions. Because the property has been assigned an E-designation for hazardous materials by New York City, a more through subsurface will be required prior to any redevelopment of the site, and any soils removed for construction will have to be properly disposed of. In addition, to the soil/fill material disposal, NYCOER will likely require that any new building be constructed with a sub-slab vapor barrier, although, based upon the soil vapor sample results and the absence of VOCs in site soils and groundwater the installation of a sub-slab depressurization system is unlikely to be warranted.

Finally, as noted in our prior environmental review letter, the property is located within an Enzone, as well as designated Brownfield Opportunity Area. Based upon the levels of SVOCs and metals detected in onsite fill materials, you could opt into the State Brownfield program, which would provide tax credits for the clean-up and the new building.

We appreciate the opportunity to assist you with this project. Should you have any questions or comments, please do not hesitate to contact me.

Very truly yours,

Environmental Business Consultants

Keith W. Butler
Senior Project Manager

1808 Middle Country Road
Ridge, NY 11961
Phone 631.504.6000
Fax 631.924.2870

TABLES

TABLE 1
188 East 135th Street
Bronx, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1 (10-12') 12/12/2018 µg/Kg		SB2 (7-9') 12/12/2018 µg/Kg		SB3 (7-9') 12/12/2018 µg/Kg		SB4 (8-10') 12/12/2018 µg/Kg		SB5 (8-10') 12/12/2018 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,1,1-Trichloroethane	680	100,000	< 19	19	< 4.8	4.8	< 25	25	< 5.7	5.7	< 5.0	5.0
1,1,2,2-Tetrachloroethane			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,1,2-Trichloroethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,1-Dichloroethane	270	26,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,1-Dichloroethene	330	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,1-Dichloropropene			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,2,3-Trichlorobenzene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2,3-Trichloropropane			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2,4-Trichlorobenzene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2,4-Trimethylbenzene	3,600	52,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2-Dibromo-3-chloropropane			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2-Dibromomethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,2-Dichlorobenzene	1,100	100,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,2-Dichloroethane	20	3,100	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,2-Dichloropropane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,3,5-Trimethylbenzene	8,400	52,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,3-Dichlorobenzene	2,400	4,900	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,3-Dichloropropane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
1,4-Dichlorobenzene	1,800	13,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
1,4-dioxane	100	13,000	< 72	72	< 72	72	< 94	94	< 85	85	< 75	75
2,2-Dichloropropane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
2-Chlorotoluene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
2-Hexanone (Methyl Butyl Ketone)			< 24	24	< 24	24	< 31	31	< 28	28	< 25	25
2-Isopropyltoluene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
4-Chlorotoluene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
4-Methyl-2-Pentanone			< 24	24	< 24	24	< 31	31	< 28	28	< 25	25
Acetone	50	100,000	**9.8**	24	**23**	24	**23**	31	**10**	28	**36**	25
Acrolein			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Acrylonitrile			< 19	19	< 9.6	9.6	< 13	13	< 11	11	< 20	20
Benzene	60	4,800	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Bromobenzene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
Bromochloromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Bromodichloromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Bromoform			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Bromomethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Carbon Disulfide			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Carbon tetrachloride	760	2,400	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Chlorobenzene	1,100	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Chloroethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Chloroform	370	49,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Chloromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
cis-1,2-Dichloroethene	250	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
cis-1,3-Dichloropropene			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Dibromochloromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Dibromomethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Dichlorodifluoromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Ethylbenzene	1,000	41,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Hexachlorobutadiene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
Isopropylbenzene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
m&p-Xylenes	260	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 29	29	< 29	29	< 38	38	< 34	34	< 30	30
Methyl t-butyl ether (MTBE)	930	100,000	< 9.7	9.7	< 9.6	9.6	< 13	13	< 11	11	< 10	10
Methylene chloride	50	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Naphthalene			< 320	320	< 4.8	4.8	**71**	320	< 5.7	5.7	< 5.0	5.0
n-Butylbenzene	12,000	100,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
n-Propylbenzene	3,900	100,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
o-Xylene	260	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
p-Isopropyltoluene			< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
sec-Butylbenzene	11,000	100,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
Styrene			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
tert-butyl alcohol			< 97	97	< 96	96	< 130	130	< 110	110	< 100	100
tert-Butylbenzene	5,900	100,000	< 320	320	< 4.8	4.8	< 320	320	< 5.7	5.7	< 5.0	5.0
Tetrachloroethene	1,300	19,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Tetrahydrofuran (THF)			< 9.7	9.7	< 9.6	9.6	< 13	13	< 11	11	< 10	10
Toluene	700	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
trans-1,2-Dichloroethene	190	100,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
trans-1,3-Dichloropropene			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
trans-1,4-dichloro-2-butene			< 640	640	< 9.6	9.6	< 640	640	< 11	11	< 10	10
Trichloroethene	470	21,000	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Trichlorofluoromethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Trichlorotrifluoroethane			< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Vinyl Chloride	20	900	< 4.8	4.8	< 4.8	4.8	< 6.3	6.3	< 5.7	5.7	< 5.0	5.0
Total BTEX Concentration			**0**		**0**		**0**		**0**		**0**	
Total VOCs Concentration			**9.8**		**23**		**94**		**10**		**36**	

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BCG - Below Cellar Grade

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 2
188 East 135th Street
Bronx, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1 (10-12') 12/12/2018 µg/Kg		SB2 (7-9') 12/12/2018 µg/Kg		SB3 (7-9') 12/12/2018 µg/Kg		SB4 (8-10') 12/12/2018 µg/Kg		SB5 (8-10') 12/12/2018 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
1,2,4-Trichlorobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
1,2-Dichlorobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
1,2-Diphenylhydrazine			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
1,3-Dichlorobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
1,4-Dichlorobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2,4,5-Trichlorophenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2,4,6-Trichlorophenol			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
2,4-Dichlorophenol			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
2,4-Dimethylphenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2,4-Dinitrophenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2,4-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
2,6-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
2-Chloronaphthalene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2-Chlorophenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2-Methylnaphthalene			**250**	260	< 270	270	< 260	260	< 250	250	< 270	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2-Nitroaniline			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
2-Nitrophenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
3,3'-Dichlorobenzidine			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
3-Nitroaniline			< 380	380	< 390	390	< 380	380	< 360	360	< 390	390
4,6-Dinitro-2-methylphenol			< 230	230	< 230	230	< 230	230	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
4-Chloro-3-methylphenol			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
4-Chloroaniline			< 300	300	< 310	310	< 300	300	< 290	290	< 310	310
4-Chlorophenyl phenyl ether			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
4-Nitroaniline			< 380	380	< 390	390	< 380	380	< 360	360	< 390	390
4-Nitrophenol			< 380	380	< 390	390	< 380	380	< 360	360	< 390	390
Acenaphthene	20,000	100,000	**490**	260	< 270	270	< 260	260	< 250	250	< 270	270
Acenaphthylene	100,000	100,000	**550**	260	< 270	270	< 260	260	< 250	250	< 270	270
Acetophenone			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Aniline			< 300	300	< 310	310	< 300	300	< 290	290	< 310	310
Anthracene	100,000	100,000	**1,500**	260	< 270	270	**140**	260	**380**	250	< 270	270
Benz(a)anthracene	1,000	1,000	**3,400**	260	< 270	270	**430**	260	**700**	250	< 270	270
Benzidine			< 380	380	< 390	390	< 380	380	< 360	360	< 390	390
Benzo(a)pyrene	1,000	1,000	**3,200**	190	< 190	190	**470**	190	**640**	180	< 200	200
Benzo(b)fluoranthene	1,000	1,000	**3,000**	260	< 270	270	**400**	260	**530**	250	< 270	270
Benzo(ghi)perylene	100,000	100,000	**1,800**	260	< 270	270	**330**	260	**330**	250	< 270	270
Benzo(k)fluoranthene	800	3,900	**2,700**	260	< 270	270	**380**	260	**500**	250	< 270	270
Benzoic acid			< 1900	1,900	< 1900	1,900	< 1900	1,900	< 1800	1,800	< 2000	2,000
Benzyl butyl phthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Bis(2-chloroethoxy)methane			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Bis(2-chloroethyl)ether			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
Bis(2-chloroisopropyl)ether			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Carbazole			**360**	190	< 190	190	< 190	190	< 180	180	< 200	200
Chrysene	1,000	3,900	**3,400**	260	< 270	270	**450**	260	**680**	250	< 270	270
Dibenz(a,h)anthracene	330	330	**720**	190	< 190	190	< 190	190	< 180	180	< 200	200
Dibenzofuran	7,000	59,000	**320**	260	< 270	270	< 260	260	< 250	250	< 270	270
Diethyl phthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Dimethylphthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Di-n-butylphthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Di-n-octylphthalate			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Fluoranthene	100,000	100,000	**7,000**	260	**320**	270	**780**	260	**1,700**	250	< 270	270
Fluorene	30,000	100,000	**470**	260	< 270	270	< 260	260	< 250	250	< 270	270
Hexachlorobenzene			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
Hexachlorobutadiene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Hexachlorocyclopentadiene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Hexachloroethane			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
Indeno(1,2,3-cd)pyrene	500	500	**2,100**	260	< 270	270	**330**	260	**360**	250	< 270	270
Isophorone			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
Naphthalene	12,000	100,000	**210**	260	< 270	270	< 260	260	< 250	250	< 270	270
Nitrobenzene			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
N-Nitrosodimethylamine			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
N-Nitrosodi-n-propylamine			< 190	190	< 190	190	< 190	190	< 180	180	< 200	200
N-Nitrosodiphenylamine			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Pentachloronitrobenzene			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Pentachlorophenol	800	6,700	< 230	230	< 230	230	< 230	230	< 220	220	< 230	230
Phenanthrene	100,000	100,000	**5,000**	260	**300**	270	**520**	260	**1,300**	250	< 270	270
Phenol	330	100,000	< 260	260	< 270	270	< 260	260	< 250	250	< 270	270
Pyrene	100,000	100,000	**6,500**	260	< 270	270	**740**	260	**1,500**	250	< 270	270
Pyridine			< 260	260	< 270	270	< 260	260	< 250	250	< 270	270

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
BCG - Below Cellar Grade
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
188 East 135th Street
Bronx, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1 (10-12') 12/12/2018 µg/Kg		SB2 (7-9') 12/12/2018 µg/Kg		SB3 (7-9') 12/12/2018 µg/Kg		SB4 (8-10') 12/12/2018 µg/Kg		SB5 (8-10') 12/12/2018 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			5,850	37	9,320	40	9,190	37	9,910	38	12,400	37
Antimony			15.1	3.7	< 4.0	4.0	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7
Arsenic	13	16	15.8	0.75	8.39	0.80	8.23	0.74	5.21	0.76	2.64	0.74
Barium	350	350	168	0.7	285	0.8	203	0.7	71.1	0.8	27.3	0.7
Beryllium	7.2	14	0.44	0.30	0.52	0.32	0.56	0.29	0.49	0.30	0.53	0.29
Cadmium	2.5	2.5	3.44	0.37	2.61	0.40	0.9	0.37	0.43	0.38	< 0.37	0.37
Calcium			48,200	37	44,500	40	6,280	3.7	1,540	3.8	7,670	3.7
Chromium	30	180	46.3	0.37	23.2	0.40	34.8	0.37	17.4	0.38	17.9	0.37
Cobalt			10.3	0.37	9.08	0.40	8.51	0.37	10.7	0.38	6.1	0.37
Copper	50	270	308	7.5	159	0.8	63.9	0.7	26.8	0.8	25.3	0.7
Iron			59,600	37	39,300	40	25,000	37	20,000	38	14,700	37
Lead	63	400	662	7.5	959	8.0	382	7.4	62.6	0.8	11.7	0.7
Magnesium			14,000	37	4,420	4.0	3,000	3.7	2,980	3.8	6,300	37
Manganese	1,600	2,000	597	3.7	398	4.0	228	3.7	293	3.8	110	0.37
Mercury	0.18	0.81	1.29	0.15	13	1.4	0.53	0.14	0.24	0.13	0.03	0.03
Nickel	30	140	38.3	0.37	18.5	0.40	43.2	0.37	16.3	0.38	14.4	0.37
Potassium			1,120	7	1,840	8	1,310	7	2,030	8	1,470	7
Selenium	3.9	36	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5
Silver	2	36	< 0.37	0.37	< 0.40	0.40	< 0.37	0.37	< 0.38	0.38	< 0.37	0.37
Sodium			494	7	396	8	375	7	125	8	289	7
Thallium			< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5
Vanadium			56.3	0.37	25.3	0.40	23.5	0.37	26.3	0.38	22.5	0.37
Zinc	109	2,200	720	7.5	877	8.0	195	7.4	85.6	0.8	64.4	0.7

Notes:

* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BCG - Below Cellar Grade

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
188 East 135th Street
Bronx, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	GW1 12/12/2018		GW2 12/12/2018		GW3 12/12/2018	
	µg/L	µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	**1.8**	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane	0.0006	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2-Isopropyltoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-pentanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone	50	**3.9**	5.0	< 5.0	5.0	**3.7**	5.0
Acrolein	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide		**0.4**	1.0	< 1.0	1.0	**0.39**	1.0
Carbon tetrachloride	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane	50	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	**0.32**	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylene		**1.2**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl ethyl ketone	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	**1.6**	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	**0.6**	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	**1.5**	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**1.3**	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl chloride	2	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0

Notes:
RL- Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 5
188 East 135th Street
Bronx, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value ($\mu g/m^3$) [a]	NYSDOH Soil Outdoor Background Levels ($\mu g/m^3$) [b]	SV1 12/12/2018 ($\mu g/m3$)		SV2 12/12/2018 ($\mu g/m3$)		SS1 12/12/2018 ($\mu g/m3$)	
			Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,1-Trichloroethane	100	<2.0 - 2.8	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2,2-Tetrachloroethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1,2-Trichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,1-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20
1,2,4-Trichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2,4-Trimethylbenzene		<1.0	**2.9**	1.00	**2.52**	1.00	**4.81**	1.00
1,2-Dibromoethane		<1.5	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloroethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichloropropane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,2-Dichlorotetrafluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,3,5-Trimethylbenzene		<1.0	**1.41**	1.00	< 1.00	1.00	**1.72**	1.00
1,3-Butadiene		NA	< 1.00	1.00	**8.89**	1.00	< 1.00	1.00
1,3-Dichlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,4-Dichlorobenzene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
1,4-Dioxane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
2-Hexanone			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Ethyltoluene		NA	**4.31**	1.00	**3.75**	1.00	**6.14**	1.00
4-Isopropyltoluene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
4-Methyl-2-pentanone			< 1.00	1.00	**2.28**	1.00	**1.44**	1.00
Acetone		NA	**287**	5.01	**247**	5.01	**148**	5.01
Acrylonitrile			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Benzene		<1.6 - 4.7	**5.33**	1.00	**2.77**	1.00	**5.87**	1.00
Benzyl Chloride		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromodichloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromoform		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Bromomethane		<1.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Carbon Disulfide		NA	**14.7**	1.00	**5.13**	1.00	**3.64**	1.00
Carbon Tetrachloride	5	<3.1	< 0.20	0.20	< 0.20	0.20	**0.33**	0.20
Chlorobenzene		<2.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroethane		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloroform		<2.4	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Chloromethane		<1.0 - 1.4	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
cis-1,2-Dichloroethene		<1.0	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20
cis-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Cyclohexane		NA	**8.57**	1.00	**10.1**	1.00	**1.07**	1.00
Dibromochloromethane		<5.0	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Dichlorodifluromethane		NA	**1.46**	1.00	**1.69**	1.00	**1.5**	1.00
Ethanol			**27.5**	1.00	**42**	1.00	**19.8**	1.00
Ethyl Acetate		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Ethylbenzene		<4.3	**4.02**	1.00	**2.5**	1.00	**5.47**	1.00
Heptane		NA	**41.8**	1.00	**3.83**	1.00	**3.26**	1.00
Hexachlorobutadiene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Hexane		<1.5	**77.5**	1.00	**5.74**	1.00	**1.32**	1.00
Isopropylalcohol		NA	< 1.00	1.00	**1.74**	1.00	**2.87**	1.00
Isopropylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Xylene (m&p)		<4.3	**15.1**	1.00	**10.3**	1.00	**18.3**	1.00
Methyl Ethyl Ketone			**22**	1.00	**11.5**	1.00	**12.5**	1.00
MTBE		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Methylene Chloride		<3.4	**64.9**	3.00	**12.2**	3.00	< 3.00	3.00
n-Butylbenzene			< 1.00	1.00	< 1.00	1.00	**1.22**	1.00
Xylene (o)		<4.3	**5.34**	1.00	**3.38**	1.00	**6.47**	1.00
Propylene		NA	< 1.00	1.00	**168**	5.01	**2.79**	1.00
sec-Butylbenzene			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Styrene		<1.0	**1.53**	1.00	**1.19**	1.00	**2.88**	1.00
Tetrachloroethene	30		**3.75**	0.25	**0.62**	0.25	**5.73**	0.25
Tetrahydrofuran		NA	< 1.00	1.00	**7.93**	1.00	< 1.00	1.00
Toluene		1.0 - 6.1	**17.5**	1.00	**10.5**	1.00	**21.6**	1.00
trans-1,2-Dichloroethene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
trans-1,3-Dichloropropene		NA	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Trichloroethene	2	<1.7	< 0.20	0.20	< 0.20	0.20	**0.35**	0.20
Trichlorofluoromethane		NA	< 1.00	1.00	< 1.00	1.00	**1.85**	1.00
Trichlorotrifluoroethane			< 1.00	1.00	< 1.00	1.00	< 1.00	1.00
Vinyl Chloride		<1.0	< 0.20	0.20	**0.49**	0.20	< 0.20	0.20
BTEX			**47.29**		**29.45**		**57.71**	
CVOCs			**3.75**		**1.11**		**6.41**	
Total VOCs			**606.62**		**566.05**		**280.93**	

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)

FIGURES

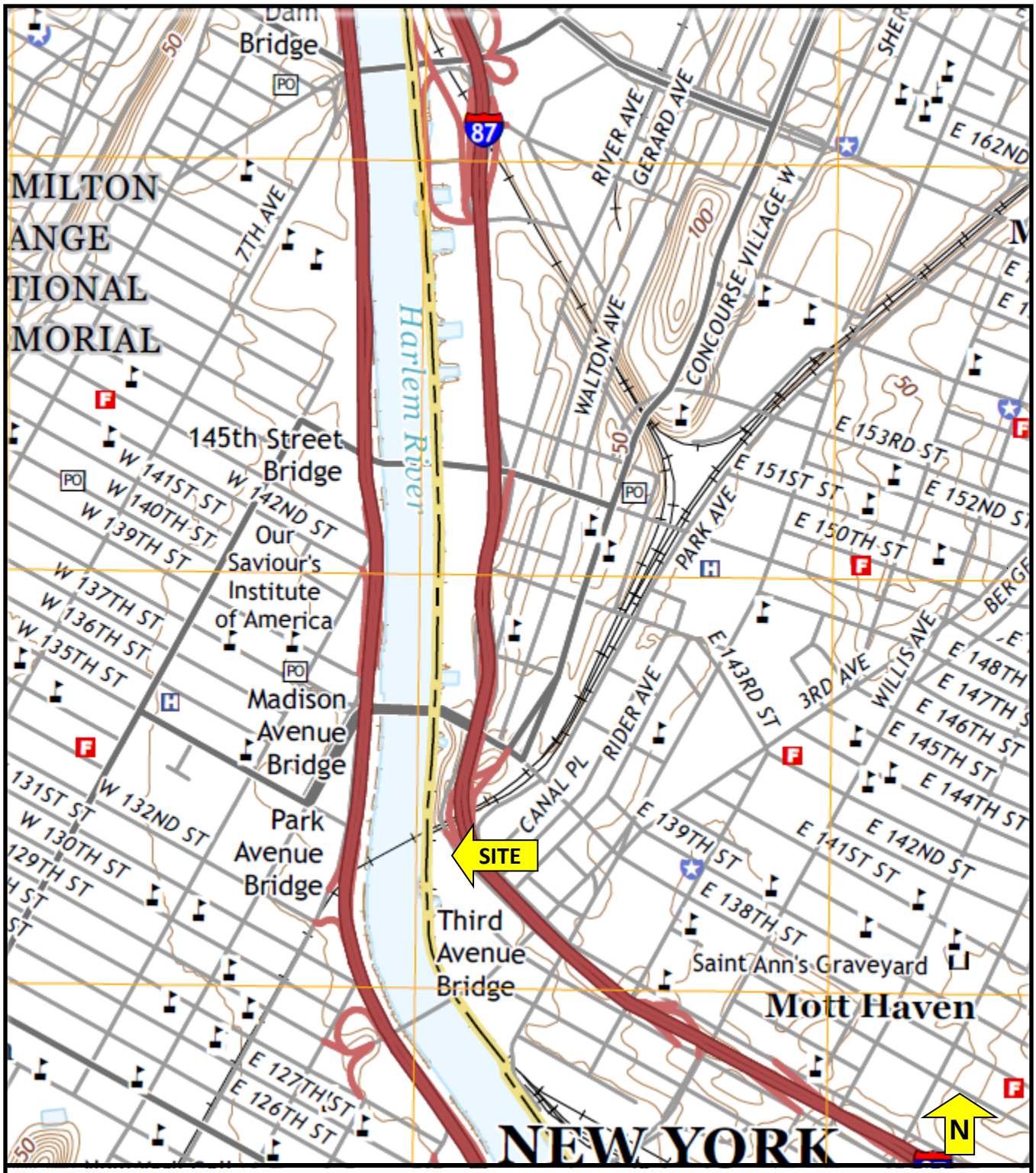


FIGURE 1 – SITE LOCATION MAP

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631.924.2870

SITE NAME: Commercial Property
STREET ADDRESS: 188 East 135th Street
MUNICIPALITY, STATE, ZIP: Bronx, NY10451

Source: USGS

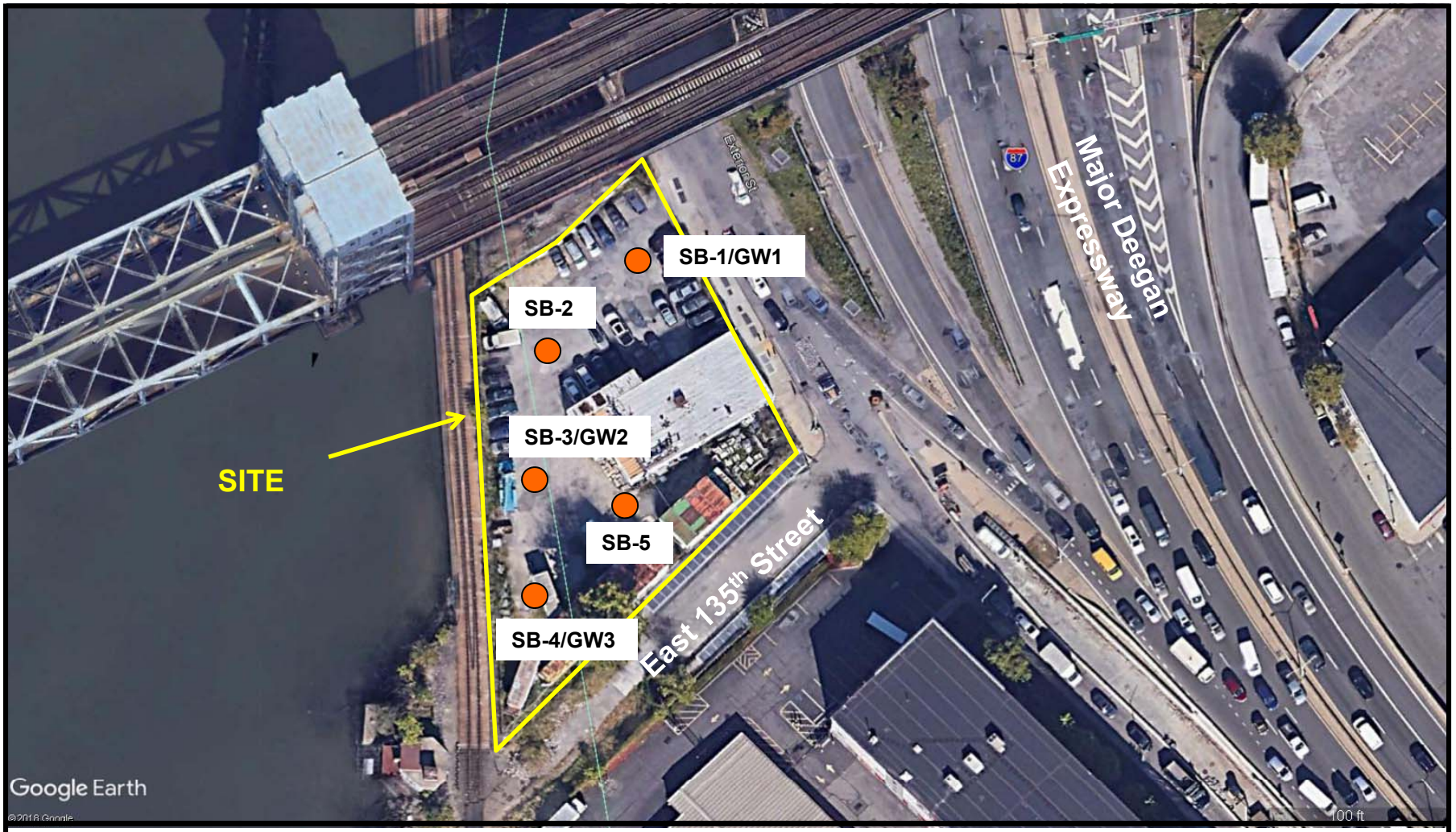


FIGURE 2 - SOIL BORING AND GROUNDWATER SAMPLE LOCATION MAP

N

SITE NAME: Commercial Property
STREET ADDRESS: 188 East 135th Street
MUNICIPALITY, STATE, ZIP: Bronx, NY 10036

Source: Google Earth – June 2011

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631.924.2870

SOIL VAPOR AND SUB-SLAB SOIL VAPOR SAMPLE LOCATION MAP

N

SITE NAME: Commercial Property
STREET ADDRESS: 188 East 135th Street
MUNICIPALITY, STATE, ZIP: Bronx, NY 10036

Source: Google Earth – June 2011

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631.924.2870

ATTACHMENT A

SOIL BORING LOGS

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB1 Boring Log

Location: 38' from Northern property line and 27' from Eastern property line.			Depth to Water	Site Elevation Datum
Site Name: 118 East 135th street	Address: 188 East 135th Street, Bronx, NY 10451		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C Squared	Method: Geoprobe		11-12ft bgs	Well Specifications
Date Started: 12/12/2018	Date Completed: 12/12/2018			None
Completion Depth: 15 feet	Geologist David Rukki			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	SAMPLES Blow per 6 in.	SAMPLES PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	3		0.0	0-3" - (FILL) Crushed concrete
	to 10	12		0.0	0-4" - (FILL) Brick and stone 4-12" - (FILL) Black-brown, silty sand with asphalt and red brick. Dry. No odor.
	to 15	7		0.0	0-7" - Dark black silty sand with some organics. Wet. No odor. **Retained soil sample SB1(10-12)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB2 Boring Log

Location: 40' from Northern property line and 16' from Western property line.			Depth to Water	Site Elevation Datum
Site Name: 118 East 135th street	Address: 188 East 135th Street, Bronx, NY 10451		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C Squared	Method: Geoprobe		11-12ft bgs	Well Specifications
Date Started: 12/12/2018	Date Completed: 12/12/2018			No Well
Completion Depth: 10 feet	Geologist David Rukki			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	27		0.0	0-6" - (FILL) light-brown silty sand with asphalt and minor red brick. Dry. No odor. 6-24" - black and dark brown siltly sand with shade orange. Dry. No odor 24-27" - crushed stone
	to 10	10		0.0	0-5" - (FILL) Black-brown silty sand couse grains. Dry. No odor. 5-10" - light brown wet silty sand. No odors. **Retained soil sample SB2(7-9)*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB3 Boring Log

Location: 95' from Northern property line and 13' from Western property line.		Depth to Water	Site Elevation Datum
Site Name: 118 East 135th street	Address: 188 East 135th Street, Bronx, NY 10451	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C Squared	Method: Geoprobe	11-12ft bgs	Well Specifications
Date Started: 12/12/2018	Date Completed: 12/12/2018		No Well
Completion Depth: 15 feet	Geologist David Rukki		

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	35		0.0	0-6" - light brown/gray silty sand with some fill 6-13" - dark brown siltly sand. Damp. No odor 13-24" Interbedded crushed stone and silty sand 24-35" light brown/black silty sand with some brick. Dry. No odors.
	to 10	8		0.0	0-8" - Black-brown silty sand. Very damp. No odor. **Retained soil sample SB3(7-9)*
	to 15	17		0.0	0-17" - Gray clay and some layers of silty sand.No odors.

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB4 Boring Log

Location: 22' from Western property line and 37' from Southern property line.		Depth to Water	Site Elevation Datum
Site Name: 118 East 135th street	Address: 188 East 135th Street, Bronx, NY 10451	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C Squared	Method: Geoprobe	11-12ft bgs	Well Specifications
Date Started: 12/12/2018	Date Completed: 12/12/2018		No Well
Completion Depth: 15 feet	Geologist David Rukki		

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	23		0.0	0-3" - Crushed concrete 3-8" - (Fill) Light brown silty sand. Dry. No odors 8-14" - Crushed concrete 14-23" - Light/Dark brown silty sand. Dry. No odors
	to 10	6		0.0	0-5" - Black-brown silty sand with very loose yellow substance. Dry. No odor. 5-6" - Crushed stone. **Retained soil sample SB4(8-10)*
	to 15	0		0.0	No recovery

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB5 Boring Log

Location: 67' from Eastern property line and 27' from Southern property line.		Depth to Water	Site Elevation Datum
Site Name: 118 East 135th street	Address: 188 East 135th Street, Bronx, NY 10451	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C Squared	Method: Geoprobe	11-12ft bgs	Well Specifications
Date Started: 12/12/2018	Date Completed: 12/12/2018		No Well
Completion Depth: 15 feet	Geologist David Rukki		

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 5	21		0.0	0-11" - (FILL) Black-brown silty sand with minor fill. Dry. No odor. 11-17" - light brown/gray silty sand. Dry 17-21" - gray clay
	to 10	24		0.0	0-6" - light brown silty sand 6-16" - light brown silty sand with orange shade. Dry. No odors. 16-24" - Damp silty sand with clay. No odors. **Retained soil sample SB5(8-10)*

ATTACHMENT B

LABORATORY ANAYTICAL REPORTS

PHOENIX
Environmental Laboratories, Inc.

Wednesday, December 19, 2018

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 188 EAST 135TH ST BRONX NY
Sample ID#s: CC13976 - CC13983

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

December 19, 2018

SDG I.D.: GCC13976

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/FID method 504 or 8011 to achieve this criteria.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	8:15
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13976

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 1 (10-12`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Aluminum	5850	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Arsenic	15.8	0.75		mg/Kg	1	12/15/18	CPP	SW6010C	
Barium	168	0.7		mg/Kg	1	12/15/18	EK	SW6010C	B
Beryllium	0.44	0.30		mg/Kg	1	12/15/18	CPP	SW6010C	
Calcium	48200	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Cadmium	3.44	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Cobalt	10.3	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Chromium	46.3	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Copper	308	7.5		mg/kg	10	12/15/18	CPP	SW6010C	
Iron	59600	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Mercury	1.29	0.15		mg/Kg	1	12/14/18	RS	SW7471B	
Potassium	1120	7		mg/Kg	1	12/15/18	EK	SW6010C	
Magnesium	14000	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Manganese	597	3.7		mg/Kg	10	12/15/18	CPP	SW6010C	
Sodium	494	7		mg/Kg	1	12/15/18	CPP	SW6010C	
Nickel	38.3	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Lead	662	7.5		mg/Kg	10	12/15/18	CPP	SW6010C	
Antimony	15.1	3.7		mg/Kg	1	12/15/18	EK	SW6010C	
Selenium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Thallium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Vanadium	56.3	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Zinc	720	7.5		mg/Kg	10	12/15/18	CPP	SW6010C	
Percent Solid	87			%		12/13/18	AK	SW846-%Solid	
Soil Extraction for SVOA	Completed					12/13/18	JJ/CK	SW3545A	
Mercury Digestion	Completed					12/14/18	EV/EV	SW7471B	
Total Metals Digest	Completed					12/14/18	M/AG	SW3050B	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 1 (10-12`)

Phoenix I.D.: CC13976

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloropropene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dibromoethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dichloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloropropane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,3-Dichloropropane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
2,2-Dichloropropane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Chlorotoluene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
2-Hexanone	ND		24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Isopropyltoluene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	1
4-Chlorotoluene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Acetone	9.8	JS	24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		9.7	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Benzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Bromochloromethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromodichloromethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromoform	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromomethane	ND		4.8	1.9	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon Disulfide	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon tetrachloride	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Chlorobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroform	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloromethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromochloromethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromomethane	ND		4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Ethylbenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Hexachlorobutadiene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Isopropylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 1 (10-12`)

Phoenix I.D.: CC13976

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.7	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Methylene chloride	ND	4.8	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Naphthalene	ND	320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
n-Butylbenzene	ND	320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
n-Propylbenzene	ND	320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
o-Xylene	ND	4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
p-Isopropyltoluene	ND	320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
sec-Butylbenzene	ND	320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Styrene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
tert-Butylbenzene	ND	320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Tetrachloroethene	ND	4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.7	2.4	ug/Kg	1	12/15/18	JLI	SW8260C	1
Toluene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	640	160	ug/Kg	50	12/15/18	JLI	SW8260C	
Trichloroethene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorofluoromethane	ND	4.8	0.97	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	50	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	99			%	50	12/15/18	JLI	70 - 130 %	
% Dibromofluoromethane	100			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	94			%	1	12/15/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	72		ug/kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	121			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	73			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	94			%	1	12/15/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	19		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrolein	ND	4.8		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND	19		ug/Kg	1	12/15/18	JLI	SW8260C	
Tert-butyl alcohol	ND	97		ug/Kg	1	12/15/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	1	12/14/18	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Dichlorobenzene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,3-Dichlorobenzene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,4-Dichlorobenzene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,5-Trichlorophenol	ND	260	210	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 1 (10-12`)

Phoenix I.D.: CC13976

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dimethylphenol	ND		260	94	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	12/14/18	WB	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylnaphthalene	250	J	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		260	180	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitrophenol	ND		260	240	ug/Kg	1	12/14/18	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	12/14/18	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	12/14/18	WB	SW8270D	
3-Nitroaniline	ND		380	760	ug/Kg	1	12/14/18	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	76	ug/Kg	1	12/14/18	WB	SW8270D	
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloroaniline	ND		300	180	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitroaniline	ND		380	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitrophenol	ND		380	170	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthene	490		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthylene	550		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acetophenone	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Aniline	ND		300	300	ug/Kg	1	12/14/18	WB	SW8270D	
Anthracene	1500		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benz(a)anthracene	3400		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzidine	ND		380	220	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(a)pyrene	3200		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(b)fluoranthene	3000		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(ghi)perylene	1800		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(k)fluoranthene	2700		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzoic acid	ND		1900	760	ug/Kg	1	12/14/18	WB	SW8270D	
Benzyl butyl phthalate	ND		260	97	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Carbazole	360		190	150	ug/Kg	1	12/14/18	WB	SW8270D	
Chrysene	3400		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenz(a,h)anthracene	720		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenzofuran	320		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Diethyl phthalate	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dimethylphthalate	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-butylphthalate	ND		260	100	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-octylphthalate	ND		260	97	ug/Kg	1	12/14/18	WB	SW8270D	
Fluoranthene	7000		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Fluorene	470		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 1 (10-12`)

Phoenix I.D.: CC13976

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND		260	140	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorocyclopentadiene	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachloroethane	ND		190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	2100		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Isophorone	ND		190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Naphthalene	210	J	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Nitrobenzene	ND		190	130	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodimethylamine	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodiphenylamine	ND		260	150	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachloronitrobenzene	ND		260	140	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachlorophenol	ND		230	140	ug/Kg	1	12/14/18	WB	SW8270D	
Phenanthrene	5000		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Phenol	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyrene	6500		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Pyridine	ND		260	93	ug/Kg	1	12/14/18	WB	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	68				%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorobiphenyl	59				%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorophenol	50				%	1	12/14/18	WB	30 - 130 %	
% Nitrobenzene-d5	58				%	1	12/14/18	WB	30 - 130 %	
% Phenol-d5	58				%	1	12/14/18	WB	30 - 130 %	
% Terphenyl-d14	60				%	1	12/14/18	WB	30 - 130 %	
Field Extraction	Completed						12/12/18		SW5035A	1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

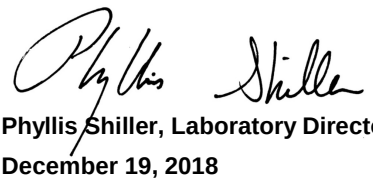
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.



Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	11:45
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13977

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 2 (7-9`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.40	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Aluminum	9320	40		mg/Kg	10	12/15/18	CPP	SW6010C	
Arsenic	8.39	0.80		mg/Kg	1	12/15/18	CPP	SW6010C	
Barium	285	0.8		mg/Kg	1	12/15/18	EK	SW6010C	B
Beryllium	0.52	0.32		mg/Kg	1	12/15/18	CPP	SW6010C	
Calcium	44500	40		mg/Kg	10	12/15/18	CPP	SW6010C	
Cadmium	2.61	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Cobalt	9.08	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Chromium	23.2	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Copper	159	0.8		mg/kg	1	12/15/18	CPP	SW6010C	
Iron	39300	40		mg/Kg	10	12/15/18	CPP	SW6010C	
Mercury	13.0	1.4		mg/Kg	1	12/14/18	RS	SW7471B	
Potassium	1840	8		mg/Kg	1	12/15/18	EK	SW6010C	
Magnesium	4420	4.0		mg/Kg	1	12/15/18	CPP	SW6010C	
Manganese	398	4.0		mg/Kg	10	12/15/18	CPP	SW6010C	
Sodium	396	8		mg/Kg	1	12/15/18	CPP	SW6010C	
Nickel	18.5	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Lead	959	8.0		mg/Kg	10	12/15/18	CPP	SW6010C	
Antimony	< 4.0	4.0		mg/Kg	1	12/15/18	CPP	SW6010C	
Selenium	< 1.6	1.6		mg/Kg	1	12/15/18	CPP	SW6010C	
Thallium	< 1.6	1.6		mg/Kg	1	12/15/18	CPP	SW6010C	
Vanadium	25.3	0.40		mg/Kg	1	12/15/18	CPP	SW6010C	
Zinc	877	8.0		mg/Kg	10	12/15/18	CPP	SW6010C	
Percent Solid	84			%		12/13/18	AK	SW846-%Solid	
Soil Extraction for SVOA	Completed					12/13/18	JJ/CK	SW3545A	
Mercury Digestion	Completed					12/14/18	EV/EV	SW7471B	
Total Metals Digest	Completed					12/14/18	M/AG	SW3050B	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 2 (7-9`)

Phoenix I.D.: CC13977

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloropropene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromoethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloropropane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichloropropane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
2,2-Dichloropropane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Chlorotoluene	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Hexanone	ND		24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Isopropyltoluene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	1
4-Chlorotoluene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Acetone	23	JS	24	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		9.6	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Benzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromochloromethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromodichloromethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromoform	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromomethane	ND		4.8	1.9	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon Disulfide	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon tetrachloride	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Chlorobenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroform	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloromethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromochloromethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromomethane	ND		4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Ethylbenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Hexachlorobutadiene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Isopropylbenzene	ND		4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 2 (7-9`)

Phoenix I.D.: CC13977

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND	29	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	9.6	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Methylene chloride	ND	4.8	4.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Naphthalene	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Butylbenzene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Propylbenzene	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
o-Xylene	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
p-Isopropyltoluene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
sec-Butylbenzene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Styrene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
tert-Butylbenzene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrachloroethene	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	9.6	2.4	ug/Kg	1	12/15/18	JLI	SW8260C	1
Toluene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	9.6	2.4	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichloroethene	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorofluoromethane	ND	4.8	0.96	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
Vinyl chloride	ND	4.8	0.48	ug/Kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	95			%	1	12/15/18	JLI	70 - 130 %	
% Dibromofluoromethane	95			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	100			%	1	12/15/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	72		ug/kg	1	12/15/18	JLI	SW8260C	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	19		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrolein	ND	4.8		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND	19		ug/Kg	1	12/15/18	JLI	SW8260C	
Tert-butyl alcohol	ND	96		ug/Kg	1	12/15/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,6-Trichlorophenol	ND	190	120	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dichlorophenol	ND	190	140	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dimethylphenol	ND	270	96	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrotoluene	ND	190	150	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 2 (7-9`)

Phoenix I.D.: CC13977

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,6-Dinitrotoluene	ND	190	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylnaphthalene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitrophenol	ND	270	250	ug/Kg	1	12/14/18	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/14/18	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	12/14/18	WB	SW8270D	
3-Nitroaniline	ND	390	770	ug/Kg	1	12/14/18	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	230	77	ug/Kg	1	12/14/18	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloroaniline	ND	310	180	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitroaniline	ND	390	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitrophenol	ND	390	170	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthylene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acetophenone	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Aniline	ND	310	310	ug/Kg	1	12/14/18	WB	SW8270D	
Anthracene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benz(a)anthracene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzidine	ND	390	230	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(a)pyrene	ND	190	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzoic acid	ND	1900	770	ug/Kg	1	12/14/18	WB	SW8270D	
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Carbazole	ND	190	150	ug/Kg	1	12/14/18	WB	SW8270D	
Chrysene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenz(a,h)anthracene	ND	190	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenzofuran	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Diethyl phthalate	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dimethylphthalate	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-octylphthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Fluoranthene	320	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Fluorene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobenzene	ND	190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachloroethane	ND	190	120	ug/Kg	1	12/14/18	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 2 (7-9`)

Phoenix I.D.: CC13977

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Isophorone	ND	190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Naphthalene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Nitrobenzene	ND	190	140	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	190	130	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachlorophenol	ND	230	150	ug/Kg	1	12/14/18	WB	SW8270D	
Phenanthrene	300	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Phenol	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyrene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Pyridine	ND	270	95	ug/Kg	1	12/14/18	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	73			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorobiphenyl	63			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorophenol	50			%	1	12/14/18	WB	30 - 130 %	
% Nitrobenzene-d5	60			%	1	12/14/18	WB	30 - 130 %	
% Phenol-d5	61			%	1	12/14/18	WB	30 - 130 %	
% Terphenyl-d14	65			%	1	12/14/18	WB	30 - 130 %	
Field Extraction	Completed					12/12/18		SW5035A	1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

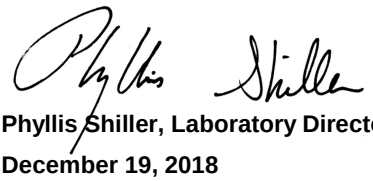
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.



Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	10:30
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13978

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 3 (7-9`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Aluminum	9190	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Arsenic	8.23	0.74		mg/Kg	1	12/15/18	CPP	SW6010C	
Barium	203	0.7		mg/Kg	1	12/15/18	EK	SW6010C	B
Beryllium	0.56	0.29		mg/Kg	1	12/15/18	CPP	SW6010C	
Calcium	6280	3.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Cadmium	0.90	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Cobalt	8.51	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Chromium	34.8	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Copper	63.9	0.7		mg/kg	1	12/15/18	CPP	SW6010C	
Iron	25000	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Mercury	0.53	0.14		mg/Kg	1	12/14/18	RS	SW7471B	
Potassium	1310	7		mg/Kg	1	12/15/18	EK	SW6010C	
Magnesium	3000	3.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Manganese	228	3.7		mg/Kg	10	12/15/18	CPP	SW6010C	
Sodium	375	7		mg/Kg	1	12/15/18	CPP	SW6010C	
Nickel	43.2	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Lead	382	7.4		mg/Kg	10	12/15/18	CPP	SW6010C	
Antimony	< 3.7	3.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Selenium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Thallium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Vanadium	23.5	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Zinc	195	7.4		mg/Kg	10	12/15/18	CPP	SW6010C	
Percent Solid	87			%		12/13/18	AK	SW846-%Solid	
Soil Extraction for SVOA	Completed					12/13/18	JJ/CK	SW3545A	
Mercury Digestion	Completed					12/14/18	EV/EV	SW7471B	
Total Metals Digest	Completed					12/14/18	M/AG	SW3050B	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 3 (7-9`)

Phoenix I.D.: CC13978

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloropropene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Chlorotoluene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
2-Hexanone	ND		31	6.3	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Isopropyltoluene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	1
4-Chlorotoluene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		31	6.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Acetone	23	JS	31	6.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		13	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Benzene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromobenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Bromochloromethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromodichloromethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromoform	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromomethane	ND		6.3	2.5	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon Disulfide	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Chlorobenzene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroform	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloromethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromochloromethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromomethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Ethylbenzene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Hexachlorobutadiene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Isopropylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 3 (7-9`)

Phoenix I.D.: CC13978

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		38	6.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		13	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Methylene chloride	ND		6.3	6.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Naphthalene	71	J	320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
n-Butylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
n-Propylbenzene	ND		320	64	ug/Kg	50	12/15/18	JLI	SW8260C	
o-Xylene	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
p-Isopropyltoluene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
sec-Butylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Styrene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
tert-Butylbenzene	ND		320	32	ug/Kg	50	12/15/18	JLI	SW8260C	
Tetrachloroethene	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND		13	3.1	ug/Kg	1	12/15/18	JLI	SW8260C	1
Toluene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		640	160	ug/Kg	50	12/15/18	JLI	SW8260C	
Trichloroethene	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.3	1.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
Vinyl chloride	ND		6.3	0.63	ug/Kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	50	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	99				%	50	12/15/18	JLI	70 - 130 %	
% Dibromofluoromethane	98				%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	95				%	1	12/15/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		94		ug/kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	105				%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	82				%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	95				%	1	12/15/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		25		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrolein	ND		6.3		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		25		ug/Kg	1	12/15/18	JLI	SW8260C	
Tert-butyl alcohol	ND		130		ug/Kg	1	12/15/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Dichlorobenzene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Diphenylhydrazine	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,5-Trichlorophenol	ND		260	210	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 3 (7-9`)

Phoenix I.D.: CC13978

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dimethylphenol	ND		260	93	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	12/14/18	WB	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylphenol (o-cresol)	ND		260	180	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitrophenol	ND		260	240	ug/Kg	1	12/14/18	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	12/14/18	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	12/14/18	WB	SW8270D	
3-Nitroaniline	ND		380	750	ug/Kg	1	12/14/18	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	75	ug/Kg	1	12/14/18	WB	SW8270D	
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloroaniline	ND		300	180	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitroaniline	ND		380	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitrophenol	ND		380	170	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthylene	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acetophenone	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Aniline	ND		300	300	ug/Kg	1	12/14/18	WB	SW8270D	
Anthracene	140	J	260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benz(a)anthracene	430		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzidine	ND		380	220	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(a)pyrene	470		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(b)fluoranthene	400		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(ghi)perylene	330		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(k)fluoranthene	380		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzoic acid	ND		1900	750	ug/Kg	1	12/14/18	WB	SW8270D	
Benzyl butyl phthalate	ND		260	97	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND		260	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Carbazole	ND		190	150	ug/Kg	1	12/14/18	WB	SW8270D	
Chrysene	450		260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenzofuran	ND		260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Diethyl phthalate	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dimethylphthalate	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-butylphthalate	ND		260	100	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-octylphthalate	ND		260	97	ug/Kg	1	12/14/18	WB	SW8270D	
Fluoranthene	780		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Fluorene	ND		260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 3 (7-9`)

Phoenix I.D.: CC13978

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND	260	140	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachloroethane	ND	190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	330	260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Isophorone	ND	190	110	ug/Kg	1	12/14/18	WB	SW8270D	
Naphthalene	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Nitrobenzene	ND	190	130	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodimethylamine	ND	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachlorophenol	ND	230	140	ug/Kg	1	12/14/18	WB	SW8270D	
Phenanthrene	520	260	110	ug/Kg	1	12/14/18	WB	SW8270D	
Phenol	ND	260	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyrene	740	260	130	ug/Kg	1	12/14/18	WB	SW8270D	
Pyridine	ND	260	92	ug/Kg	1	12/14/18	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	79			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorobiphenyl	61			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorophenol	55			%	1	12/14/18	WB	30 - 130 %	
% Nitrobenzene-d5	57			%	1	12/14/18	WB	30 - 130 %	
% Phenol-d5	61			%	1	12/14/18	WB	30 - 130 %	
% Terphenyl-d14	60			%	1	12/14/18	WB	30 - 130 %	
Field Extraction	Completed					12/12/18		SW5035A	1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

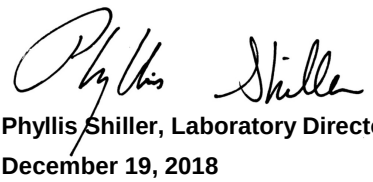
Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.



Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	9:45
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13979

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 4 (8-10`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.38	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Aluminum	9910	38		mg/Kg	10	12/15/18	CPP	SW6010C	
Arsenic	5.21	0.76		mg/Kg	1	12/15/18	CPP	SW6010C	
Barium	71.1	0.8		mg/Kg	1	12/15/18	EK	SW6010C	B
Beryllium	0.49	0.30		mg/Kg	1	12/15/18	CPP	SW6010C	
Calcium	1540	3.8		mg/Kg	1	12/15/18	CPP	SW6010C	
Cadmium	0.43	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Cobalt	10.7	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Chromium	17.4	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Copper	26.8	0.8		mg/kg	1	12/15/18	CPP	SW6010C	
Iron	20000	38		mg/Kg	10	12/15/18	CPP	SW6010C	
Mercury	0.24	0.13		mg/Kg	1	12/14/18	RS	SW7471B	
Potassium	2030	8		mg/Kg	1	12/15/18	EK	SW6010C	
Magnesium	2980	3.8		mg/Kg	1	12/15/18	CPP	SW6010C	
Manganese	293	3.8		mg/Kg	10	12/15/18	CPP	SW6010C	
Sodium	125	8		mg/Kg	1	12/15/18	CPP	SW6010C	
Nickel	16.3	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Lead	62.6	0.8		mg/Kg	1	12/15/18	CPP	SW6010C	
Antimony	< 3.8	3.8		mg/Kg	1	12/15/18	CPP	SW6010C	
Selenium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Thallium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Vanadium	26.3	0.38		mg/Kg	1	12/15/18	CPP	SW6010C	
Zinc	85.6	0.8		mg/Kg	1	12/15/18	CPP	SW6010C	
Percent Solid	90			%		12/13/18	AK	SW846-%Solid	
Soil Extraction for SVOA	Completed					12/13/18	JJ/CK	SW3545A	
Mercury Digestion	Completed					12/14/18	EV/EV	SW7471B	
Total Metals Digest	Completed					12/14/18	M/AG	SW3050B	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 4 (8-10`)

Phoenix I.D.: CC13979

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloropropene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Hexanone	ND		28	5.7	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		28	5.7	ug/Kg	1	12/15/18	JLI	SW8260C	
Acetone	10	JS	28	5.7	ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		11	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Benzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromobenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromochloromethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromodichloromethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromoform	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromomethane	ND		5.7	2.3	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon Disulfide	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Chlorobenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroform	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloromethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromochloromethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromomethane	ND		5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Ethylbenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Isopropylbenzene	ND		5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 4 (8-10`)

Phoenix I.D.: CC13979

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND	34	5.7	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	11	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Methylene chloride	ND	5.7	5.7	ug/Kg	1	12/15/18	JLI	SW8260C	
Naphthalene	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Butylbenzene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Propylbenzene	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
o-Xylene	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
p-Isopropyltoluene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
sec-Butylbenzene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Styrene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
tert-Butylbenzene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrachloroethene	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	11	2.8	ug/Kg	1	12/15/18	JLI	SW8260C	1
Toluene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	11	2.8	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichloroethene	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorofluoromethane	ND	5.7	1.1	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
Vinyl chloride	ND	5.7	0.57	ug/Kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	112			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	90			%	1	12/15/18	JLI	70 - 130 %	
% Dibromofluoromethane	94			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	98			%	1	12/15/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	85		ug/kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	112			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	90			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	98			%	1	12/15/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	23		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrolein	ND	5.7		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND	23		ug/Kg	1	12/15/18	JLI	SW8260C	
Tert-butyl alcohol	ND	110		ug/Kg	1	12/15/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	250	130	ug/Kg	1	12/14/18	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Dichlorobenzene	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Diphenylhydrazine	ND	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,3-Dichlorobenzene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,4-Dichlorobenzene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,5-Trichlorophenol	ND	250	200	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,6-Trichlorophenol	ND	180	120	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 4 (8-10`)

Phoenix I.D.: CC13979

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	180	130	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dimethylphenol	ND	250	89	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrophenol	ND	250	250	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrotoluene	ND	180	140	ug/Kg	1	12/14/18	WB	SW8270D	
2,6-Dinitrotoluene	ND	180	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chloronaphthalene	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chlorophenol	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylnaphthalene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitroaniline	ND	250	250	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitrophenol	ND	250	230	ug/Kg	1	12/14/18	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	1	12/14/18	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	180	170	ug/Kg	1	12/14/18	WB	SW8270D	
3-Nitroaniline	ND	360	720	ug/Kg	1	12/14/18	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	220	72	ug/Kg	1	12/14/18	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloro-3-methylphenol	ND	250	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloroaniline	ND	290	170	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitroaniline	ND	360	120	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitrophenol	ND	360	160	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthylene	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
Acetophenone	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Aniline	ND	290	290	ug/Kg	1	12/14/18	WB	SW8270D	
Anthracene	380	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benz(a)anthracene	700	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzidine	ND	360	210	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(a)pyrene	640	180	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(b)fluoranthene	530	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(ghi)perylene	330	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(k)fluoranthene	500	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Benzoic acid	ND	1800	720	ug/Kg	1	12/14/18	WB	SW8270D	
Benzyl butyl phthalate	ND	250	93	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	250	99	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	180	97	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
Carbazole	ND	180	140	ug/Kg	1	12/14/18	WB	SW8270D	
Chrysene	680	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenz(a,h)anthracene	ND	180	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenzofuran	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Diethyl phthalate	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Dimethylphthalate	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-butylphthalate	ND	250	96	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-octylphthalate	ND	250	93	ug/Kg	1	12/14/18	WB	SW8270D	
Fluoranthene	1700	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Fluorene	ND	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobenzene	ND	180	110	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 4 (8-10`)

Phoenix I.D.: CC13979

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND	250	130	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachloroethane	ND	180	110	ug/Kg	1	12/14/18	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	360	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Isophorone	ND	180	100	ug/Kg	1	12/14/18	WB	SW8270D	
Naphthalene	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
Nitrobenzene	ND	180	130	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	12/14/18	WB	SW8270D	
Phenanthrene	1300	250	100	ug/Kg	1	12/14/18	WB	SW8270D	
Phenol	ND	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyrene	1500	250	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyridine	ND	250	89	ug/Kg	1	12/14/18	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	74			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorobiphenyl	59			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorophenol	54			%	1	12/14/18	WB	30 - 130 %	
% Nitrobenzene-d5	58			%	1	12/14/18	WB	30 - 130 %	
% Phenol-d5	61			%	1	12/14/18	WB	30 - 130 %	
% Terphenyl-d14	61			%	1	12/14/18	WB	30 - 130 %	
Field Extraction	Completed					12/12/18		SW5035A	1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	9:00
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13980

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 5 (8-10`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Aluminum	12400	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Arsenic	2.64	0.74		mg/Kg	1	12/15/18	CPP	SW6010C	
Barium	27.3	0.7		mg/Kg	1	12/15/18	EK	SW6010C	B
Beryllium	0.53	0.29		mg/Kg	1	12/15/18	CPP	SW6010C	
Calcium	7670	3.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Cadmium	< 0.37	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Cobalt	6.10	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Chromium	17.9	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Copper	25.3	0.7		mg/kg	1	12/15/18	CPP	SW6010C	
Iron	14700	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Mercury	0.03	0.03		mg/Kg	1	12/14/18	RS	SW7471B	
Potassium	1470	7		mg/Kg	1	12/15/18	EK	SW6010C	
Magnesium	6300	37		mg/Kg	10	12/15/18	CPP	SW6010C	
Manganese	110	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Sodium	289	7		mg/Kg	1	12/15/18	CPP	SW6010C	
Nickel	14.4	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Lead	11.7	0.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Antimony	< 3.7	3.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Selenium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Thallium	< 1.5	1.5		mg/Kg	1	12/15/18	CPP	SW6010C	
Vanadium	22.5	0.37		mg/Kg	1	12/15/18	CPP	SW6010C	
Zinc	64.4	0.7		mg/Kg	1	12/15/18	CPP	SW6010C	
Percent Solid	85			%		12/13/18	AK	SW846-%Solid	
Soil Extraction for SVOA	Completed					12/13/18	JJ/CK	SW3545A	
Mercury Digestion	Completed					12/14/18	EV/EV	SW7471B	
Total Metals Digest	Completed					12/14/18	M/AG	SW3050B	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 5 (8-10`)

Phoenix I.D.: CC13980

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1,2-Trichloroethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloroethene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,1-Dichloropropene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Hexanone	ND		25	5.0	ug/Kg	1	12/15/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		25	5.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Acetone	36	S	25	5.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND		10	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Benzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromobenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromochloromethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromodichloromethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromoform	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Bromomethane	ND		5.0	2.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon Disulfide	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Chlorobenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloroform	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Chloromethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromochloromethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Dibromomethane	ND		5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Ethylbenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Isopropylbenzene	ND		5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 5 (8-10`)

Phoenix I.D.: CC13980

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
m&p-Xylene	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND	30	5.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Methylene chloride	ND	5.0	5.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Naphthalene	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Butylbenzene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
n-Propylbenzene	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
o-Xylene	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
p-Isopropyltoluene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
sec-Butylbenzene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Styrene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
tert-Butylbenzene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrachloroethene	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	10	2.5	ug/Kg	1	12/15/18	JLI	SW8260C	1
Toluene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	10	2.5	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichloroethene	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorofluoromethane	ND	5.0	1.0	ug/Kg	1	12/15/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
Vinyl chloride	ND	5.0	0.50	ug/Kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	96			%	1	12/15/18	JLI	70 - 130 %	
% Dibromofluoromethane	94			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	100			%	1	12/15/18	JLI	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	75		ug/kg	1	12/15/18	JLI	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	12/15/18	JLI	70 - 130 %	
% Bromofluorobenzene	96			%	1	12/15/18	JLI	70 - 130 %	
% Toluene-d8	100			%	1	12/15/18	JLI	70 - 130 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	20		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrolein	ND	5.0		ug/Kg	1	12/15/18	JLI	SW8260C	
Acrylonitrile	ND	20		ug/Kg	1	12/15/18	JLI	SW8260C	
Tert-butyl alcohol	ND	100		ug/Kg	1	12/15/18	JLI	SW8260C	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
1,3-Dichlorobenzene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
1,4-Dichlorobenzene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	1	12/14/18	WB	SW8270D	
2,4,6-Trichlorophenol	ND	200	120	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 5 (8-10`)

Phoenix I.D.: CC13980

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2,4-Dichlorophenol	ND	200	140	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dimethylphenol	ND	270	97	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrophenol	ND	270	270	ug/Kg	1	12/14/18	WB	SW8270D	
2,4-Dinitrotoluene	ND	200	150	ug/Kg	1	12/14/18	WB	SW8270D	
2,6-Dinitrotoluene	ND	200	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chloronaphthalene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Chlorophenol	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylnaphthalene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	12/14/18	WB	SW8270D	
2-Nitrophenol	ND	270	250	ug/Kg	1	12/14/18	WB	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	12/14/18	WB	SW8270D	1
3,3'-Dichlorobenzidine	ND	200	180	ug/Kg	1	12/14/18	WB	SW8270D	
3-Nitroaniline	ND	390	780	ug/Kg	1	12/14/18	WB	SW8270D	
4,6-Dinitro-2-methylphenol	ND	230	78	ug/Kg	1	12/14/18	WB	SW8270D	
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chloroaniline	ND	310	180	ug/Kg	1	12/14/18	WB	SW8270D	
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitroaniline	ND	390	130	ug/Kg	1	12/14/18	WB	SW8270D	
4-Nitrophenol	ND	390	180	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Acenaphthylene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Acetophenone	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Aniline	ND	310	310	ug/Kg	1	12/14/18	WB	SW8270D	
Anthracene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benz(a)anthracene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzidine	ND	390	230	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(a)pyrene	ND	200	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(b)fluoranthene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(ghi)perylene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzo(k)fluoranthene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Benzoic acid	ND	2000	780	ug/Kg	1	12/14/18	WB	SW8270D	
Benzyl butyl phthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroethyl)ether	ND	200	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Carbazole	ND	200	160	ug/Kg	1	12/14/18	WB	SW8270D	
Chrysene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenz(a,h)anthracene	ND	200	130	ug/Kg	1	12/14/18	WB	SW8270D	
Dibenzofuran	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Diethyl phthalate	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Dimethylphthalate	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-butylphthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Di-n-octylphthalate	ND	270	100	ug/Kg	1	12/14/18	WB	SW8270D	
Fluoranthene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Fluorene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorobenzene	ND	200	110	ug/Kg	1	12/14/18	WB	SW8270D	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: SB 5 (8-10`)

Phoenix I.D.: CC13980

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND	270	140	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Hexachloroethane	ND	200	120	ug/Kg	1	12/14/18	WB	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Isophorone	ND	200	110	ug/Kg	1	12/14/18	WB	SW8270D	
Naphthalene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Nitrobenzene	ND	200	140	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	12/14/18	WB	SW8270D	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachloronitrobenzene	ND	270	150	ug/Kg	1	12/14/18	WB	SW8270D	
Pentachlorophenol	ND	230	150	ug/Kg	1	12/14/18	WB	SW8270D	
Phenanthrene	ND	270	110	ug/Kg	1	12/14/18	WB	SW8270D	
Phenol	ND	270	120	ug/Kg	1	12/14/18	WB	SW8270D	
Pyrene	ND	270	130	ug/Kg	1	12/14/18	WB	SW8270D	
Pyridine	ND	270	96	ug/Kg	1	12/14/18	WB	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	77			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorobiphenyl	62			%	1	12/14/18	WB	30 - 130 %	
% 2-Fluorophenol	62			%	1	12/14/18	WB	30 - 130 %	
% Nitrobenzene-d5	61			%	1	12/14/18	WB	30 - 130 %	
% Phenol-d5	68			%	1	12/14/18	WB	30 - 130 %	
% Terphenyl-d14	64			%	1	12/14/18	WB	30 - 130 %	
Field Extraction	Completed					12/12/18		SW5035A	1

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	DR	12/12/18	8:40
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13981

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,4-Trimethylbenzene	1.8		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3,5-Trimethylbenzene	0.34	J	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2-Hexanone	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
2-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW1

Phoenix I.D.: CC13981

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.9	JS	5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Carbon Disulfide	0.40	J	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Ethylbenzene	0.32	J	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/15/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
m&p-Xylene	1.2		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/15/18	MH	SW8260C	
Naphthalene	1.6		1.0	1.0	ug/L	1	12/15/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
o-Xylene	0.60	J	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
sec-Butylbenzene	1.5		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	1
Toluene	1.3		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	101				%	1	12/15/18	MH	70 - 130 %	
% Bromofluorobenzene	96				%	1	12/15/18	MH	70 - 130 %	
% Dibromofluoromethane	100				%	1	12/15/18	MH	70 - 130 %	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW1

Phoenix I.D.: CC13981

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	12/15/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/15/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/15/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/15/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/15/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/15/18	MH	SW8260C

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	10:00
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13982

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/14/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/14/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/14/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/14/18	MH	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW2

Phoenix I.D.: CC13982

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	12/14/18	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	12/14/18	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/14/18	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	12/14/18	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/14/18	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/14/18	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/14/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	12/14/18	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	12/14/18	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/14/18	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/14/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/14/18	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/14/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	12/14/18	MH	70 - 130 %	
% Bromofluorobenzene	97			%	1	12/14/18	MH	70 - 130 %	
% Dibromofluoromethane	98			%	1	12/14/18	MH	70 - 130 %	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW2

Phoenix I.D.: CC13982

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/14/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/14/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/14/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/14/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/14/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/14/18	MH	SW8260C

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 19, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	DR	12/12/18	10:45
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC13976
Phoenix ID: CC13983

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/15/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW3

Phoenix I.D.: CC13983

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.7	JS	5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Carbon Disulfide	0.39	J	1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/15/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/15/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/15/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/15/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/15/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/15/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/15/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	12/15/18	MH	70 - 130 %	
% Bromofluorobenzene	96				%	1	12/15/18	MH	70 - 130 %	
% Dibromofluoromethane	100				%	1	12/15/18	MH	70 - 130 %	

Ver 1

Project ID: 188 EAST 135TH ST BRONX NY
Client ID: GW3

Phoenix I.D.: CC13983

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/15/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	12/15/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	12/15/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	12/15/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	12/15/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	12/15/18	MH	SW8260C

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 19, 2018

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 459938 (mg/kg), QC Sample No: CC12609 (CC13976, CC13977, CC13978, CC13979, CC13980)														
Mercury - Soil	BRL	0.02	0.20	0.29	NC	82.0	91.7	11.2	59.3	61.2	3.2	70 - 130	30	m
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 460033 (mg/kg), QC Sample No: CC14009 (CC13976, CC13977, CC13978, CC13979, CC13980)														
ICP Metals - Soil														
Aluminum	BRL	5.1	9510	9690	1.90	110			NC			75 - 125	30	
Antimony	BRL	3.4	<3.5	<3.4	NC	123			88.6			75 - 125	30	
Arsenic	BRL	0.68	7.18	7.57	5.30	101			99.8			75 - 125	30	
Barium	0.90	0.34	50.8	62.5	20.7	99.1			110			75 - 125	30	
Beryllium	BRL	0.27	0.44	0.47	NC	96.7			101			75 - 125	30	
Cadmium	BRL	0.34	<0.35	0.34	NC	98.3			101			75 - 125	30	
Calcium	BRL	5.1	1510	1590	5.20	97.8			NC			75 - 125	30	
Chromium	BRL	0.34	24.7	29.2	16.7	102			108			75 - 125	30	
Cobalt	BRL	0.34	2.98	3.08	3.30	103			103			75 - 125	30	
Copper	BRL	0.68	4.8	5.01	4.30	95.5			102			75 - 125	30	
Iron	BRL	5.1	20000	20500	2.50	125			NC			75 - 125	30	
Lead	BRL	0.34	5.6	5.82	3.90	101			102			75 - 125	30	
Magnesium	BRL	5.1	1480	1570	5.90	106			NC			75 - 125	30	
Manganese	BRL	0.34	62.7	63.9	1.90	101			107			75 - 125	30	
Nickel	BRL	0.34	4.75	5.02	5.50	97.3			103			75 - 125	30	
Potassium	BRL	5.1	1460	1580	7.90	113			NC			75 - 125	30	
Selenium	BRL	1.4	<1.4	<1.4	NC	99.7			99.9			75 - 125	30	
Silver	BRL	0.34	<0.35	<0.34	NC	95.3			101			75 - 125	30	
Sodium	BRL	5.1	51	123	82.8	99.0			111			75 - 125	30	r
Thallium	BRL	3.1	<1.4	<3.1	NC	98.8			102			75 - 125	30	
Vanadium	BRL	0.34	28.2	29.6	4.80	114			106			75 - 125	30	
Zinc	BRL	0.68	23.0	25.5	10.3	97.8			101			75 - 125	30	

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 19, 2018

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 459811 (ug/kg), QC Sample No: CC13734 (CC13976, CC13977, CC13978, CC13979, CC13980)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	73	70	4.2	73	69	5.6	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	71	69	2.9	68	64	6.1	30 - 130	30	
1,2-Dichlorobenzene	ND	180	65	63	3.1	61	58	5.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	68	66	3.0	70	66	5.9	30 - 130	30	
1,3-Dichlorobenzene	ND	230	64	62	3.2	55	53	3.7	30 - 130	30	
1,4-Dichlorobenzene	ND	230	65	63	3.1	59	56	5.2	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	84	77	8.7	86	80	7.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	82	78	5.0	84	78	7.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	80	78	2.5	80	77	3.8	30 - 130	30	
2,4-Dimethylphenol	ND	230	81	79	2.5	85	81	4.8	30 - 130	30	
2,4-Dinitrophenol	ND	230	14	<10	NC	31	34	9.2	30 - 130	30	I
2,4-Dinitrotoluene	ND	130	79	78	1.3	83	81	2.4	30 - 130	30	
2,6-Dinitrotoluene	ND	130	81	80	1.2	84	82	2.4	30 - 130	30	
2-Chloronaphthalene	ND	230	75	72	4.1	76	69	9.7	30 - 130	30	
2-Chlorophenol	ND	230	72	71	1.4	76	70	8.2	30 - 130	30	
2-Methylnaphthalene	ND	230	72	70	2.8	73	69	5.6	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	70	69	1.4	76	72	5.4	30 - 130	30	
2-Nitroaniline	ND	330	103	96	7.0	101	101	0.0	30 - 130	30	
2-Nitrophenol	ND	230	75	76	1.3	76	73	4.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	76	75	1.3	83	79	4.9	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	78	80	2.5	96	90	6.5	30 - 130	30	
3-Nitroaniline	ND	330	93	90	3.3	97	96	1.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	35	22	45.6	44	47	6.6	30 - 130	30	I,r
4-Bromophenyl phenyl ether	ND	230	82	79	3.7	82	73	11.6	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	81	79	2.5	82	82	0.0	30 - 130	30	
4-Chloroaniline	ND	230	74	74	0.0	81	78	3.8	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	81	77	5.1	79	74	6.5	30 - 130	30	
4-Nitroaniline	ND	230	79	77	2.6	83	82	1.2	30 - 130	30	
4-Nitrophenol	ND	230	76	74	2.7	79	77	2.6	30 - 130	30	
Acenaphthene	ND	230	76	72	5.4	74	70	5.6	30 - 130	30	
Acenaphthylene	ND	130	70	68	2.9	71	66	7.3	30 - 130	30	
Acetophenone	ND	230	62	61	1.6	70	65	7.4	30 - 130	30	
Aniline	ND	330	58	58	0.0	110	60	58.8	30 - 130	30	r
Anthracene	ND	230	76	75	1.3	79	72	9.3	30 - 130	30	
Benz(a)anthracene	ND	230	75	74	1.3	73	67	8.6	30 - 130	30	
Benzidine	ND	330	55	55	0.0	45	61	30.2	30 - 130	30	
Benzo(a)pyrene	ND	130	75	73	2.7	73	66	10.1	30 - 130	30	
Benzo(b)fluoranthene	ND	160	79	77	2.6	72	68	5.7	30 - 130	30	
Benzo(ghi)perylene	ND	230	72	71	1.4	76	68	11.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	76	72	5.4	71	65	8.8	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	35	35	0.0	30 - 130	30	I

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	84	81	3.6	81	73	10.4	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	71	71	0.0	70	66	5.9	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	60	58	3.4	61	57	6.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	53	52	1.9	52	49	5.9	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	86	83	3.6	90	78	14.3	30 - 130	30	
Carbazole	ND	230	77	75	2.6	81	74	9.0	30 - 130	30	
Chrysene	ND	230	78	75	3.9	78	71	9.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	80	79	1.3	85	75	12.5	30 - 130	30	
Dibenzofuran	ND	230	76	72	5.4	77	72	6.7	30 - 130	30	
Diethyl phthalate	ND	230	80	77	3.8	79	75	5.2	30 - 130	30	
Dimethylphthalate	ND	230	80	77	3.8	80	75	6.5	30 - 130	30	
Di-n-butylphthalate	ND	670	84	82	2.4	83	76	8.8	30 - 130	30	
Di-n-octylphthalate	ND	230	87	84	3.5	86	78	9.8	30 - 130	30	
Fluoranthene	ND	230	79	76	3.9	77	72	6.7	30 - 130	30	
Fluorene	ND	230	78	74	5.3	77	73	5.3	30 - 130	30	
Hexachlorobenzene	ND	130	75	73	2.7	73	64	13.1	30 - 130	30	
Hexachlorobutadiene	ND	230	73	72	1.4	66	63	4.7	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	53	53	0.0	22	12	58.8	30 - 130	30	m,r
Hexachloroethane	ND	130	63	61	3.2	53	50	5.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	71	72	1.4	76	68	11.1	30 - 130	30	
Isophorone	ND	130	66	65	1.5	65	62	4.7	30 - 130	30	
Naphthalene	ND	230	69	68	1.5	69	65	6.0	30 - 130	30	
Nitrobenzene	ND	130	68	68	0.0	72	67	7.2	30 - 130	30	
N-Nitrosodimethylamine	ND	230	59	57	3.4	63	58	8.3	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	70	69	1.4	73	68	7.1	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	80	77	3.8	79	75	5.2	30 - 130	30	
Pentachloronitrobenzene	ND	230	77	76	1.3	79	72	9.3	30 - 130	30	
Pentachlorophenol	ND	230	78	71	9.4	86	81	6.0	30 - 130	30	
Phenanthrene	ND	130	76	73	4.0	77	73	5.3	30 - 130	30	
Phenol	ND	230	72	70	2.8	75	72	4.1	30 - 130	30	
Pyrene	ND	230	79	77	2.6	79	74	6.5	30 - 130	30	
Pyridine	ND	230	44	42	4.7	44	42	4.7	30 - 130	30	
% 2,4,6-Tribromophenol	61	%	74	71	4.1	79	72	9.3	30 - 130	30	
% 2-Fluorobiphenyl	58	%	62	61	1.6	64	59	8.1	30 - 130	30	
% 2-Fluorophenol	55	%	66	64	3.1	72	65	10.2	30 - 130	30	
% Nitrobenzene-d5	53	%	58	58	0.0	63	59	6.6	30 - 130	30	
% Phenol-d5	61	%	70	68	2.9	74	71	4.1	30 - 130	30	
% Terphenyl-d14	54	%	62	60	3.3	63	57	10.0	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 460180 (ug/L), QC Sample No: CC12929 (CC13981, CC13983)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	109	109	0.0				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	100	100	0.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	111	108	2.7				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	107	110	2.8				70 - 130	30	
1,1-Dichloroethane	ND	1.0	98	99	1.0				70 - 130	30	
1,1-Dichloroethene	ND	1.0	100	101	1.0				70 - 130	30	
1,1-Dichloropropene	ND	1.0	103	101	2.0				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	115	115	0.0				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	105	103	1.9				70 - 130	30	

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	1.0	108	110	1.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	99	100	1.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	118	124	5.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	111	108	2.7				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	105	106	0.9				70 - 130	30
1,2-Dichloroethane	ND	1.0	106	106	0.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	103	101	2.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	98	99	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	101	102	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	108	106	1.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	102	103	1.0				70 - 130	30
1,4-dioxane	ND	100	109	110	0.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	106	105	0.9				70 - 130	30
2-Chlorotoluene	ND	1.0	98	100	2.0				70 - 130	30
2-Hexanone	ND	5.0	87	86	1.2				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	103	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	98	99	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	95	93	2.1				70 - 130	30
Acetone	ND	5.0	75	75	0.0				70 - 130	30
Acrolein	ND	5.0	110	110	0.0				70 - 130	30
Acrylonitrile	ND	5.0	108	104	3.8				70 - 130	30
Benzene	ND	0.70	100	98	2.0				70 - 130	30
Bromobenzene	ND	1.0	102	101	1.0				70 - 130	30
Bromochloromethane	ND	1.0	104	102	1.9				70 - 130	30
Bromodichloromethane	ND	0.50	111	108	2.7				70 - 130	30
Bromoform	ND	1.0	119	112	6.1				70 - 130	30
Bromomethane	ND	1.0	79	81	2.5				70 - 130	30
Carbon Disulfide	ND	1.0	99	97	2.0				70 - 130	30
Carbon tetrachloride	ND	1.0	100	99	1.0				70 - 130	30
Chlorobenzene	ND	1.0	100	101	1.0				70 - 130	30
Chloroethane	ND	1.0	103	106	2.9				70 - 130	30
Chloroform	ND	1.0	99	96	3.1				70 - 130	30
Chloromethane	ND	1.0	84	84	0.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	101	102	1.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	109	106	2.8				70 - 130	30
Dibromochloromethane	ND	0.50	117	117	0.0				70 - 130	30
Dibromomethane	ND	1.0	108	104	3.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	104	105	1.0				70 - 130	30
Ethylbenzene	ND	1.0	101	102	1.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	103	107	3.8				70 - 130	30
Isopropylbenzene	ND	1.0	98	99	1.0				70 - 130	30
m&p-Xylene	ND	1.0	100	100	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	89	89	0.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	109	112	2.7				70 - 130	30
Methylene chloride	ND	1.0	99	98	1.0				70 - 130	30
Naphthalene	ND	1.0	119	117	1.7				70 - 130	30
n-Butylbenzene	ND	1.0	101	103	2.0				70 - 130	30
n-Propylbenzene	ND	1.0	98	99	1.0				70 - 130	30
o-Xylene	ND	1.0	103	102	1.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	99	101	2.0				70 - 130	30
sec-Butylbenzene	ND	1.0	102	104	1.9				70 - 130	30
Styrene	ND	1.0	103	103	0.0				70 - 130	30
tert-butyl alcohol	ND	10	113	121	6.8				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
tert-Butylbenzene	ND	1.0	97	99	2.0				70 - 130	30
Tetrachloroethene	ND	1.0	102	102	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	102	103	1.0				70 - 130	30
Toluene	ND	1.0	101	100	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	101	101	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	106	103	2.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	116	115	0.9				70 - 130	30
Trichloroethene	ND	1.0	103	102	1.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	104	102	1.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	99	104	4.9				70 - 130	30
Vinyl chloride	ND	1.0	102	100	2.0				70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	102	101	1.0				70 - 130	30
% Bromofluorobenzene	97	%	102	102	0.0				70 - 130	30
% Dibromofluoromethane	100	%	101	100	1.0				70 - 130	30
% Toluene-d8	98	%	101	100	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 460184 (ug/L), QC Sample No: CC13632 (CC13982)

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	96	104	8.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	87	97	10.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	93	105	12.1				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	93	105	12.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	88	96	8.7				70 - 130	30
1,1-Dichloroethene	ND	1.0	91	99	8.4				70 - 130	30
1,1-Dichloropropene	ND	1.0	90	98	8.5				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	93	106	13.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	89	96	7.6				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	92	103	11.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	91	95	4.3				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	98	107	8.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	93	104	11.2				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	93	100	7.3				70 - 130	30
1,2-Dichloroethane	ND	1.0	87	101	14.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	88	97	9.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	91	95	4.3				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	92	98	6.3				70 - 130	30
1,3-Dichloropropane	ND	1.0	92	102	10.3				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	91	98	7.4				70 - 130	30
1,4-dioxane	ND	100	96	94	2.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	90	96	6.5				70 - 130	30
2-Chlorotoluene	ND	1.0	92	96	4.3				70 - 130	30
2-Hexanone	ND	5.0	71	80	11.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	94	98	4.2				70 - 130	30
4-Chlorotoluene	ND	1.0	90	96	6.5				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	76	90	16.9				70 - 130	30
Acetone	ND	5.0	63	73	14.7				70 - 130	30
Acrolein	ND	5.0	93	107	14.0				70 - 130	30
Acrylonitrile	ND	5.0	89	104	15.5				70 - 130	30
Benzene	ND	0.70	89	95	6.5				70 - 130	30
Bromobenzene	ND	1.0	92	98	6.3				70 - 130	30

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	1.0	88	100	12.8				70 - 130	30
Bromodichloromethane	ND	0.50	89	100	11.6				70 - 130	30
Bromoform	ND	1.0	94	107	12.9				70 - 130	30
Bromomethane	ND	1.0	78	84	7.4				70 - 130	30
Carbon Disulfide	ND	1.0	91	99	8.4				70 - 130	30
Carbon tetrachloride	ND	1.0	89	95	6.5				70 - 130	30
Chlorobenzene	ND	1.0	92	98	6.3				70 - 130	30
Chloroethane	ND	1.0	96	105	9.0				70 - 130	30
Chloroform	ND	1.0	86	93	7.8				70 - 130	30
Chloromethane	ND	1.0	76	85	11.2				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	90	97	7.5				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	92	101	9.3				70 - 130	30
Dibromochloromethane	ND	0.50	96	111	14.5				70 - 130	30
Dibromomethane	ND	1.0	89	102	13.6				70 - 130	30
Dichlorodifluoromethane	ND	1.0	98	107	8.8				70 - 130	30
Ethylbenzene	ND	1.0	93	98	5.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	97	100	3.0				70 - 130	30
Isopropylbenzene	ND	1.0	91	95	4.3				70 - 130	30
m&p-Xylene	ND	1.0	91	97	6.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	71	87	20.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	91	107	16.2				70 - 130	30
Methylene chloride	ND	1.0	87	97	10.9				70 - 130	30
Naphthalene	ND	1.0	95	112	16.4				70 - 130	30
n-Butylbenzene	ND	1.0	94	97	3.1				70 - 130	30
n-Propylbenzene	ND	1.0	92	96	4.3				70 - 130	30
o-Xylene	ND	1.0	92	99	7.3				70 - 130	30
p-Isopropyltoluene	ND	1.0	94	96	2.1				70 - 130	30
sec-Butylbenzene	ND	1.0	96	99	3.1				70 - 130	30
Styrene	ND	1.0	92	99	7.3				70 - 130	30
tert-butyl alcohol	ND	10	104	110	5.6				70 - 130	30
tert-Butylbenzene	ND	1.0	91	95	4.3				70 - 130	30
Tetrachloroethene	ND	1.0	90	98	8.5				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	84	99	16.4				70 - 130	30
Toluene	ND	1.0	90	97	7.5				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	90	98	8.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	89	99	10.6				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	96	107	10.8				70 - 130	30
Trichloroethene	ND	1.0	92	97	5.3				70 - 130	30
Trichlorofluoromethane	ND	1.0	94	101	7.2				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	93	101	8.2				70 - 130	30
Vinyl chloride	ND	1.0	94	101	7.2				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	101	2.0				70 - 130	30
% Bromofluorobenzene	95	%	100	102	2.0				70 - 130	30
% Dibromofluoromethane	101	%	100	103	3.0				70 - 130	30
% Toluene-d8	99	%	100	99	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 460164 (ug/kg), QC Sample No: CC13978 (CC13976 (50X) , CC13978 (50X))

Volatiles - Soil

1,1,2,2-Tetrachloroethane	ND	3.0	116	111	4.4	107	106	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	109	106	2.8	103	104	1.0	70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	5.0	117	115	1.7	111	110	0.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	112	105	6.5	110	112	1.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	108	108	0.0	109	110	0.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	111	108	2.7	100	98	2.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	111	110	0.9	109	109	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	108	108	0.0	110	110	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	112	109	2.7	111	111	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	112	108	3.6	111	110	0.9	70 - 130	30
2-Chlorotoluene	ND	5.0	109	111	1.8	110	110	0.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	113	112	0.9	114	114	0.0	70 - 130	30
4-Chlorotoluene	ND	5.0	109	109	0.0	110	109	0.9	70 - 130	30
Bromobenzene	ND	5.0	109	109	0.0	107	108	0.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	111	107	3.7	117	118	0.9	70 - 130	30
Isopropylbenzene	ND	1.0	109	110	0.9	109	109	0.0	70 - 130	30
Naphthalene	ND	5.0	108	105	2.8	99	99	0.0	70 - 130	30
n-Butylbenzene	ND	1.0	113	108	4.5	116	116	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	110	110	0.0	111	112	0.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	111	109	1.8	114	114	0.0	70 - 130	30
sec-Butylbenzene	ND	1.0	116	114	1.7	117	117	0.0	70 - 130	30
tert-Butylbenzene	ND	1.0	109	109	0.0	109	110	0.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	118	117	0.9	111	111	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	99	99	0.0	99	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 460156 (ug/kg), QC Sample No: CC14920 (CC13976, CC13977, CC13978, CC13979, CC13980)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	102	102	0.0	112	110	1.8	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	105	107	1.9	116	114	1.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	105	104	1.0	109	109	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	99	97	2.0	108	108	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	104	104	0.0	113	112	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	105	106	0.9	113	113	0.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	107	108	0.9	119	118	0.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	97	96	1.0	98	107	8.8	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	103	103	0.0	112	112	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	99	96	3.1	108	113	4.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	102	0.0	111	111	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	101	103	2.0	98	105	6.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	100	101	1.0	110	109	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	102	0.0	112	113	0.9	70 - 130	30
1,2-Dichloroethane	ND	5.0	105	104	1.0	117	116	0.9	70 - 130	30
1,2-Dichloropropane	ND	5.0	100	99	1.0	108	108	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	102	102	0.0	111	111	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	103	101	2.0	114	114	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	102	102	0.0	111	108	2.7	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	102	101	1.0	113	114	0.9	70 - 130	30
1,4-dioxane	ND	100	103	103	0.0	107	109	1.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	110	110	0.0	122	121	0.8	70 - 130	30
2-Chlorotoluene	ND	5.0	104	104	0.0	111	112	0.9	70 - 130	30
2-Hexanone	ND	25	76	78	2.6	75	77	2.6	70 - 130	30
2-Isopropyltoluene	ND	5.0	106	106	0.0	107	107	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	5.0	102	100	2.0	110	110	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	82	84	2.4	85	86	1.2	70 - 130	30	
Acetone	ND	10	61	62	1.6	45	45	0.0	70 - 130	30	l,m
Acrolein	ND	25	95	97	2.1	83	84	1.2	70 - 130	30	
Acrylonitrile	ND	5.0	97	100	3.0	99	98	1.0	70 - 130	30	
Benzene	ND	1.0	101	102	1.0	110	110	0.0	70 - 130	30	
Bromobenzene	ND	5.0	102	101	1.0	108	109	0.9	70 - 130	30	
Bromochloromethane	ND	5.0	105	105	0.0	115	114	0.9	70 - 130	30	
Bromodichloromethane	ND	5.0	101	102	1.0	112	111	0.9	70 - 130	30	
Bromoform	ND	5.0	98	97	1.0	105	103	1.9	70 - 130	30	
Bromomethane	ND	5.0	122	120	1.7	85	97	13.2	70 - 130	30	
Carbon Disulfide	ND	5.0	106	106	0.0	107	106	0.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	92	107	15.1	101	113	11.2	70 - 130	30	
Chlorobenzene	ND	5.0	104	104	0.0	113	112	0.9	70 - 130	30	
Chloroethane	ND	5.0	116	114	1.7	124	123	0.8	70 - 130	30	
Chloroform	ND	5.0	104	103	1.0	113	111	1.8	70 - 130	30	
Chloromethane	ND	5.0	94	95	1.1	100	99	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	105	0.9	113	109	3.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	104	103	1.0	114	112	1.8	70 - 130	30	
Dibromochloromethane	ND	3.0	104	105	1.0	111	112	0.9	70 - 130	30	
Dibromomethane	ND	5.0	99	100	1.0	111	110	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	121	123	1.6	134	132	1.5	70 - 130	30	m
Ethylbenzene	ND	1.0	104	104	0.0	114	113	0.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	104	1.9	117	117	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	104	105	1.0	111	110	0.9	70 - 130	30	
m&p-Xylene	ND	2.0	103	103	0.0	114	113	0.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	79	79	0.0	82	79	3.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	102	1.0	102	101	1.0	70 - 130	30	
Methylene chloride	ND	5.0	88	87	1.1	97	94	3.1	70 - 130	30	
Naphthalene	ND	5.0	97	97	0.0	91	102	11.4	70 - 130	30	
n-Butylbenzene	ND	1.0	104	105	1.0	116	117	0.9	70 - 130	30	
n-Propylbenzene	ND	1.0	105	106	0.9	112	112	0.0	70 - 130	30	
o-Xylene	ND	2.0	103	103	0.0	114	112	1.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	105	0.0	114	114	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	109	110	0.9	118	117	0.9	70 - 130	30	
Styrene	ND	5.0	102	101	1.0	113	112	0.9	70 - 130	30	
tert-butyl alcohol	ND	100	105	101	3.9	91	101	10.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	104	104	0.0	111	110	0.9	70 - 130	30	
Tetrachloroethene	ND	5.0	103	104	1.0	116	117	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	98	97	1.0	96	95	1.0	70 - 130	30	
Toluene	ND	1.0	101	101	0.0	112	111	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	105	106	0.9	116	112	3.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	101	100	1.0	113	111	1.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	109	108	0.9	103	104	1.0	70 - 130	30	
Trichloroethene	ND	5.0	106	108	1.9	117	117	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	115	115	0.0	114	112	1.8	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	105	107	1.9	107	105	1.9	70 - 130	30	
Vinyl chloride	ND	5.0	111	110	0.9	115	113	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	99	2.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	98	2.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	97	%	96	95	1.0	97	97	0.0	70 - 130	30	
% Toluene-d8	99	%	100	99	1.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCC13976

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 19, 2018

Wednesday, December 19, 2018

Criteria: NY: 375, 375GWP, 375RRS, 375RS, GW

State: NY

Sample Criteria Exceedances Report

GCC13976 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC13976	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	3000	260	1700	1700	ug/Kg
CC13976	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Ground Water Protection	2700	260	1700	1700	ug/Kg
CC13976	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	720	190	330	330	ug/Kg
CC13976	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	3200	190	1000	1000	ug/Kg
CC13976	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	2100	260	500	500	ug/Kg
CC13976	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	3000	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2700	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	2100	260	500	500	ug/Kg
CC13976	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	720	190	330	330	ug/Kg
CC13976	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	3000	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	3200	190	1000	1000	ug/Kg
CC13976	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2100	260	500	500	ug/Kg
CC13976	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3000	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	190	1000	1000	ug/Kg
CC13976	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	720	190	330	330	ug/Kg
CC13976	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3400	260	1000	1000	ug/Kg
CC13976	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	260	800	800	ug/Kg
CC13976	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	15.8	0.75	13	13	mg/Kg
CC13976	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	3.44	0.37	2.5	2.5	mg/Kg
CC13976	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	3.44	0.37	2.5	2.5	mg/Kg
CC13976	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	46.3	0.37	30		mg/Kg
CC13976	CU-SM	Copper	NY / 375-6.8 Metals / Residential	308	7.5	270	270	mg/kg
CC13976	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	308	7.5	270	270	mg/kg
CC13976	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	308	7.5	50	50	mg/kg
CC13976	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	1.29	0.15	0.73	0.73	mg/Kg
CC13976	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.29	0.15	0.81	0.81	mg/Kg
CC13976	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.29	0.15	0.81	0.81	mg/Kg
CC13976	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.29	0.15	0.18	0.18	mg/Kg
CC13976	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	38.3	0.37	30	30	mg/Kg
CC13976	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	662	7.5	450	450	mg/Kg
CC13976	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	662	7.5	400	400	mg/Kg
CC13976	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	662	7.5	400	400	mg/Kg
CC13976	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	662	7.5	63	63	mg/Kg
CC13976	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	720	7.5	109	109	mg/Kg
CC13977	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.61	0.40	2.5	2.5	mg/Kg

Wednesday, December 19, 2018

Criteria: NY: 375, 375GWP, 375RRS, 375RS, GW

State: NY

Sample Criteria Exceedances Report

GCC13976 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC13977	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.61	0.40	2.5	2.5	mg/Kg
CC13977	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	159	0.8	50	50	mg/kg
CC13977	HG-SM	Mercury	NY / 375-6.8 Metals / Ground Water Protection	13.0	1.4	0.73	0.73	mg/Kg
CC13977	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	13.0	1.4	0.81	0.81	mg/Kg
CC13977	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	13.0	1.4	0.81	0.81	mg/Kg
CC13977	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	13.0	1.4	0.18	0.18	mg/Kg
CC13977	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	959	8.0	450	450	mg/Kg
CC13977	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	959	8.0	400	400	mg/Kg
CC13977	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	959	8.0	400	400	mg/Kg
CC13977	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	959	8.0	63	63	mg/Kg
CC13977	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	877	8.0	109	109	mg/Kg
CC13978	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	34.8	0.37	30		mg/Kg
CC13978	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	63.9	0.7	50	50	mg/kg
CC13978	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.53	0.14	0.18	0.18	mg/Kg
CC13978	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	43.2	0.37	30	30	mg/Kg
CC13978	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	382	7.4	63	63	mg/Kg
CC13978	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	195	7.4	109	109	mg/Kg
CC13979	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.24	0.13	0.18	0.18	mg/Kg
CC13981	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC13981	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC13981	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC13982	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC13982	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC13982	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC13983	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC13983	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC13983	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Comments

December 19, 2018 SDG I.D.: GCC13976

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOA Narration

CHEM19 12/13/18-3: CC13976, CC13977, CC13978, CC13979, CC13980

The following Initial Calibration compounds did not meet RSD% criteria: 2,4-Dinitrophenol 26% (20%), 4,6-Dinitro-2-methylphenol 22% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.054 (0.1), Hexachlorobenzene 0.090 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.086 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM02 12/14/18-2: CC13982

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromomethane 35%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.242 (0.3), 1,2-Dibromo-3-chloropropane 0.029 (0.05), Acrolein 0.019 (0.05), Acrylonitrile 0.049 (0.05), Bromoform 0.083 (0.1), Tetrahydrofuran (THF) 0.038 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM02 12/15/18-1: CC13981, CC13983

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 29% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.028 (0.05), 2-Hexanone 0.085 (0.1), Acetone 0.057 (0.1), Acrolein 0.021 (0.05), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.070 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Bromomethane 33%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.
The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.242 (0.3), 1,2-Dibromo-3-chloropropane 0.030 (0.05), Acrolein 0.021 (0.05), Bromoform 0.089 (0.1), Tetrahydrofuran (THF) 0.037 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 19, 2018 SDG I.D.: GCC13976

CHEM03 12/14/18-2: CC13976, CC13977, CC13978, CC13979, CC13980

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,3-Trichlorobenzene 25% (20%), Acetone 36% (20%), Methyl Ethyl Ketone 21% (20%), Naphthalene 33% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM03 12/15/18-1: CC13976, CC13978

The following Initial Calibration compounds did not meet RSD% criteria: 1,2,3-Trichlorobenzene 25% (20%), Naphthalene 33% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

December 19, 2018

SDG I.D.: GCC13976

The samples in this delivery group were received at 3.6°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [√] No [ ]
Coolant: IPK [X] ICE [√] No [ ]
Temp 3.1 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone: 631-504-6000
[X] Email: File

Customer: Environmental Business Consultants
Address: 1808 Middle Country Road
Ridge, NY 11961

Project: 188 East 135th Street, Bronx, NY
Report to: Environmental Business Consultants
Invoice to: Environmental Business Consultants

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: David Rukk Date: 12-12-18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request: VOCs 8260 | SVOCs 8270 | TAL Metals

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	TAL Metals	Soil VOA Vials [√] methanol [√] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [√] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
13976	SB1 (10-12')	S	12-12-18	8:15	X	X	X	3	1								
13977	SB2 (7-9')	S		11:45	X	X	X	3	1								
13978	SB3 (7-9')	S		10:30	X	X	X	3	1								
13979	SB4 (8-10')	S		9:45	X	X	X	3	1								
13980	SB5 (8-10')	S		9:00	X	X	X	3	1								
13981	GW1	GW		8:40	X					3							
13982	GW2	GW		10:00	X					3							
13983	GW3	GW	↓	10:45	X					3							

Relinquished by:	Accepted by:	Date:	Time:
David Rukk		12-13-18	13:00
		12-13-18	1430

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[X] NY 375 GWP
[X] NY375 Unrestricted Use Soil
[X] NY375 Residential Soil
[X] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[ ] Phoenix Std Report
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Friday, December 14, 2018

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 188 EAST 135TH ST BRONX
Sample ID#s: CC13973 - CC13975

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 14, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DR	12/12/18	11:56
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	23346				

Laboratory Data

SDG ID: GCC13973
Phoenix ID: CC13973

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethene	ND	*0.051*	ND	*0.20*	12/13/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/13/18	KCA	1	
1,2,4-Trimethylbenzene	0.591	*0.204*	2.90	*1.00*	12/13/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/13/18	KCA	1	
1,3,5-Trimethylbenzene	0.288	*0.204*	1.41	*1.00*	12/13/18	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/13/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/13/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/13/18	KCA	1	1
4-Ethyltoluene	0.877	*0.204*	4.31	*1.00*	12/13/18	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/13/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	12/13/18	KCA	1	
Acetone	121	*2.11*	287	*5.01*	12/14/18	KCA	5	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/13/18	KCA	1	
Benzene	1.67	*0.313*	5.33	*1.00*	12/13/18	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/13/18	KCA	1	

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 1

Phoenix I.D.: CC13973

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/13/18	KCA	1	
Bromoform	ND	*0.097*	ND	*1.00*	12/13/18	KCA	1	
Bromomethane	ND	*0.258*	ND	*1.00*	12/13/18	KCA	1	
Carbon Disulfide	4.73	*0.321*	14.7	*1.00*	12/13/18	KCA	1	
Carbon Tetrachloride	ND	*0.032*	ND	*0.20*	12/13/18	KCA	1	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/13/18	KCA	1	
Chloroethane	ND	*0.379*	ND	*1.00*	12/13/18	KCA	1	
Chloroform	ND	*0.205*	ND	*1.00*	12/13/18	KCA	1	
Chloromethane	ND	*0.485*	ND	*1.00*	12/13/18	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.051*	ND	*0.20*	12/13/18	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/13/18	KCA	1	
Cyclohexane	2.49	*0.291*	8.57	*1.00*	12/13/18	KCA	1	
Dibromochloromethane	ND	*0.118*	ND	*1.00*	12/13/18	KCA	1	
Dichlorodifluoromethane	0.295	*0.202*	1.46	*1.00*	12/13/18	KCA	1	
Ethanol	14.6	*0.531*	27.5	*1.00*	12/13/18	KCA	1	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/13/18	KCA	1	1
Ethylbenzene	0.926	*0.230*	4.02	*1.00*	12/13/18	KCA	1	
Heptane	10.2	*0.244*	41.8	*1.00*	12/13/18	KCA	1	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/13/18	KCA	1	
Hexane	22.0	*0.284*	77.5	*1.00*	12/13/18	KCA	1	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/13/18	KCA	1	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	12/13/18	KCA	1	
m,p-Xylene	3.47	*0.230*	15.1	*1.00*	12/13/18	KCA	1	
Methyl Ethyl Ketone	7.46	*0.339*	22.0	*1.00*	12/13/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/13/18	KCA	1	
Methylene Chloride	18.7	*0.864*	64.9	*3.00*	12/13/18	KCA	1	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/13/18	KCA	1	1
o-Xylene	1.23	*0.230*	5.34	*1.00*	12/13/18	KCA	1	
Propylene	ND	*0.581*	ND	*1.00*	12/13/18	KCA	1	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/13/18	KCA	1	1
Styrene	0.359	*0.235*	1.53	*1.00*	12/13/18	KCA	1	
Tetrachloroethene	0.553	*0.037*	3.75	*0.25*	12/13/18	KCA	1	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	12/13/18	KCA	1	1
Toluene	4.64	*0.266*	17.5	*1.00*	12/13/18	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/13/18	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	ND	*1.00*	12/13/18	KCA	1	
Trichloroethene	ND	*0.037*	ND	*0.20*	12/13/18	KCA	1	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	12/13/18	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	ND	*1.00*	12/13/18	KCA	1	
Vinyl Chloride	ND	*0.078*	ND	*0.20*	12/13/18	KCA	1	
QA/QC Surrogates								
% Bromofluorobenzene	88	*%*	88	*%*	12/13/18	KCA	1	

Ver 1

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 1

Phoenix I.D.: CC13973

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
December 14, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 14, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DR	12/12/18	12:32
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	11290				

Laboratory Data

SDG ID: GCC13973
Phoenix ID: CC13974

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethene	ND	*0.051*	ND	*0.20*	12/13/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/13/18	KCA	1	
1,2,4-Trimethylbenzene	0.512	*0.204*	2.52	*1.00*	12/13/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/13/18	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	12/13/18	KCA	1	
1,3-Butadiene	4.02	*0.452*	8.89	*1.00*	12/13/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/13/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/13/18	KCA	1	1
4-Ethyltoluene	0.764	*0.204*	3.75	*1.00*	12/13/18	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/13/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.557	*0.244*	2.28	*1.00*	12/13/18	KCA	1	
Acetone	104	*2.11*	247	*5.01*	12/14/18	KCA	5	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/13/18	KCA	1	
Benzene	0.869	*0.313*	2.77	*1.00*	12/13/18	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/13/18	KCA	1	

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 2

Phoenix I.D.: CC13974

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	ND	*1.00*	12/13/18	KCA	1	
Bromoform	ND		*0.097*	ND	*1.00*	12/13/18	KCA	1	
Bromomethane	ND		*0.258*	ND	*1.00*	12/13/18	KCA	1	
Carbon Disulfide	1.65		*0.321*	5.13	*1.00*	12/13/18	KCA	1	
Carbon Tetrachloride	ND		*0.032*	ND	*0.20*	12/13/18	KCA	1	
Chlorobenzene	ND		*0.217*	ND	*1.00*	12/13/18	KCA	1	
Chloroethane	ND		*0.379*	ND	*1.00*	12/13/18	KCA	1	
Chloroform	ND		*0.205*	ND	*1.00*	12/13/18	KCA	1	
Chloromethane	ND		*0.485*	ND	*1.00*	12/13/18	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.051*	ND	*0.20*	12/13/18	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	12/13/18	KCA	1	
Cyclohexane	2.94		*0.291*	10.1	*1.00*	12/13/18	KCA	1	
Dibromochloromethane	ND		*0.118*	ND	*1.00*	12/13/18	KCA	1	
Dichlorodifluoromethane	0.342		*0.202*	1.69	*1.00*	12/13/18	KCA	1	
Ethanol	22.3		*0.531*	42.0	*1.00*	12/13/18	KCA	1	1
Ethyl acetate	ND		*0.278*	ND	*1.00*	12/13/18	KCA	1	1
Ethylbenzene	0.577		*0.230*	2.50	*1.00*	12/13/18	KCA	1	
Heptane	0.936		*0.244*	3.83	*1.00*	12/13/18	KCA	1	
Hexachlorobutadiene	ND		*0.094*	ND	*1.00*	12/13/18	KCA	1	
Hexane	1.63	S	*0.284*	5.74	*1.00*	12/13/18	KCA	1	
Isopropylalcohol	0.710		*0.407*	1.74	*1.00*	12/13/18	KCA	1	
Isopropylbenzene	ND		*0.204*	ND	*1.00*	12/13/18	KCA	1	
m,p-Xylene	2.37		*0.230*	10.3	*1.00*	12/13/18	KCA	1	
Methyl Ethyl Ketone	3.90		*0.339*	11.5	*1.00*	12/13/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	ND	*1.00*	12/13/18	KCA	1	
Methylene Chloride	3.52	S	*0.864*	12.2	*3.00*	12/13/18	KCA	1	
n-Butylbenzene	ND		*0.182*	ND	*1.00*	12/13/18	KCA	1	1
o-Xylene	0.779		*0.230*	3.38	*1.00*	12/13/18	KCA	1	
Propylene	97.4		*2.91*	168	*5.01*	12/14/18	KCA	5	1
sec-Butylbenzene	ND		*0.182*	ND	*1.00*	12/13/18	KCA	1	1
Styrene	0.280		*0.235*	1.19	*1.00*	12/13/18	KCA	1	
Tetrachloroethene	0.091		*0.037*	0.62	*0.25*	12/13/18	KCA	1	
Tetrahydrofuran	2.69		*0.339*	7.93	*1.00*	12/13/18	KCA	1	1
Toluene	2.80		*0.266*	10.5	*1.00*	12/13/18	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	12/13/18	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	12/13/18	KCA	1	
Trichloroethene	ND		*0.037*	ND	*0.20*	12/13/18	KCA	1	
Trichlorofluoromethane	ND		*0.178*	ND	*1.00*	12/13/18	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	ND	*1.00*	12/13/18	KCA	1	
Vinyl Chloride	0.190		*0.078*	0.49	*0.20*	12/13/18	KCA	1	
QA/QC Surrogates									
% Bromofluorobenzene	88		*%*	88	*%*	12/13/18	KCA	1	

Ver 1

Project ID: 188 EAST 135TH ST BRONX
Client ID: SV 2

Phoenix I.D.: CC13974

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 14, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 14, 2018

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	DR	12/12/18	12:25
Location Code:	EBC	Received by:	SW	12/13/18	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	19425				

Laboratory Data

SDG ID: GCC13973
Phoenix ID: CC13975

Project ID: 188 EAST 135TH ST BRONX
Client ID: SS 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/13/18	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,1-Dichloroethene	ND	*0.051*	ND	*0.20*	12/13/18	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/13/18	KCA	1	
1,2,4-Trimethylbenzene	0.979	*0.204*	4.81	*1.00*	12/13/18	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/13/18	KCA	1	
1,2-dichloropropane	ND	*0.217*	ND	*1.00*	12/13/18	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/13/18	KCA	1	
1,3,5-Trimethylbenzene	0.350	*0.204*	1.72	*1.00*	12/13/18	KCA	1	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/13/18	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/13/18	KCA	1	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/13/18	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/13/18	KCA	1	1
4-Ethyltoluene	1.25	*0.204*	6.14	*1.00*	12/13/18	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/13/18	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.352	*0.244*	1.44	*1.00*	12/13/18	KCA	1	
Acetone	62.5	*2.11*	148	*5.01*	12/14/18	KCA	5	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/13/18	KCA	1	
Benzene	1.84	*0.313*	5.87	*1.00*	12/13/18	KCA	1	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/13/18	KCA	1	

Project ID: 188 EAST 135TH ST BRONX
Client ID: SS 1

Phoenix I.D.: CC13975

Parameter	ppbv Result		ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	ND	*1.00*	12/13/18	KCA	1	
Bromoform	ND		*0.097*	ND	*1.00*	12/13/18	KCA	1	
Bromomethane	ND		*0.258*	ND	*1.00*	12/13/18	KCA	1	
Carbon Disulfide	1.17		*0.321*	3.64	*1.00*	12/13/18	KCA	1	
Carbon Tetrachloride	0.053		*0.032*	0.33	*0.20*	12/13/18	KCA	1	
Chlorobenzene	ND		*0.217*	ND	*1.00*	12/13/18	KCA	1	
Chloroethane	ND		*0.379*	ND	*1.00*	12/13/18	KCA	1	
Chloroform	ND		*0.205*	ND	*1.00*	12/13/18	KCA	1	
Chloromethane	ND		*0.485*	ND	*1.00*	12/13/18	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.051*	ND	*0.20*	12/13/18	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	12/13/18	KCA	1	
Cyclohexane	0.310		*0.291*	1.07	*1.00*	12/13/18	KCA	1	
Dibromochloromethane	ND		*0.118*	ND	*1.00*	12/13/18	KCA	1	
Dichlorodifluoromethane	0.304		*0.202*	1.50	*1.00*	12/13/18	KCA	1	
Ethanol	10.5		*0.531*	19.8	*1.00*	12/13/18	KCA	1	1
Ethyl acetate	ND		*0.278*	ND	*1.00*	12/13/18	KCA	1	1
Ethylbenzene	1.26		*0.230*	5.47	*1.00*	12/13/18	KCA	1	
Heptane	0.797		*0.244*	3.26	*1.00*	12/13/18	KCA	1	
Hexachlorobutadiene	ND		*0.094*	ND	*1.00*	12/13/18	KCA	1	
Hexane	0.375	S	*0.284*	1.32	*1.00*	12/13/18	KCA	1	
Isopropylalcohol	1.17		*0.407*	2.87	*1.00*	12/13/18	KCA	1	
Isopropylbenzene	ND		*0.204*	ND	*1.00*	12/13/18	KCA	1	
m,p-Xylene	4.22		*0.230*	18.3	*1.00*	12/13/18	KCA	1	
Methyl Ethyl Ketone	4.24		*0.339*	12.5	*1.00*	12/13/18	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	ND	*1.00*	12/13/18	KCA	1	
Methylene Chloride	ND		*0.864*	ND	*3.00*	12/13/18	KCA	1	
n-Butylbenzene	0.223		*0.182*	1.22	*1.00*	12/13/18	KCA	1	1
o-Xylene	1.49		*0.230*	6.47	*1.00*	12/13/18	KCA	1	
Propylene	1.62		*0.581*	2.79	*1.00*	12/13/18	KCA	1	1
sec-Butylbenzene	ND		*0.182*	ND	*1.00*	12/13/18	KCA	1	1
Styrene	0.676		*0.235*	2.88	*1.00*	12/13/18	KCA	1	
Tetrachloroethene	0.846		*0.037*	5.73	*0.25*	12/13/18	KCA	1	
Tetrahydrofuran	ND		*0.339*	ND	*1.00*	12/13/18	KCA	1	1
Toluene	5.74		*0.266*	21.6	*1.00*	12/13/18	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	ND	*1.00*	12/13/18	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	ND	*1.00*	12/13/18	KCA	1	
Trichloroethene	0.065		*0.037*	0.35	*0.20*	12/13/18	KCA	1	
Trichlorofluoromethane	0.329		*0.178*	1.85	*1.00*	12/13/18	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	ND	*1.00*	12/13/18	KCA	1	
Vinyl Chloride	ND		*0.078*	ND	*0.20*	12/13/18	KCA	1	
QA/QC Surrogates									
% Bromofluorobenzene	79		*%*	79	*%*	12/13/18	KCA	1	

Project ID: 188 EAST 135TH ST BRONX
Client ID: SS 1

Phoenix I.D.: CC13975

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 14, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 14, 2018

QA/QC Data

SDG I.D.: GCC13973

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 459950 (ppbv), QC Sample No: CC13975 (CC13973 (1X, 5X) , CC13974 (1X, 5X) , CC13975 (1X, 5X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	85	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	88	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	83	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	149	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	98	4.81	4.62	0.979	0.941	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	85	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	92	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	100	1.72	1.75	0.350	0.357	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	90	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	101	6.14	5.85	1.25	1.19	4.9	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	91	1.44	1.54	0.352	0.377	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	82	131	129	55.1	54.5	1.1	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	90	5.87	5.59	1.84	1.75	5.0	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	86	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	83	3.64	3.36	1.17	1.08	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	88	0.33	0.30	0.053	0.047	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	89	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	82	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	89	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	92	1.07	1.06	0.310	0.309	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	98	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	93	1.50	1.45	0.304	0.293	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	99	19.8	17.5	10.5	9.27	12.4	70 - 130	25

QA/QC Data

SDG I.D.: GCC13973

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	80	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	5.47	5.64	1.26	1.30	3.1	70 - 130	25
Heptane	ND	0.240	ND	0.98	89	3.26	2.93	0.797	0.715	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	123	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	89	1.32 S	ND	0.375 S	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	82	2.87	2.92	1.17	1.19	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	99	18.3	18.4	4.22	4.25	0.7	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	78	12.5	12.9	4.24	4.38	3.2	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	87	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	81	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	99	1.22	1.26	0.223	0.229	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	104	6.47	6.29	1.49	1.45	2.7	70 - 130	25
Propylene	ND	0.580	ND	1.00	95	2.79	2.89	1.62	1.68	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	96	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	104	2.88	3.39	0.676	0.797	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	104	5.73	6.14	0.846	0.906	6.8	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	97	21.6	21.4	5.74	5.69	0.9	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	85	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	100	0.35	0.30	0.065	0.056	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	85	1.85	1.56	0.329	0.278	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	86	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	91	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	98		98		105	79	83	79	83	NC	70 - 130	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 14, 2018

Friday, December 14, 2018

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCC13973 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

December 14, 2018 SDG I.D.: GCC13973

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370 Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # | Page 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: File
☐ Phone #:

Report to: Keith Butler
Customer: EBC
Address:

Invoice to: EBC

Sampled by: David Rukk.

Project Name: 188 East 135th Street, Bronx
Requested Deliverable: RCP ☐ ASP CAT B ☐
MCP ☐ NJ Deliverables ☐
State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
	Did not use	23346	6.0	-30		4985	43										
13973	SV 1	19589			-6	4959		10:08	11:56	12-12-18	-28	-5		X			X
13974	SV2	11290			-3	5652		10:21	12:32	12-12-18	-30	-5		X			X
13975	SS1	19425			-7	5593		10:15	12:25	12-12-18	-29	-5		X			X

Relinquished by:	Accepted by:	Date:	Time:
David Rukk.		12-13-18	13:00
		12-13-18	11:30

Data Format: Excel ☒ Equis ☐
Turnaround Time:
☐ 24 Hour ☐ 48 H

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(47)(6.0)(24HR)

Requested Criteria

Quote Number:

I attest that all media released received in good working cr back of this document:

Signature: