March 15, 2018

Moris Yeroshalmie
American Builders Company
45 North Station Plaza, Suite 315
Great Neck, NY11021

Re: Phase II Subsurface Investigation
Undeveloped Property
Beach Channel Drive and Beach 62nd Street, Arverne, New York

Dear Mr. Yeroshalmie:

Environmental Business Consultants (EBC) is pleased to provide this letter report documenting the results of the Phase II Environmental Site Assessment (ESA) performed at the above-referenced property on February 23, 2018 in accordance with EBC's proposal, dated February 8, 2018.

Background

The Site consists of five contiguous tax parcels, totaling 2.69-acres (117,094 square feet), and located on the east side of Beach 62nd Street between Beach Channel Drive to the south, and Thursby Avenue to the north, in the Arverne section of the Borough of Queens, City of New York, Queens County, New York (**Figure 1**). The Site identified as Borough 4, Block 16011, Lot Nos. 1, 32 and 35 and Block 16014, Lot Nos. 1 and 22 on the New York City Tax Maps.

The property is vacant/undeveloped and overgrown, with a portion of a modular building located at the southeastern portion of the site. Southern portions are paved with gravel/ground asphalt, associated with a former new vehicle storage lot. Remaining portions of the property are unpaved although most areas showed the presence of varying amounts of recycled concrete aggregate (RCA) at the surface. A concrete slab associated with the former site building, was also present at the northwestern corner of the site. Minor amounts of non-hazardous household trash and debris were also strewn across the property, with several vegetated soil/debris piles located on or immediately adjacent to the far eastern portions of the property. The site perimeters are enclosed with 6-foot tall chain link fencing, except for portions of the eastern boundary, which is bordered by NYC-owned land bordering Sommerville Basin. A lockable, double-wide access gate is present on the western side of the property, opposite a driveway entrance leading from Beach 62nd Street. An additional double-wide gate is further to the south along Beach 62nd, with no corresponding driveway entrance/curb cut and a single pedestrian access gate is to the south along Beach Channel Drive. Sidewalks also border the site to the south and west, along Beach Channel Drive and Beach 62nd Street, respectively.

EBC's Phase I Screening Report of the property, dated February 20, 2018, identified two potential environmental concern/Business Environmental Risks (BERs), and the report recommended additional investigation to determine if they presented a significant environmental risk to the site. The identified environmental concerns/BERs are summarized below:

- Historic Sanborn maps suggest that the Site was marshlands in 1912 and that far eastern portions of the Site may have been located within the footprint of Sommerville Basin. As such, there is a potential presence for fill materials to be present beneath the Site. Since no

information regarding the nature or source of the fill materials was available for review, there is a potential for the fill materials to be contaminated and/or structurally unsuitable.

- The site (Block 16014, Lot No.1) was listed on the E-Designation database as having a E-Hazmat and E-Air restrictions (E-215), which was determined during the Rockaway Neighborhood Rezoning completed by the City in August 2008 (CEQR 08DCP065Q). The Hazardous Materials designation indicates that there is a potential for soil and groundwater beneath the Site to be impacted by historic operations at the Site or adjacent properties. The Air E-Designation requires any new residential or commercial structures to have HVAC stacks located 62 (No. 2 fuel oil) or 82 (No. 4 fuel oil) from the lot line facing Beach 59th Street or use natural gas for space heating and hot water (HVAC) systems. The Hazmat and Noise E-designations require the issuance of a Notice to Proceed by the NYC Office of Environmental Remediation (OER) before the property can be redeveloped.

Soil Boring Investigation

To evaluate soils conditions at the site and determine if the filling of historic marshland areas have impacted the, EBC conducted a subsurface investigation consisting of ten (10) soil borings (SB1 through SB10) at representative locations across the site, including the former site buildings (northwest), vehicle storage areas (south) and proximate to soil piles observed during the Phase I Screening inspection. Soil boring locations are shown on Figure 2.

The soil borings were drilled using a track-mounted Geoprobe™ Model 6610 direct push unit. 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. Prior to conducting the investigation, EBC requested public utility markouts.

At each boring location, soil samples were collected continuously to depths of up to five (5) feet below grade (refusal) or the water table using a Geoprobe™ macrocore sampler fitted with a disposable plastic liner. Soil samples were characterized by an EBC geologist and inspected for visual and olfactory evidence of contamination (i.e. staining and/or odors). In addition, the soil samples were field screened for the presence of volatile organic compounds using a photoionization detector (PID). 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.

The soils generally consisted of several inches to two feet of fill material, primarily gravel, concrete, asphalt and wood fragments, underlain by brown or gray silty sand to depth of four to six feet below grade. Below the sand was an organic clay layer with some sand and root fragments/marine vegetation. Groundwater was encountered at approximately six feet below grade in each boring. Soils did not exhibit evidence of petroleum staining and/or odors, although slightly elevated PID readings were recorded for the surface samples collected from borings SB-1 and SB7. These readings are attributable to fill materials. A slighted elevated reading was also recorded for the 4 to 6 foot sample from boring SB7, which is attributable to decaying marine vegetation. Soil boring logs are included as Attachment A.

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As part of the field activities, one soil sample per boring, the sample exhibiting the highest degree of impact (visual/olfactory indicators or field equipment response) or the deepest interval above the water table, was submitted to Phoenix Environmental Laboratories of Manchester, CT, a New York-certified laboratory (ID. No. 11301) for analysis. Soil samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260, semi-volatile organic compounds (SVOCs) using USEPA Method 8270, pesticides using USEPA Method 8081, polychlorinated biphenyls (PCBs) using USEPA Method 8082, and metals using USEPA Methods 6010 and 7471. These methods are consistent with those required by the NYC Office of Environmental Remediation (OER) for the evaluation of E-Designated properties.

Groundwater Sampling

Following the completion of five soil borings SB4, SB5, SB6, SB8 and SB9, the borings were extended below the water table to facilitate the collection of groundwater samples (GW1 through GW-5). Groundwater sample locations are shown on Figure 2. Groundwater samples were collected using the Geoprobe™ equipped with a four-foot long mill slot sampler. The sampler was first 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 was then inserted through the probe rods into the water bearing zone with the surface end of the tubing connected a peristaltic pump. Prior to sampling, the tubing was purged to reduce sample turbidity and ensure the collection of a representative sample. Once purging was completed, the flow rate of the pump was reduced and the groundwater samples were collected directly into pre-cleaned, pre-preserved laboratory-supplied glassware, and placed in a cooler packed with ice for transport to the laboratory. The well at boring SB-3 did not yield enough water for the collection of a sample. The groundwater samples were analyzed for VOCs by USEPA Method 8260.

Laboratory Analytical Results

Soil analytical results were compared to the NYSDEC's Division of Environmental Remediation 6 NYCRR Part 375 Soil Cleanup Objective tables (Table 375-8.8[a]: Unrestricted Use Soil Cleanup Objectives [UUSCOs]) (Tables 1 through 4) to determine if additional investigation and/or remediation is warranted.

The soil analytical results revealed that the VOC acetone was detected in three of the 10 soil samples (SB7, SB8 and SB9) at concentrations between 66 and 120 micrograms per kilogram [ug/kg], which are above the UUSCO of 50 ug/kg, but well below the Restricted Residential Use Soil Cleanup Objective (RRUSCO) of 100,000 ug/kg. Acetone was also detected in five additional samples, but at concentrations (maximum 33 ug/kg) below the UUSCO. It should be noted that acetone is a common laboratory contaminant. The VOC benzene, was also detected in the sample from boring SB7 at a concentration of 86 ug/kg, which slightly exceeds its UUSCO of 60 ug/kg. Benzene was also detected in five additional samples, but at concentrations (maximum 4.7 ug/kg) below the UUSCO. Seven additional VOCs (carbon disulfide, methyl ethyl ketone, naphthalene, p-isopropyltoluene, tetrachloroethene [PCE], tetrahydrofuran, and toluene) were also detected in one or more of the ten soil samples, but at concentrations below their respective UUSCOs. No additional VOCs were detected in samples SB1 through SB6, nor were any VOCs detected in sample SB7 at concentrations above their respective laboratory method detection limits (MDLs).

The SVOCs indeno[1,2,3-cd]pyrene was detected in samples collected from four of the ten borings at concentrations (540 ug/kg to 1,100 ug/kg) exceeding both the UUSCO and RRUSCO of 500 ug/kg.

indeno[1,2,3-cd]pyrene was also detected in the six remaining soil samples, but at concentrations below the UUSCO. Benzo[a]anthracene, benzo[a]pyrene, and benzo[b]fluoroanthene were also detected in one to three samples at concentrations (1,000 ug/kg to 1,500 ug/kg) equal to or exceeding both their UUSCOs and RRUSCOs of 1,000 ug/kg, each. In addition, two other SVOCs (benzo[k]fluoroanthene and chrysene) were detected in one or more soil samples at concentrations exceeding their respective UUSCOs, but below their RRUSCOs. Twelve additional SVOCs were also detected in one or more of the soil samples, but at concentrations below their respective UUSCOs.

Four pesticides (4,4-DDD, 4,4-DDE, 4,4-DDT and dieldrin) were detected in one or more of the soil samples collected from borings SB3, SB4, SB6 and SB10, at concentrations exceeding their respective UUSCOs, but below the RRUSCOs. 4,4,4-DDT was also detected in sample SB5, a-Chlordane was detected in samples SB3 and SB5, and g-Chlordane was detected in samples SB3 and SB5, but at concentrations below their respective USUCOs. No pesticides were detected in the samples from borings SB1, SB2, Sb7, SB8 or SB9, at concentrations above their respective laboratory method detection limits (MDLs).

The PCB Aroclor-1254 was detected in the sample from boring SB10 at a concentration (100 ug/kg) slightly exceeding its UUSCO of 100ug/kg, but below the RRUSCO of 1,000 ug/kg. No PCBs were detected in the nine remaining samples at concentrations exceeding their respective laboratory MDLs.

Five metals (arsenic, barium, cadmium, copper and lead) were detected in one or all of the soil samples collected from borings SB1, SB4 and SB-6) at concentrations exceeding both their UUSCOs and RRUSCOs. Copper and lead, plus four other metals (mercury, nickel, silver and zinc) were also detected in one or more of the ten soil samples at concentrations exceeding their respective UUSCOs, but below their RRUSCOs. Each of these metals, except for lead, as well as 12 additional metals were detected in one or more samples, but at concentrations below their respective UUSCOs.

Groundwater analytical results were compared to the NYSDEC's Class GA Groundwater Standards specified in the NYSDEC's Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (Table 5).

Groundwater analytical results indicate that six VOCs (acetone, benzene, carbon disulfide ethyl benzene, methyl-tert butyl ether (MTBE) and toluene) were detected in one or more of the five groundwater samples, but at concentrations below their respective NYSDEC Class GA Groundwater Standards.

Laboratory analytical results are summarized on Tables 1 through 5, and the laboratory reports are provided as Attachment B.

Conclusions and Recommendations

Soil borings drilled at the site indicate that limited quantities of fill material are present in shallow soils, ranging from several inches to two feet across the site, including southern borings that were historically paved with ground asphalt/gravel. Soil analytical results indicate the presence of several VOCs at low concentrations, with only benzene (one sample) and acetone, a common laboratory contaminant detected above their respective UUSCOs.

One or more of the SVOCs (indeno[1,2,3-cd]pyrene, benzo[a]anthracene, benzo[a]pyrene, and benzo[b]fluoroanthene) and metals (arsenic, barium, cadmium, copper and lead) were detected at concentrations exceeding their respective UUSCOs and RRUSCOs in four (SVOCs) and three (metals)

soil samples collected across the site. These compounds, as well as two additional SVOCs and four additional metals were also detected in one or more of the soil samples at concentrations exceeding their respective UUSCOs. Four pesticides and one PCB compound were also identified in one or more samples at concentrations exceeding their respective UUSCOs.

While, the detected SVOCs are consistent with common fuel (diesel fuel, fuel oil, etc.) components, their concentrations are not significant enough to indicate a petroleum release. However, their sporadic occurrence combined with the metals and other compounds is consistent with typical urban fill materials. It should also me noted that the majority of the regulatory exceedances identified in the soil samples were originated from borings SB1, SB4 and SB6. Boring SB1 represents the northwestern corner of the site in the vicinity of the former building, with borings SB4 and SB6 located at the northeastern portions near the soil piles/mounds and nearest to Summerville Basin and historic wetland areas. The presence of impacted soil/fill materials is unlikely to warrant additional investigation and/or remediation. However, should redevelopment or other excavation activities be conducted that disturb site soils/fill material, then the excavated materials should be handled and disposed of offsite in accordance with applicable environmental regulations.

Groundwater analytical results revealed the presence of several VOCs, consistent with gasoline constituents, but at concentrations below applicable regulatory criteria. Although groundwater samples were not analyzed for other parameters, there does not appear to be any significant impacts attributable to onsite fill materials or the offsite migration of contaminants. Further, there are no apparent vapor intrusion concerns that would affect future development activities. Although, soil vapor sampling would likely be required by the NYCOER as part of any proposed redevelopment project to satisfy the requirements of the E-Designation program.

Very truly yours,
Environmental Business Consultants

Keith W. Butler
Senior Project Manager

FIGURES

FIGURE 1 – SITE LOCATION MAP

EBC
Phone 631.504.6000
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Environmental Business Consultants

SITE NAME: Undeveloped Property
STREET ADDRESS: Beach Channel Drive and Beach 62nd Street
MUNICIPALITY, STATE, ZIP: Arverne, NY 11692

Source: USGS

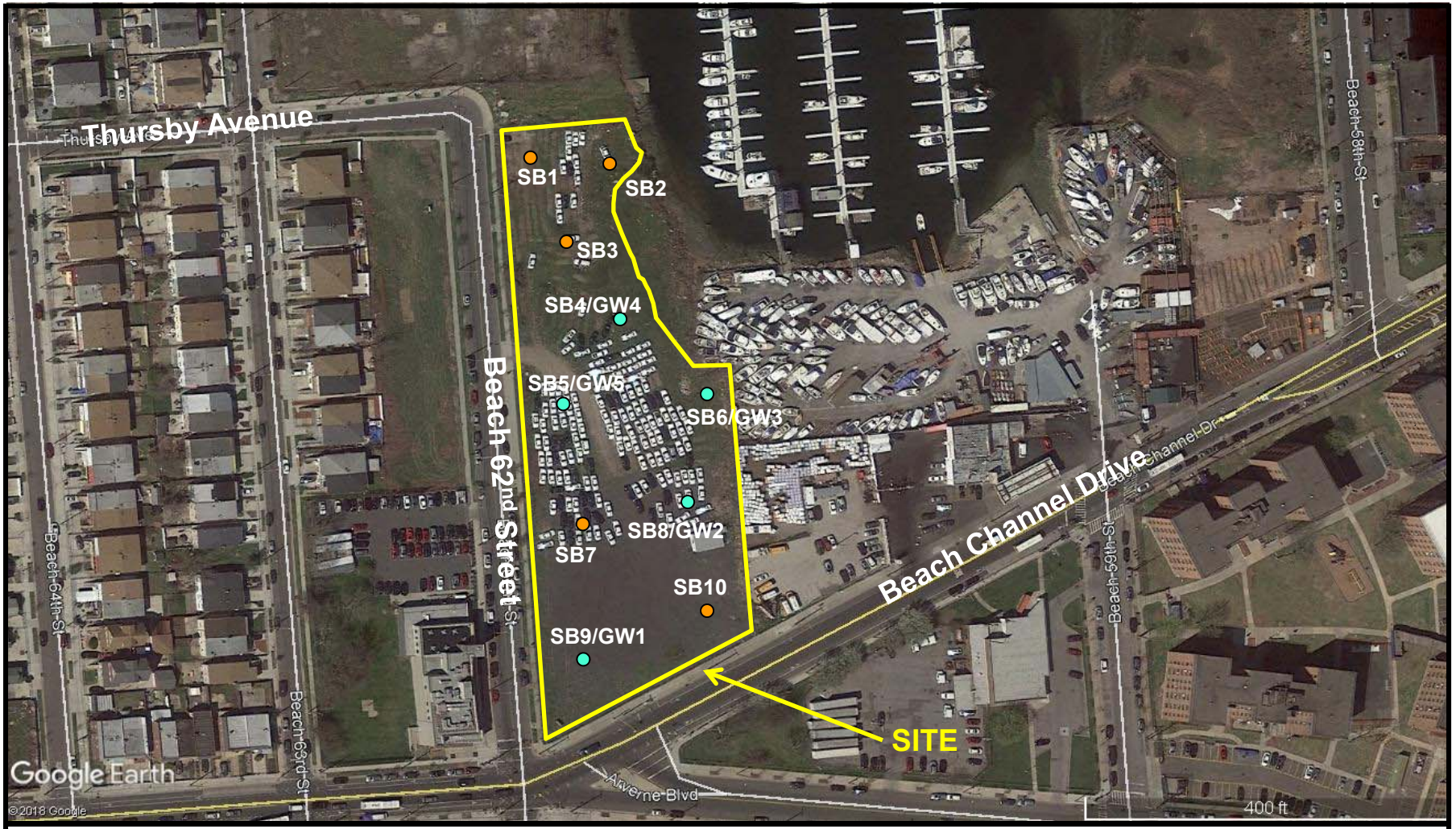

FIGURE 2 - SOIL BORING AND GROUNDWATER SAMPLE LOCATION MAP

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SITE NAME: Commercial Property
STREET ADDRESS: 542 Atlantic Avenue
MUNICIPALITY, STATE, ZIP: Brooklyn, NY 11217

Source: Google Earth – April 2016

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TABLES

TABLE 1
Beach 62nd Street,
Queens, 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		SB2		SB3		SB4		SB5		SB6		SB7		SB8		SB9		SB10	
			6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			< 23	23	< 23	23	< 23	23	< 22	22	< 25	25	< 25	25	< 22	22	< 6.3	6.3	< 25	25	< 24	24
1,1,1-Trichloroethane	680	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,1,2,2-Tetrachloroethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,1,2-Trichloroethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,1-Dichloroethane	270	26,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,1-Dichloroethene	330	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,1-Dichloropropene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,2,3-Trichlorobenzene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2,3-Trichloropropane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2,4-Trichlorobenzene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2,4-Trimethylbenzene	3,600	52,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2-Dibromo-3-chloropropane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2-Dibromomethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,2-Dichlorobenzene	1,100	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,2-Dichloroethane	20	3,100	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,2-Dichloropropane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,3,5-Trimethylbenzene	8,400	52,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,3-Dichlorobenzene	2,400	4,900	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
1,3-Dichloropropane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,4-Dichlorobenzene	1,800	13,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
2,2-Dichloropropane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
2-Chlorotoluene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
2-Hexanone (Methyl Butyl Ketone)			< 29	29	< 29	29	< 28	28	< 28	28	< 31	31	< 32	32	< 27	27	< 32	32	< 31	31	< 30	30
2-Isopropyltoluene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
4-Chlorotoluene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
4-Methyl-2-Pentanone			< 29	29	< 29	29	< 28	28	< 28	28	< 31	31	< 32	32	< 27	27	< 32	32	< 31	31	< 30	30
Acetone	50	100,000	**10**	29	**27**	29	**14**	28	**33**	28	< 31	31	**11**	32	**120**	27	**99**	32	**66**	31	< 30	30
Acrolein			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Acrylonitrile			< 23	23	< 23	23	< 23	23	< 22	22	< 25	25	< 25	25	< 22	22	< 13	13	< 25	25	< 24	24
Benzene	60	4,800	< 5.9	5.9	**0.73**	5.8	< 5.7	5.7	**1.1**	5.5	**0.72**	6.2	< 6.3	6.3	**86**	310	**4.7**	6.3	< 6.2	6.2	**2.8**	6.0
Bromobenzene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
Bromochloromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Bromodichloromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Bromoform			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Bromomethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Carbon Disulfide			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	**4.1**	5.5	**4.9**	6.3	< 6.2	6.2	< 6.0	6.0
Carbon tetrachloride	760	2,400	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Chlorobenzene	1,100	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Chloroethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Chloroform	370	49,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Chloromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
cis-1,2-Dichloroethene	250	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
cis-1,3-Dichloropropene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Dibromochloromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Dibromomethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Dichlorodifluoromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Ethylbenzene	1,000	41,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Hexachlorobutadiene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
Isopropylbenzene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
m&p-Xylenes	260	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 35	35	< 35	35	< 34	34	**6.1**	33	< 37	37	< 38	38	**22**	33	**21**	38	**11**	37	< 36	36
Methyl t-butyl ether (MTBE)	930	100,000	< 12	12	< 12	12	< 11	11	< 11	11	< 12	12	< 13	13	< 11	11	< 13	13	< 12	12	< 12	12
Methylene chloride	50	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Naphthalene	12,000	100,000	< 5.9	5.9	< 5.8	5.8	**1.7**	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
n-Butylbenzene	12,000	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
n-Propylbenzene	3,900	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
o-Xylene	260	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
p-Isopropyltoluene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	**640**	310	< 6.3	6.3	< 6.2	6.2	< 350	350
sec-Butylbenzene	11,000	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
Styrene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Tert-butyl alcohol			< 120	120	< 120	120	< 110	110	< 110	110	< 120	120	< 130	130	< 110	110	< 130	130	< 120	120	< 120	120
tert-Butylbenzene	5,900	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 310	310	< 6.3	6.3	< 6.2	6.2	< 350	350
Tetrachloroethene	1,300	19,000	**1.4**	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Tetrahydrofuran (THF)			**6.4**	12	**7**	12	**5.9**	11	**5.1**	11	**3.7**	12	**4.8**	13	**8.1**	11	**6.4**	13	**7.1**	12	**6.1**	12
Toluene	700	100,000	< 5.9	5.9	**0.6**	5.8	< 5.7	5.7	**0.59**	5.5	< 6.2	6.2	< 6.3	6.3	**39**	310	**1.6**	6.3	< 6.2	6.2	**0.99**	6.0
trans-1,2-Dichloroethene	190	100,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
trans-1,3-Dichloropropene			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
trabs-1,4-dichloro-2-butene			< 12	12	< 12	12	< 11	11	< 11	11	< 12	12	< 13	13	< 620	620	< 13	13	< 12	12	< 700	700
Trichloroethene	470	21,000	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Trichlorofluoromethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Trichlorotrifluoroethane			< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
Vinyl Chloride	20	900	< 5.9	5.9	< 5.8	5.8	< 5.7	5.7	< 5.5	5.5	< 6.2	6.2	< 6.3	6.3	< 5.5	5.5	< 6.3	6.3	< 6.2	6.2	< 6.0	6.0
1,4-dioxane			< 88	88	< 86	86	< 85	85	< 83	83	< 94	94	< 95	95	< 82	82	< 95	95	< 92	92	< 89	89
Total BTEX Concentration			**0**		**1.33**		**0**		**1.69**		**0.72**		**0**		**125**		**6.3**		**0**		**3.79**	
Total VOCs Concentration			**17.8**		**35.33**		**21.6**		**45.89**		**4.42**		**15.8**		**919.2**		**137.6**		**84.1**		**9.89**	

Notes:

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

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
Beach 62nd Street,
Queens, 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		SB2		SB3		SB4		SB5		SB6		SB7		SB8		SB9		SB10	
			6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
1,2,4-Trichlorobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
1,2-Dichlorobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
1,2-Diphenylhydrazine			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
1,3-Dichlorobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
1,4-Dichlorobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2,4,5-Trichlorophenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
2,4-Dimethylphenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2,4-Dinitrophenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
2-Chloronaphthalene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2-Chlorophenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2-Methylnaphthalene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2-Nitroaniline			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
2-Nitrophenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
3-Nitroaniline			< 380	380	< 360	360	< 370	370	< 390	390	< 370	370	< 390	390	< 370	370	< 360	360	< 390	390	< 360	360
4,6-Dinitro-2-methylphenol			< 230	230	< 220	220	< 220	220	< 230	230	< 220	220	< 230	230	< 220	220	< 220	220	< 240	240	< 220	220
4-Bromophenyl phenyl ether			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
4-Chloro-3-methylphenol			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
4-Chloroaniline			< 300	300	< 290	290	< 290	290	< 310	310	< 300	300	< 310	310	< 300	300	< 290	290	< 320	320	< 290	290
4-Chlorophenyl phenyl ether			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
4-Nitroaniline			< 380	380	< 360	360	< 370	370	< 390	390	< 370	370	< 390	390	< 370	370	< 360	360	< 390	390	< 360	360
4-Nitrophenol			< 380	380	< 360	360	< 370	370	< 390	390	< 370	370	< 390	390	< 370	370	< 360	360	< 390	390	< 360	360
Acenaphthene	20,000	100,000	< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	**170**	270	**180**	260	< 250	250	< 280	280	< 250	250
Acenaphthylene	100,000	100,000	**310**	270	< 250	250	**150**	260	**170**	270	< 260	260	**170**	270	**120**	260	< 250	250	< 280	280	< 250	250
Acetophenone			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Aniline			< 300	300	< 290	290	< 290	290	< 310	310	< 300	300	< 310	310	< 300	300	< 290	290	< 320	320	< 290	290
Anthracene	100,000	100,000	**340**	270	< 250	250	**370**	260	**220**	270	< 260	260	**560**	270	**570**	260	**140**	250	< 280	280	**160**	250
Benz(a)anthracene	1,000	1,000	**1,000**	270	**150**	250	**690**	260	**590**	270	**150**	260	**1,500**	270	**1,300**	260	**380**	250	**170**	280	**420**	250
Benzidine			< 380	380	< 360	360	< 370	370	< 390	390	< 370	370	< 390	390	< 370	370	< 360	360	< 390	390	< 360	360
Benzo(a)pyrene	1,000	1,000	**1,200**	190	**220**	180	**540**	180	**650**	190	**190**	190	**1,200**	200	**960**	190	**390**	180	**170**	200	**410**	180
Benzo(b)fluoranthene	1,000	1,000	**1,100**	270	**180**	250	**510**	260	**610**	270	**200**	260	**1,000**	270	**890**	260	**340**	250	**150**	280	**400**	250
Benzo(ghi)perylene	100,000	100,000	**1,100**	270	**230**	250	**340**	260	**530**	270	**190**	260	**710**	270	**570**	260	**280**	250	**140**	280	**300**	250
Benzo(k)fluoranthene	800	3,900	**920**	270	**200**	250	**510**	260	**580**	270	**150**	260	**790**	270	**780**	260	**340**	250	**140**	280	**360**	250
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1900	1,900	< 2000	2,000	< 1900	1,900	< 1800	1,800	< 2000	2,000	< 1800	1,800
Benzyl butyl phthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	**1,900**	250	< 280	280	< 250	250
Bis(2-chloroethoxy)methane			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
Bis(2-chloroisopropyl)ether			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Bis(2-ethylhexyl)phthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	**120**	270	< 260	260	< 250	250	< 280	280	< 250	250
Carbazole			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	**160**	190	< 180	180	< 200	200	< 180	180
Chrysene	1,000	3,900	**1,100**	270	**150**	250	**670**	260	**650**	270	**180**	260	**1,700**	270	**1,400**	260	**370**	250	**160**	280	**420**	250
Dibenz(a,h)anthracene	330	330	**240**	190	< 180	180	**130**	180	**140**	190	< 190	190	**230**	200	**180**	190	< 180	180	< 200	200	**160**	180
Dibenzofuran	7,000	59,000	< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Diethyl phthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Dimethylphthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Di-n-butylphthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Di-n-octylphthalate			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Fluoranthene	100,000	100,000	**1,600**	270	**220**	250	**1,600**	260	**1,100**	270	**240**	260	**2,300**	270	**2,400**	260	**770**	250	**300**	280	**1,000**	250
Fluorene	30,000	100,000	< 270	270	< 250	250	**210**	260	< 270	270	< 260	260	**190**	270	**370**	260	< 250	250	< 280	280	< 250	250
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
Hexachlorobutadiene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Hexachlorocyclopentadiene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	**1,100**	270	**240**	250	**390**	260	**570**	270	**190**	260	**700**	270	**540**	260	**280**	250	**130**	280	**340**	250
Isophorone			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
Naphthalene	12,000	100,000	< 270	270	< 250	250	< 260	260	**140**	270	< 260	260	< 270	270	< 260	260	< 250	250	**120**	280	< 250	250
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
N-Nitrosodimethylamine			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 190	190	< 190	190	< 200	200	< 190	190	< 180	180	< 200	200	< 180	180
N-Nitrosodiphenylamine			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Pentachloronitrobenzene			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Pentachlorophenol	800	6,700	< 230	230	< 220	220	< 220	220	< 230	230	< 220	220	< 230	230	< 220	220	< 220	220	< 240	240	< 220	220
Phenanthrene	100,000	100,000	**940**	270	< 250	250	**1,400**	260	**900**	270	**120**	260	**2,400**	270	**2,600**	260	**450**	250	**140**	280	**700**	250
Phenol	330	100,000	< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250
Pyrene	100,000	100,000	**1,600**	270	**220**	250	**1,200**	260	**1,000**	270	**220**	260	**2,700**	270	**2,500**	260	**660**	250	**280**	280	**860**	250
Pyridine			< 270	270	< 250	250	< 260	260	< 270	270	< 260	260	< 270	270	< 260	260	< 250	250	< 280	280	< 250	250

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
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
Beach 62nd Street,
Queens, New York
Soil Analytical Results
Pesticides PCBs

	COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	SB1		SB2		SB3		SB4		SB5		SB6		SB7		SB8		SB9		SB10	
				6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg		6' 2/23/2018 µg/Kg	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	13,000	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	**130**	23	< 2.2	2.2	**27**	2.4	< 2.3	2.3	< 2.2	2.2	< 2.4	2.4	**7.1**	3.3
	4,4' -DDE	3.3	8,900	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	**49**	2.3	< 2.2	2.2	**7**	3.3	< 2.3	2.3	< 2.2	2.2	< 2.4	2.4	< 2.2	2.2
	4,4' -DDT	3.3	7,900	< 2.3	2.3	< 2.2	2.2	**9.5**	2.2	< 2.3	2.3	**2.8**	2.2	**8.9**	3.3	< 2.3	2.3	< 2.2	2.2	< 2.4	2.4	**4.5**	3.3
	a-BHC	20	480	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	a-Chlordane	94	4,200	< 3.8	3.8	< 3.6	3.6	**9.3**	3.7	< 3.8	3.8	**5.2**	3.7	< 3.9	3.9	< 3.8	3.8	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7
	Aldrin	5	97	< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 3.9	3.9	< 3.8	3.8	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7
	b-BHC	36	360	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Chlordane	94	4,200	< 38	38	< 36	36	< 37	37	< 38	38	< 37	37	< 39	39	< 38	38	< 36	36	< 40	40	< 37	37
	d-BHC	40	100,000	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Dieldrin	5	200	< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	**5.4**	3.9	< 3.8	3.8	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7
	Endosulfan I	2,400	24,000	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Endosulfan II	2,400	24,000	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Endosulfan sulfate	2,400	24,000	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Endrin	14	11,000	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Endrin aldehyde			< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Endrin ketone			< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	g-BHC			< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.6	1.6	< 1.5	1.5
	g-Chlordane			< 3.8	3.8	< 3.6	3.6	**5.3**	3.7	< 3.8	3.8	**3.8**	3.0	< 3.9	3.9	< 3.8	3.8	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7
	Heptachlor	42	2,100	< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Heptachlor epoxide			< 7.6	7.6	< 7.2	7.2	< 7.4	7.4	< 7.7	7.7	< 7.5	7.5	< 7.8	7.8	< 7.6	7.6	< 7.3	7.3	< 7.9	7.9	< 7.3	7.3
	Methoxychlor			< 38	38	< 36	36	< 37	37	< 38	38	< 37	37	< 39	39	< 38	38	< 36	36	< 40	40	< 37	37
	Toxaphene			< 150	150	< 140	140	< 150	150	< 150	150	< 150	150	< 160	160	< 150	150	< 150	150	< 160	160	< 150	150
PCBs	PCB-1016	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1221	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1232	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1242	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1248	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1254	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	**110**	73
	PCB-1260	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1262	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73
	PCB-1268	100	1,000	< 76	76	< 72	72	< 74	74	< 77	77	< 75	75	< 78	78	< 76	76	< 73	73	< 79	79	< 73	73

Notes:

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

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
Beach 62nd Street,
Queens, 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		SB2		SB3		SB4		SB5		SB6		SB7		SB8		SB9		SB10	
			6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg		6' 2/23/2018 mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			3,370	35	2,850	38	2,460	36	6,210	35	3,640	34	2,560	36	3,440	37	4,630	35	2,590	41	3,610	39
Antimony			2.7	1.7	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	2.7	1.8	< 1.8	1.8	< 1.7	1.7	< 2.1	2.1	2.7	2.0
Arsenic	13	16	23.8	0.69	2.53	0.77	1.84	0.71	30.2	0.70	4.77	0.68	3.67	0.72	2.44	0.74	2.8	0.70	9.48	0.82	2.83	0.78
Barium	350	350	1,790	6.9	77	0.8	45.1	0.7	233	0.7	82.7	0.7	359	0.7	46.6	0.7	69.4	0.7	104	0.8	49.9	0.8
Beryllium	7.2	14	0.19	0.28	0.17	0.31	< 0.28	0.28	0.37	0.28	0.17	0.27	0.15	0.29	0.18	0.30	0.16	0.28	< 0.33	0.33	0.21	0.31
Cadmium	2.5	2.5	2.95	0.35	< 0.38	0.38	< 0.36	0.36	0.87	0.35	< 0.34	0.34	1.25	0.36	< 0.37	0.37	< 0.35	0.35	1.75	0.41	< 0.39	0.39
Calcium			19,900	35	6,830	3.8	3,570	3.6	24,600	35	5,790	3.4	5,460	3.6	10,600	3.7	11,500	35	1,840	4.1	11,300	3.9
Chromium	30	180	28.2	0.35	9.24	0.38	9.05	0.36	23.3	0.35	9.81	0.34	15.1	0.36	8.85	0.37	9.09	0.35	13.5	0.41	13.6	0.39
Cobalt			11.3	0.35	2.23	0.38	2.18	0.36	6.27	0.35	4.55	0.34	2.6	0.36	2.65	0.37	4.1	0.35	5.87	0.41	3.22	0.39
Copper	50	270	246	3.5	13.4	0.38	21	0.36	384	3.5	29.7	0.34	60.7	0.36	17.6	0.37	22.6	0.35	53.1	0.41	27.7	0.39
Iron			113,000	350	6,180	3.8	6,330	3.6	28,500	35	10,900	34	12,000	36	7,340	3.7	10,000	35	84,600	41	11,100	39
Lead	63	400	1,590	69	68.7	0.8	80.7	0.7	220	7.0	86	0.7	657	7.2	79.3	0.7	89.5	0.7	281	8.2	291	7.8
Magnesium			5,920	35	2,190	3.8	2,220	3.6	11,700	35	2,740	3.4	2,810	3.6	4,300	3.7	2,160	3.5	566	4.1	5,860	39
Manganese	1,600	2,000	872	3.5	64.1	0.38	72.5	0.36	268	3.5	86.7	0.34	124	0.36	100	0.37	133	0.35	316	4.1	127	0.39
Mercury	0.18	0.81	0.19	0.14	0.09	0.13	0.23	0.15	0.45	0.14	< 0.14	0.14	0.26	0.14	0.09	0.14	< 0.14	0.14	0.17	0.15	< 0.13	0.13
Nickel	30	140	34.8	0.35	5.42	0.38	6.22	0.36	15.3	0.35	6.89	0.34	11.7	0.36	6.49	0.37	7.26	0.35	11.1	0.41	10.1	0.39
Potassium			666	7	654	8	454	7	843	7	627	7	441	7	466	7	521	7	370	8	602	8
Selenium	3.9	36	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.6	1.6	< 1.6	1.6
Silver	2	36	0.91	0.35	< 0.38	0.38	< 0.36	0.36	4.04	0.35	< 0.34	0.34	0.58	0.36	< 0.37	0.37	< 0.35	0.35	< 0.41	0.41	< 0.39	0.39
Sodium			883	7	135	8	88	7	282	7	143	7	143	7	150	7	402	7	128	8	136	8
Thallium			< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.6	1.6	< 1.6	1.6
Vanadium			27.3	0.35	12	0.38	13	0.36	26.9	0.35	34.3	0.34	17.2	0.36	16.2	0.37	15.5	0.35	13.7	0.41	22.3	0.39
Zinc	109	2,200	1,130	6.9	79.1	0.8	74.3	0.7	228	7.0	73.4	0.7	376	7.2	65.6	0.7	78.2	0.7	317	8.2	92	0.8

Notes:

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

RL- Reporting Limit

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

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

TABLE 5
Beach 62nd Street,
Queens, New York
Ground Water Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	GW1		GW2		GW3		GW4		GW5	
	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L	
		Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
1,1,1,2-Tetrachlorothane	5	< 1.0	1.0	< 1.0	1.0	< 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	< 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	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 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	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	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	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 1.0	1.0	< 1.0	1.0	< 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	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2,2-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 2.5	2.5	< 2.5	2.5	< 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	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 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	< 2.5	2.5	< 2.5	2.5
Acetone		**6.9**	5.0	**5**	5.0	< 5.0	5.0	**3.3**	5.0	**3.5**	5.0
Acrolein		< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0
Benzene	1	**0.84**	0.70	**0.91**	0.70	< 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	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0	**0.3**	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 1.0	1.0	< 1.0	1.0	< 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	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	< 5.0	5.0	< 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	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.27**	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 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	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 1.0	1.0	< 1.0	1.0	**2**	1.0	**0.32**	1.0	< 1.0	1.0
Methylene chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	< 1.0	1.0	< 1.0	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	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**0.33**	1.0	**0.46**	1.0	< 1.0	1.0	< 1.0	1.0	**0.32**	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	< 5.0	5.0	< 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	< 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	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 1.0	1.0	< 1.0	1.0	< 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	< 1.0	1.0	< 1.0	1.0

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

ATTACHMENT A
Soil Boring Logs

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB1 Boring Log

Location: Performed at 20' from Beach 62nd street and 240' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 4	23		12.0	11" fill material with brown fine sand 8" tan grey fine to medium sand 4" dark medium to fine sand with some gravel
	to 8	18		0.0	9" brown fine sand with some fill material 7" wet tan grey fine to medium sand 2" dark grey clay with some grass root **Retained soii sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB2 Boring Log

Location: Performed at 80' from Beach 62nd street and 200' from Beach Channel Drive		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY	Date / DTW	Ground Elevation
		Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe		Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018		None
Completion Depth: 8 feet	Geologist Honpong Lau		

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 4	13		0.0	5" fill material with fine to medium sand 8" dark fine sand with some fill material
	to 8	4		0.0	4" wet tan fine sand with some clay **Retained soil sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB3 Boring Log

Location: Performed at 55' from Beach 62nd street and 180' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 feet	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to	24		0.0	10" fill material with fine to medium sand 7" tan fine sand 6" fill material with tan fine sand and brick
	4				
	to	4		0.0	4" tan fine to medium sand and some clay **Retained soil sample at (3-6ft)*
	8				

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

SB4 Boring Log

Location: Performed at 80' from Beach 62nd st and 140' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 4	22		0.0	8" fill material with fine sand 8" tan fine sand 6" brown fine sand
	4 to 8	16		17.0	8" fill material with black fine sand 4" brown silty sand with some fill material 4" black fine sand with grass root **Retained soil sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB5 Boring Log

Location: Performed at 50' from Beach 62nd st and 150' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 4	14		0.0	14" fill material with fine sand
	to 8	3		0.0	3" wet fill material with some dark grey clay **Retained soil sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB6 Boring Log

Location: Performed at 140' from Beach 62nd street and 85' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 4	24		0.0	10" fill material with brown fine sand 14" light tan fine sand with some rock pebbles
	4 to 8	17		0.0	12" light tan fine sand with some rock pebbles 5" wet fine sand with clay **Retained soii sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB7 Boring Log

Location: Performed at 45' from Beach 62nd street and 150' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 4	24		12.0	24" blackish grey fine sand with wood chip and fill material
	to 8	3		0.0	3" wet blackish clay **Retained soii sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB8 Boring Log

Location: Performed at 85' from Beach 62nd street and 65' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 4	20		0.0	2" fill material with fine sand 18" greyish fine to medium sand with some gravel
	4 to 8	3		0.0	3" wet grey clay with rock **Retained soii sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB9 Boring Log

Location: Performed at 30' from Beach 62nd street and 20' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 4	18		0.0	2" fill material with asphalt 9" brown fine to medium sand 7" wet grey fine to medium sand
	4 to 8	29		0.0	3" wet grey fine to medium sand 5" wet brown gravel sand with rock 5" wet grey fine to medium sand 16" wet grey clay **Retained soii sample at (3-6ft)*

Geologic Boring Log Details

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

SB10 Boring Log

Location: Performed at 90' from Beach 62nd street and 20' from Beach Channel Drive			Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address: Beach 62nd street,Queens,NY		Date / DTW	Ground Elevation
			Groundwater depth	
Drilling Company: C^2 Environmental	Method: Geoprobe			Well Specifications
Date Started: 2/23/2018	Date Completed: 2/23/2018			None
Completion Depth: 8 ft	Geologist Honpong Lau			

B1 (NTS)	DEPTH (ft below grade)	SAMPLES Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to 4	19		0.0	2" fill material with fine sand 8" brown moist fine to medium sand 9" tan grey fine to medium sand
	to 8	3		0.0	3" wet fine sand with clay and rock **Retained soii sample at (3-6ft)*

ATTACHMENT B
Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Monday, March 05, 2018

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

Project ID: BEACH 62ND ST., QUEENS, NY
Sample ID#s: BZ94512 - BZ94521

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

March 05, 2018

SDG I.D.: GBZ94512

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

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94512

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	0.91		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	3370		35	6.9	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	23.8		0.69	0.69	mg/Kg	1	02/27/18	MA	SW6010C
Barium	1790		6.9	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Beryllium	0.19	J	0.28	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	19900		35	32	mg/Kg	10	02/27/18	MA	SW6010C
Cadmium	2.95		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	11.3		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	28.2		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Copper	246		3.5	3.5	mg/kg	10	02/27/18	MA	SW6010C
Iron	113000		350	350	mg/Kg	100	02/27/18	MA	SW6010C
Mercury	0.19		0.14	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	666		7	2.7	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	5920		35	35	mg/Kg	10	02/27/18	MA	SW6010C
Manganese	872		3.5	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Sodium	883		7	3.0	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	34.8		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Lead	1590		69	35	mg/Kg	100	02/27/18	MA	SW6010C
Antimony	2.7		1.7	1.7	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	27.3		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	1130		6.9	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Percent Solid	87				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						03/01/18	JA/V	SW3545A
Soil Extraction for Pesticides	Completed						03/01/18	JA/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 1

Phoenix I.D.: BZ94512

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1221	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1232	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1242	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1248	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1254	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1260	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1262	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
PCB-1268	ND	76	76	ug/Kg	2	03/02/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	60			%	2	03/02/18	AW	40 - 140 %
% TCMX	74			%	2	03/02/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	03/02/18	CW	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	03/02/18	CW	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	03/02/18	CW	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	03/02/18	CW	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	03/02/18	CW	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Chlordane	ND	38	38	ug/Kg	2	03/02/18	CW	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	03/02/18	CW	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	03/02/18	CW	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	03/02/18	CW	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	03/02/18	CW	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	03/02/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	03/02/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	98			%	2	03/02/18	CW	40 - 140 %
% TCMX	89			%	2	03/02/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY

Phoenix I.D.: BZ94512

Client ID: SB 1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		29	5.9	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		29	5.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	10	JS	29	5.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		5.9	2.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		35	5.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		5.9	5.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	1.4	J	5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	6.4	J	12	2.9	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		12	2.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		5.9	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	88				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	103				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	88				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		88	47	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	88				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	88				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		23	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		5.9	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		23	0.59	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		120	23	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	130	ug/Kg	1	02/27/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		270	120	ug/Kg	1	02/27/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dimethylphenol	ND		270	94	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	02/27/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 1

Phoenix I.D.: BZ94512

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitroaniline	ND	270	270	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitrophenol	ND	270	240	ug/Kg	1	02/27/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	1	02/27/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND	190	180	ug/Kg	1	02/27/18	DD	SW8270D	
3-Nitroaniline	ND	380	760	ug/Kg	1	02/27/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	230	76	ug/Kg	1	02/27/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloroaniline	ND	300	180	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitroaniline	ND	380	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitrophenol	ND	380	170	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthene	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthylene	310	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Acetophenone	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Aniline	ND	300	300	ug/Kg	1	02/27/18	DD	SW8270D	
Anthracene	340	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benz(a)anthracene	1000	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Benzidine	ND	380	220	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(a)pyrene	1200	190	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(b)fluoranthene	1100	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(ghi)perylene	1100	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(k)fluoranthene	920	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Benzoic acid	ND	1900	760	ug/Kg	1	02/27/18	DD	SW8270D	
Benzyl butyl phthalate	ND	270	98	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	270	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	190	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Carbazole	ND	190	150	ug/Kg	1	02/27/18	DD	SW8270D	
Chrysene	1100	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenz(a,h)anthracene	240	190	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenzofuran	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Diethyl phthalate	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dimethylphthalate	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-butylphthalate	ND	270	100	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-octylphthalate	ND	270	98	ug/Kg	1	02/27/18	DD	SW8270D	
Fluoranthene	1600	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Fluorene	ND	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobenzene	ND	190	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobutadiene	ND	270	140	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachloroethane	ND	190	110	ug/Kg	1	02/27/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	1100	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Isophorone	ND	190	110	ug/Kg	1	02/27/18	DD	SW8270D	
Naphthalene	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Nitrobenzene	ND	190	130	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 1

Phoenix I.D.: BZ94512

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachlorophenol	ND	230	140	ug/Kg	1	02/27/18	DD	SW8270D	
Phenanthrene	940	270	110	ug/Kg	1	02/27/18	DD	SW8270D	
Phenol	ND	270	120	ug/Kg	1	02/27/18	DD	SW8270D	
Pyrene	1600	270	130	ug/Kg	1	02/27/18	DD	SW8270D	
Pyridine	ND	270	93	ug/Kg	1	02/27/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	93			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	74			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorophenol	60			%	1	02/27/18	DD	30 - 130 %	
% Nitrobenzene-d5	80			%	1	02/27/18	DD	30 - 130 %	
% Phenol-d5	69			%	1	02/27/18	DD	30 - 130 %	
% Terphenyl-d14	69			%	1	02/27/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94513

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	2850		38	7.7	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	2.53		0.77	0.77	mg/Kg	1	02/27/18	MA	SW6010C
Barium	77.0		0.8	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.17	J	0.31	0.15	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	6830		3.8	3.5	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	ND		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	2.23		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	9.24		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Copper	13.4		0.38	0.38	mg/kg	1	02/27/18	MA	SW6010C
Iron	6180		3.8	3.8	mg/Kg	1	02/27/18	MA	SW6010C
Mercury	0.09	J	0.13	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	654		8	3.0	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	2190		3.8	3.8	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	64.1		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	135		8	3.3	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	5.42		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Lead	68.7		0.8	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Antimony	ND		1.9	1.9	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.5	1.3	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.5	1.5	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	12.0		0.38	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	79.1		0.8	0.38	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	92				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 2

Phoenix I.D.: BZ94513

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	72	72	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	46			%	2	03/01/18	AW	40 - 140 %
% TCMX	57			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
a-BHC	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
a-Chlordane	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Aldrin	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
b-BHC	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Chlordane	ND	36	36	ug/Kg	2	02/28/18	CW	SW8081B
d-BHC	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Dieldrin	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan I	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan II	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Endrin	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Endrin aldehyde	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Endrin ketone	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
g-BHC	ND	1.4	1.4	ug/Kg	2	02/28/18	CW	SW8081B
g-Chlordane	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	7.2	ug/Kg	2	02/28/18	CW	SW8081B
Methoxychlor	ND	36	36	ug/Kg	2	02/28/18	CW	SW8081B
Toxaphene	ND	140	140	ug/Kg	2	02/28/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	48			%	2	02/28/18	CW	40 - 140 %
% TCMX	42			%	2	02/28/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 2

Phoenix I.D.: BZ94513

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		29	5.8	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		29	5.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	27	JS	29	5.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	0.73	J	5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		5.8	2.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		35	5.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		5.8	5.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	7.0	J	12	2.9	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	0.60	J	5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		12	2.9	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		5.8	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	84				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	107				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	88				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		86	46	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	84				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	88				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		23	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		5.8	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		23	0.58	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		120	23	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		250	200	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dichlorophenol	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dimethylphenol	ND		250	90	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrophenol	ND		250	250	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		180	140	ug/Kg	1	02/27/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 2

Phoenix I.D.: BZ94513

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitroaniline	ND		250	250	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitrophenol	ND		250	230	ug/Kg	1	02/27/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	1	02/27/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		180	170	ug/Kg	1	02/27/18	DD	SW8270D	
3-Nitroaniline	ND		360	720	ug/Kg	1	02/27/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	72	ug/Kg	1	02/27/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloroaniline	ND		290	170	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitroaniline	ND		360	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitrophenol	ND		360	160	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthylene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Acetophenone	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Aniline	ND		290	290	ug/Kg	1	02/27/18	DD	SW8270D	
Anthracene	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benz(a)anthracene	150	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzidine	ND		360	210	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(a)pyrene	220		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(b)fluoranthene	180	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(ghi)perylene	230	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(k)fluoranthene	200	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzoic acid	ND		1800	720	ug/Kg	1	02/27/18	DD	SW8270D	
Benzyl butyl phthalate	ND		250	93	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		180	98	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Carbazole	ND		180	140	ug/Kg	1	02/27/18	DD	SW8270D	
Chrysene	150	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenzofuran	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Diethyl phthalate	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Dimethylphthalate	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-butylphthalate	ND		250	96	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-octylphthalate	ND		250	93	ug/Kg	1	02/27/18	DD	SW8270D	
Fluoranthene	220	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Fluorene	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobenzene	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobutadiene	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachloroethane	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	240	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Isophorone	ND		180	100	ug/Kg	1	02/27/18	DD	SW8270D	
Naphthalene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Nitrobenzene	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 2

Phoenix I.D.: BZ94513

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND		250	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachloronitrobenzene	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachlorophenol	ND		220	140	ug/Kg	1	02/27/18	DD	SW8270D	
Phenanthrene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Phenol	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Pyrene	220	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Pyridine	ND		250	89	ug/Kg	1	02/27/18	DD	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	60				%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	48				%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorophenol	37				%	1	02/27/18	DD	30 - 130 %	
% Nitrobenzene-d5	50				%	1	02/27/18	DD	30 - 130 %	
% Phenol-d5	44				%	1	02/27/18	DD	30 - 130 %	
% Terphenyl-d14	48				%	1	02/27/18	DD	30 - 130 %	
Field Extraction	Completed						02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.
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Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94514

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	2460	36	7.1	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	1.84	0.71	0.71	mg/Kg	1	02/27/18	MA	SW6010C
Barium	45.1	0.7	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	ND	0.28	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	3570	3.6	3.3	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	ND	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	2.18	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	9.05	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Copper	21.0	0.36	0.36	mg/kg	1	02/27/18	MA	SW6010C
Iron	6330	3.6	3.6	mg/Kg	1	02/27/18	MA	SW6010C
Mercury	0.23	0.15	0.09	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	454	7	2.8	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	2220	3.6	3.6	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	72.5	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	88	7	3.1	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	6.22	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Lead	80.7	0.7	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Antimony	ND	1.8	1.8	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND	1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND	1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	13.0	0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	74.3	0.7	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	89			%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed					02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed					02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed					02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed					02/27/18	I/I	SW7471B

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	74	74	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	71			%	2	03/01/18	AW	40 - 140 %
% TCMX	65			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDT	9.5	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
a-BHC	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
a-Chlordane	9.3	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
b-BHC	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Chlordane	ND	37	37	ug/Kg	2	03/01/18	CW	SW8081B
d-BHC	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Dieldrin	ND	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan I	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan II	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Endrin	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Endrin aldehyde	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Endrin ketone	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	03/01/18	CW	SW8081B
g-Chlordane	5.3	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	7.4	ug/Kg	2	03/01/18	CW	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	03/01/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	03/01/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	76			%	2	03/01/18	CW	40 - 140 %
% TCMX	58			%	2	03/01/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C

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Phoenix I.D.: BZ94514

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		28	5.7	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		28	5.7	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	14	JS	28	5.7	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		5.7	2.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		34	5.7	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		5.7	5.7	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	1.7	J	5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	5.9	J	11	2.8	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		11	2.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		5.7	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	94				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	92				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	102				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		85	45	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	94				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	92				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		23	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		5.7	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		23	0.57	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		110	23	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	130	ug/Kg	1	02/27/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		260	100	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		260	200	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dichlorophenol	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dimethylphenol	ND		260	91	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		180	150	ug/Kg	1	02/27/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chloronaphthalene	ND		260	100	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chlorophenol	ND		260	100	ug/Kg	1	02/27/18	DD	SW8270D	

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2-Methylnaphthalene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		260	170	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitrophenol	ND		260	230	ug/Kg	1	02/27/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	02/27/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		180	170	ug/Kg	1	02/27/18	DD	SW8270D	
3-Nitroaniline	ND		370	740	ug/Kg	1	02/27/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	74	ug/Kg	1	02/27/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloroaniline	ND		290	170	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitroaniline	ND		370	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitrophenol	ND		370	170	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthylene	150	J	260	100	ug/Kg	1	02/27/18	DD	SW8270D	
Acetophenone	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Aniline	ND		290	290	ug/Kg	1	02/27/18	DD	SW8270D	
Anthracene	370		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benz(a)anthracene	690		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzidine	ND		370	220	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(a)pyrene	540		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(b)fluoranthene	510		260	130	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(ghi)perylene	340		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(k)fluoranthene	510		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzoic acid	ND		1800	740	ug/Kg	1	02/27/18	DD	SW8270D	
Benzyl butyl phthalate	ND		260	95	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		180	99	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		260	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Carbazole	ND		180	150	ug/Kg	1	02/27/18	DD	SW8270D	
Chrysene	670		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenz(a,h)anthracene	130	J	180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenzofuran	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Diethyl phthalate	ND		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dimethylphthalate	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-butylphthalate	ND		260	98	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-octylphthalate	ND		260	95	ug/Kg	1	02/27/18	DD	SW8270D	
Fluoranthene	1600		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Fluorene	210	J	260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobenzene	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobutadiene	ND		260	130	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachloroethane	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	390		260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Isophorone	ND		180	100	ug/Kg	1	02/27/18	DD	SW8270D	
Naphthalene	ND		260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Nitrobenzene	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 3

Phoenix I.D.: BZ94514

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	02/27/18	DD	SW8270D	
Phenanthrene	1400	260	110	ug/Kg	1	02/27/18	DD	SW8270D	
Phenol	ND	260	120	ug/Kg	1	02/27/18	DD	SW8270D	
Pyrene	1200	260	130	ug/Kg	1	02/27/18	DD	SW8270D	
Pyridine	ND	260	91	ug/Kg	1	02/27/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	89			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	70			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorophenol	53			%	1	02/27/18	DD	30 - 130 %	
% Nitrobenzene-d5	71			%	1	02/27/18	DD	30 - 130 %	
% Phenol-d5	64			%	1	02/27/18	DD	30 - 130 %	
% Terphenyl-d14	70			%	1	02/27/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94515

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 4

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	4.04	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	6210	35	7.0	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	30.2	0.70	0.70	mg/Kg	1	02/27/18	MA	SW6010C
Barium	233	0.7	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.37	0.28	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	24600	35	32	mg/Kg	10	02/27/18	MA	SW6010C
Cadmium	0.87	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	6.27	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	23.3	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Copper	384	3.5	3.5	mg/kg	10	02/27/18	MA	SW6010C
Iron	28500	35	35	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	0.45	0.14	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	843	7	2.7	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	11700	35	35	mg/Kg	10	02/27/18	MA	SW6010C
Manganese	268	3.5	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Sodium	282	7	3.0	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	15.3	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Lead	220	7.0	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Antimony	ND	1.8	1.8	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND	1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND	1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	26.9	0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	228	7.0	3.5	mg/Kg	10	02/27/18	MA	SW6010C
Percent Solid	85			%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed					02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed					02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed					02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed					02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 4

Phoenix I.D.: BZ94515

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	77	77	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	89			%	2	03/01/18	AW	40 - 140 %
% TCMX	83			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	130	23	23	ug/Kg	20	03/01/18	CW	SW8081B
4,4' -DDE	49	2.3	2.3	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	02/28/18	CW	SW8081B
a-BHC	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
b-BHC	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Chlordane	ND	38	38	ug/Kg	2	02/28/18	CW	SW8081B
d-BHC	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan I	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan II	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan sulfate	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Endrin	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Endrin aldehyde	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Endrin ketone	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	02/28/18	CW	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor epoxide	ND	7.7	7.7	ug/Kg	2	02/28/18	CW	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	02/28/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	02/28/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	77			%	2	02/28/18	CW	40 - 140 %
% TCMX	75			%	2	02/28/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY

Phoenix I.D.: BZ94515

Client ID: SB 4

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		28	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		28	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	33	S	28	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	1.1	J	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		5.5	2.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	6.1	J	33	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		5.5	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	5.1	J	11	2.8	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	0.59	J	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		11	2.8	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	87				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	101				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		83	44	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	87				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		22	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		22	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		110	22	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		190	140	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		270	96	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 4

Phoenix I.D.: BZ94515

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		270	250	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		390	770	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	77	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		310	180	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		390	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		390	170	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	170	J	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		310	310	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	220	J	270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	590		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		390	230	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	650		190	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	610		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	530		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	580		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		1900	770	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	ND		190	150	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	650		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	140	J	190	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	1100		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	ND		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	570		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	140	J	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		190	140	ug/Kg	1	02/28/18	DD	SW8270D	

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 4

Phoenix I.D.: BZ94515

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	190	130	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND	270	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND	230	150	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	900	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND	270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	1000	270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND	270	95	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	90			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	70			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	47			%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	70			%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	61			%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	72			%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94516

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 5

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	3640		34	6.8	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	4.77		0.68	0.68	mg/Kg	1	02/27/18	MA	SW6010C
Barium	82.7		0.7	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.17	J	0.27	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	5790		3.4	3.1	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	ND		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	4.55		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	9.81		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Copper	29.7		0.34	0.34	mg/kg	1	02/27/18	MA	SW6010C
Iron	10900		34	34	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	ND		0.14	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	627		7	2.6	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	2740		3.4	3.4	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	86.7		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	143		7	2.9	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	6.89		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Lead	86.0		0.7	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Antimony	ND		1.7	1.7	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	34.3		0.34	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	73.4		0.7	0.34	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	89				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 5

Phoenix I.D.: BZ94516

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	75	75	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	76			%	2	03/01/18	AW	40 - 140 %
% TCMX	70			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDT	2.8	2.2	2.2	ug/Kg	2	03/01/18	CW	SW8081B
a-BHC	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
a-Chlordane	5.2	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
b-BHC	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Chlordane	ND	37	37	ug/Kg	2	03/01/18	CW	SW8081B
d-BHC	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Dieldrin	ND	3.7	3.7	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan I	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan II	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan sulfate	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Endrin	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Endrin aldehyde	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Endrin ketone	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	03/01/18	CW	SW8081B
g-Chlordane	3.8	3.0	3.0	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor epoxide	ND	7.5	7.5	ug/Kg	2	03/01/18	CW	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	03/01/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	03/01/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	69			%	2	03/01/18	CW	40 - 140 %
% TCMX	67			%	2	03/01/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 5

Phoenix I.D.: BZ94516

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	ND		31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	0.72	J	6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		6.2	2.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		37	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		6.2	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	3.7	J	12	3.1	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		12	3.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	84				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	107				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	89				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		94	50	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	84				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	89				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		25	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		25	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		120	25	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		260	200	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		260	92	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
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Phoenix I.D.: BZ94516

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		260	170	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		260	240	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		370	740	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	74	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		300	170	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		370	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		370	170	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		300	300	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	150	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		370	220	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	190		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	200	J	260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	190	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	150	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		1900	740	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	ND		260	96	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	ND		190	150	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	180	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		260	99	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		260	96	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	240	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	190	J	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		190	100	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		190	130	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
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Phoenix I.D.: BZ94516

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND		260	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND		260	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND		220	140	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	120	J	260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	220	J	260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND		260	91	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	102				%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	80				%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	60				%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	82				%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	71				%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	80				%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed						02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.

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

Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94517

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 6

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	0.58		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	2560		36	7.2	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	3.67		0.72	0.72	mg/Kg	1	02/27/18	MA	SW6010C
Barium	359		0.7	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.15	J	0.29	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	5460		3.6	3.3	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	1.25		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	2.60		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	15.1		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Copper	60.7		0.36	0.36	mg/kg	1	02/27/18	MA	SW6010C
Iron	12000		36	36	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	0.26		0.14	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	441		7	2.8	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	2810		3.6	3.6	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	124		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	143		7	3.1	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	11.7		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Lead	657		7.2	3.6	mg/Kg	10	02/27/18	MA	SW6010C
Antimony	2.7		1.8	1.8	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	17.2		0.36	0.36	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	376		7.2	3.6	mg/Kg	10	02/27/18	MA	SW6010C
Percent Solid	84				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 6

Phoenix I.D.: BZ94517

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	78	78	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	84			%	2	03/01/18	AW	40 - 140 %
% TCMX	74			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	27	2.4	2.4	ug/Kg	2	02/28/18	PS	SW8081B
4,4' -DDE	7.0	3.3	3.3	ug/Kg	2	02/28/18	PS	SW8081B
4,4' -DDT	8.9	3.3	3.3	ug/Kg	2	02/28/18	PS	SW8081B
a-BHC	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
a-Chlordane	ND	3.9	3.9	ug/Kg	2	02/28/18	PS	SW8081B
Aldrin	ND	3.9	3.9	ug/Kg	2	02/28/18	PS	SW8081B
b-BHC	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Chlordane	ND	39	39	ug/Kg	2	02/28/18	PS	SW8081B
d-BHC	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Dieldrin	5.4	3.9	3.9	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan I	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan II	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan sulfate	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Endrin	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Endrin aldehyde	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Endrin ketone	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	02/28/18	PS	SW8081B
g-Chlordane	ND	3.9	3.9	ug/Kg	2	02/28/18	PS	SW8081B
Heptachlor	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Heptachlor epoxide	ND	7.8	7.8	ug/Kg	2	02/28/18	PS	SW8081B
Methoxychlor	ND	39	39	ug/Kg	2	02/28/18	PS	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	02/28/18	PS	SW8081B
QA/QC Surrogates								
% DCBP	71			%	2	02/28/18	PS	40 - 140 %
% TCMX	68			%	2	02/28/18	PS	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 6

Phoenix I.D.: BZ94517

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	11	JS	32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		13	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		6.3	2.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		38	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		13	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		6.3	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	4.8	J	13	3.2	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		13	3.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	81				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	103				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	89				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		95	50	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	81				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	89				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		25	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		25	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		130	25	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		270	210	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		200	140	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		270	97	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		270	270	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		200	150	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		200	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
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Phoenix I.D.: BZ94517

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		270	180	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		270	270	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		270	250	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		270	150	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		200	180	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		390	780	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		230	78	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		310	180	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		390	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		390	180	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	170	J	270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	170	J	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		310	310	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	560		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	1500		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		390	230	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	1200		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	1000		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	710		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	790		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		2000	780	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		200	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	120	J	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	ND		200	160	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	1700		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	230		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		270	100	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	2300		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	190	J	270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		200	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		270	140	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		200	120	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	700		270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		200	110	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	ND		270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		200	140	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
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Phoenix I.D.: BZ94517

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200	130	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND	270	150	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND	230	150	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	2400	270	110	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND	270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	2700	270	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND	270	96	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	87			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	66			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	53			%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	70			%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	63			%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	68			%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.

Pesticide Comment:
Matrix interference was oberved due to the presence of suspected PCBs in the sample.

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
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94518

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 7

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	3440		37	7.4	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	2.44		0.74	0.74	mg/Kg	1	02/27/18	MA	SW6010C
Barium	46.6		0.7	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.18	J	0.30	0.15	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	10600		3.7	3.4	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	ND		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	2.65		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	8.85		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Copper	17.6		0.37	0.37	mg/kg	1	02/27/18	MA	SW6010C
Iron	7340		3.7	3.7	mg/Kg	1	02/27/18	MA	SW6010C
Mercury	0.09	J	0.14	0.09	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	466		7	2.9	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	4300		3.7	3.7	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	100		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	150		7	3.2	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	6.49		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Lead	79.3		0.7	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Antimony	ND		1.8	1.8	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.5	1.3	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.5	1.5	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	16.2		0.37	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	65.6		0.7	0.37	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	88				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 7

Phoenix I.D.: BZ94518

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	76	76	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	83			%	2	03/01/18	AW	40 - 140 %
% TCMX	77			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.3	2.3	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDE	ND	2.3	2.3	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDT	ND	2.3	2.3	ug/Kg	2	02/28/18	CW	SW8081B
a-BHC	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
a-Chlordane	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Aldrin	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
b-BHC	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Chlordane	ND	38	38	ug/Kg	2	02/28/18	CW	SW8081B
d-BHC	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Dieldrin	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan I	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan II	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan sulfate	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Endrin	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Endrin aldehyde	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Endrin ketone	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	02/28/18	CW	SW8081B
g-Chlordane	ND	3.8	3.8	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor epoxide	ND	7.6	7.6	ug/Kg	2	02/28/18	CW	SW8081B
Methoxychlor	ND	38	38	ug/Kg	2	02/28/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	02/28/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	73			%	2	02/28/18	CW	40 - 140 %
% TCMX	73			%	2	02/28/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	310	62	ug/Kg	50	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY

Client ID: SB 7

Phoenix I.D.: BZ94518

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	
2-Hexanone	ND		27	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		27	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	120	S	27	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	86	J	310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
Bromobenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		5.5	2.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	4.1	J	5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	22	J	33	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		11	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		5.5	5.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		310	62	ug/Kg	50	03/01/18	JLI	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	640		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
Styrene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	8.1	J	11	2.7	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	39	J	310	31	ug/Kg	50	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		620	150	ug/Kg	50	03/01/18	JLI	SW8260C	
Trichloroethene	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		5.5	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	50	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	93				%	50	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	94				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	86				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		82	44	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	105				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	72				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	86				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		22	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		5.5	1.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		22	0.55	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		110	22	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		260	200	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		190	130	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		260	92	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		260	260	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		190	150	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		260	170	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		260	260	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		260	240	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		260	150	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		190	180	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		370	740	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	74	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		300	170	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		370	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		370	170	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	180	J	260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	120	J	260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		300	300	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	570		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	1300		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		370	220	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	960		190	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	890		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	570		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	780		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		1900	740	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	ND		260	96	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		190	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		260	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	160	J	190	150	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	1400		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	180	J	190	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		260	99	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		260	96	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	2400		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	370		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		190	110	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	540		260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		190	100	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	ND		260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		190	130	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
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Phoenix I.D.: BZ94518

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	260	100	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	190	120	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND	260	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	2600	260	110	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND	260	120	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	2500	260	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND	260	91	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	82			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	66			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	53			%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	74			%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	63			%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	66			%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94519

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 8

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	4630		35	7.0	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	2.80		0.70	0.70	mg/Kg	1	02/27/18	MA	SW6010C
Barium	69.4		0.7	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.16	J	0.28	0.14	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	11500		35	32	mg/Kg	10	02/27/18	MA	SW6010C
Cadmium	ND		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	4.10		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	9.09		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Copper	22.6		0.35	0.35	mg/kg	1	02/27/18	MA	SW6010C
Iron	10000		35	35	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	ND		0.14	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	521		7	2.7	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	2160		3.5	3.5	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	133		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	402		7	3.0	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	7.26		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Lead	89.5		0.7	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Antimony	ND		1.7	1.7	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.4	1.2	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.4	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	15.5		0.35	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	78.2		0.7	0.35	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	91				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 8

Phoenix I.D.: BZ94519

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	73	73	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	71			%	2	03/01/18	AW	40 - 140 %
% TCMX	67			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
4,4' -DDT	ND	2.2	2.2	ug/Kg	2	02/28/18	CW	SW8081B
a-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
a-Chlordane	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Aldrin	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
b-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Chlordane	ND	36	36	ug/Kg	2	02/28/18	CW	SW8081B
d-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Dieldrin	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan I	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan II	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Endrin	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Endrin aldehyde	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Endrin ketone	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	02/28/18	CW	SW8081B
g-Chlordane	ND	3.6	3.6	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	7.3	ug/Kg	2	02/28/18	CW	SW8081B
Methoxychlor	ND	36	36	ug/Kg	2	02/28/18	CW	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	02/28/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	59			%	2	02/28/18	CW	40 - 140 %
% TCMX	58			%	2	02/28/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY

Client ID: SB 8

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	99	S	32	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		13	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	4.7	J	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		6.3	2.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	4.9	J	6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	21	J	38	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		13	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		6.3	6.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	6.4	J	13	3.2	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	1.6	J	6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		13	3.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		6.3	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	81				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	103				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	87				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		95	51	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	81				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	87				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		25	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		6.3	1.3	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		25	0.63	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		130	25	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		250	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		250	200	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		180	110	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		180	130	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		250	89	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		250	250	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		180	140	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		180	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		250	250	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		250	230	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		180	170	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		360	720	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	72	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		290	170	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		360	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		360	160	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		290	290	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	140	J	250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	380		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		360	210	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	390		180	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	340		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	280		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	340		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		1800	720	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	1900		250	92	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		250	99	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		180	97	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	ND		180	140	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	370		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND		180	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		250	95	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		250	92	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	770		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	ND		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		180	100	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		250	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		180	110	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	280		250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		180	100	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	ND		250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		180	130	ug/Kg	1	02/28/18	DD	SW8270D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND	250	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	450	250	100	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND	250	110	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	660	250	120	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND	250	88	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	67			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	53			%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	43			%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	60			%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	50			%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	52			%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94520

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 9

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	2590	41	8.2	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	9.48	0.82	0.82	mg/Kg	1	02/27/18	MA	SW6010C
Barium	104	0.8	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	ND	0.33	0.16	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	1840	4.1	3.8	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	1.75	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	5.87	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	13.5	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Copper	53.1	0.41	0.41	mg/kg	1	02/27/18	MA	SW6010C
Iron	84600	41	41	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	0.17	0.15	0.09	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	370	8	3.2	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	566	4.1	4.1	mg/Kg	1	02/27/18	MA	SW6010C
Manganese	316	4.1	4.1	mg/Kg	10	02/27/18	MA	SW6010C
Sodium	128	8	3.5	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	11.1	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Lead	281	8.2	4.1	mg/Kg	10	02/27/18	MA	SW6010C
Antimony	ND	2.1	2.1	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND	1.6	1.4	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND	1.6	1.6	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	13.7	0.41	0.41	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	317	8.2	4.1	mg/Kg	10	02/27/18	MA	SW6010C
Percent Solid	82			%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed					02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed					02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed					02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed					02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 9

Phoenix I.D.: BZ94520

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1221	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1232	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1242	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1248	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1254	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1260	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1262	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
PCB-1268	ND	79	79	ug/Kg	2	03/01/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	87			%	2	03/01/18	AW	40 - 140 %
% TCMX	84			%	2	03/01/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	ND	2.4	2.4	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDE	ND	2.4	2.4	ug/Kg	2	03/01/18	CW	SW8081B
4,4' -DDT	ND	2.4	2.4	ug/Kg	2	03/01/18	CW	SW8081B
a-BHC	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
a-Chlordane	ND	4.0	4.0	ug/Kg	2	03/01/18	CW	SW8081B
Aldrin	ND	4.0	4.0	ug/Kg	2	03/01/18	CW	SW8081B
b-BHC	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Chlordane	ND	40	40	ug/Kg	2	03/01/18	CW	SW8081B
d-BHC	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Dieldrin	ND	4.0	4.0	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan I	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan II	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Endosulfan sulfate	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Endrin	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Endrin aldehyde	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Endrin ketone	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
g-BHC	ND	1.6	1.6	ug/Kg	2	03/01/18	CW	SW8081B
g-Chlordane	ND	4.0	4.0	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Heptachlor epoxide	ND	7.9	7.9	ug/Kg	2	03/01/18	CW	SW8081B
Methoxychlor	ND	40	40	ug/Kg	2	03/01/18	CW	SW8081B
Toxaphene	ND	160	160	ug/Kg	2	03/01/18	CW	SW8081B
QA/QC Surrogates								
% DCBP	86			%	2	03/01/18	CW	40 - 140 %
% TCMX	79			%	2	03/01/18	CW	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 9

Phoenix I.D.: BZ94520

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Hexanone	ND		31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	66	S	31	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		6.2	2.5	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	11	J	37	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		6.2	6.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Styrene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	7.1	J	12	3.1	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		12	3.1	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichloroethene	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		6.2	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	93				%	1	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	106				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		92	49	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	93				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	90				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		25	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		6.2	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		25	0.62	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		120	25	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		280	140	ug/Kg	1	02/28/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		280	220	ug/Kg	1	02/28/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dichlorophenol	ND		200	140	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dimethylphenol	ND		280	98	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrophenol	ND		280	280	ug/Kg	1	02/28/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		200	160	ug/Kg	1	02/28/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		200	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chloronaphthalene	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
2-Chlorophenol	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 9

Phoenix I.D.: BZ94520

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		280	190	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitroaniline	ND		280	280	ug/Kg	1	02/28/18	DD	SW8270D	
2-Nitrophenol	ND		280	250	ug/Kg	1	02/28/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		280	160	ug/Kg	1	02/28/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		200	190	ug/Kg	1	02/28/18	DD	SW8270D	
3-Nitroaniline	ND		390	790	ug/Kg	1	02/28/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		240	79	ug/Kg	1	02/28/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		280	140	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chloroaniline	ND		320	180	ug/Kg	1	02/28/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitroaniline	ND		390	130	ug/Kg	1	02/28/18	DD	SW8270D	
4-Nitrophenol	ND		390	180	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Acenaphthylene	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Acetophenone	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Aniline	ND		320	320	ug/Kg	1	02/28/18	DD	SW8270D	
Anthracene	ND		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benz(a)anthracene	170	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzidine	ND		390	230	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(a)pyrene	170	J	200	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(b)fluoranthene	150	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(ghi)perylene	140	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzo(k)fluoranthene	140	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Benzoic acid	ND		2000	790	ug/Kg	1	02/28/18	DD	SW8270D	
Benzyl butyl phthalate	ND		280	100	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		200	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Carbazole	ND		200	160	ug/Kg	1	02/28/18	DD	SW8270D	
Chrysene	160	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
Dibenzofuran	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Diethyl phthalate	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Dimethylphthalate	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-butylphthalate	ND		280	100	ug/Kg	1	02/28/18	DD	SW8270D	
Di-n-octylphthalate	ND		280	100	ug/Kg	1	02/28/18	DD	SW8270D	
Fluoranthene	300		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Fluorene	ND		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobenzene	ND		200	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorobutadiene	ND		280	140	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		280	120	ug/Kg	1	02/28/18	DD	SW8270D	
Hexachloroethane	ND		200	120	ug/Kg	1	02/28/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	130	J	280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Isophorone	ND		200	110	ug/Kg	1	02/28/18	DD	SW8270D	
Naphthalene	120	J	280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Nitrobenzene	ND		200	140	ug/Kg	1	02/28/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 9

Phoenix I.D.: BZ94520

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND		280	110	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND		200	130	ug/Kg	1	02/28/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND		280	150	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachloronitrobenzene	ND		280	150	ug/Kg	1	02/28/18	DD	SW8270D	
Pentachlorophenol	ND		240	150	ug/Kg	1	02/28/18	DD	SW8270D	
Phenanthrene	140	J	280	110	ug/Kg	1	02/28/18	DD	SW8270D	
Phenol	ND		280	130	ug/Kg	1	02/28/18	DD	SW8270D	
Pyrene	280		280	140	ug/Kg	1	02/28/18	DD	SW8270D	
Pyridine	ND		280	97	ug/Kg	1	02/28/18	DD	SW8270D	
QA/QC Surrogates										
% 2,4,6-Tribromophenol	80				%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	56				%	1	02/28/18	DD	30 - 130 %	
% 2-Fluorophenol	49				%	1	02/28/18	DD	30 - 130 %	
% Nitrobenzene-d5	62				%	1	02/28/18	DD	30 - 130 %	
% Phenol-d5	58				%	1	02/28/18	DD	30 - 130 %	
% Terphenyl-d14	63				%	1	02/28/18	DD	30 - 130 %	
Field Extraction	Completed						02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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:

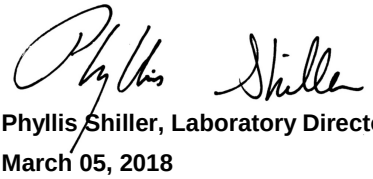
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 05, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94512
Phoenix ID: BZ94521

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Aluminum	3610		39	7.8	mg/Kg	10	02/27/18	MA	SW6010C
Arsenic	2.83		0.78	0.78	mg/Kg	1	02/27/18	MA	SW6010C
Barium	49.9		0.8	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Beryllium	0.21	J	0.31	0.16	mg/Kg	1	02/27/18	MA	SW6010C
Calcium	11300		3.9	3.6	mg/Kg	1	02/27/18	MA	SW6010C
Cadmium	ND		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Cobalt	3.22		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Chromium	13.6		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Copper	27.7		0.39	0.39	mg/kg	1	02/27/18	MA	SW6010C
Iron	11100		39	39	mg/Kg	10	02/27/18	MA	SW6010C
Mercury	ND		0.13	0.08	mg/Kg	1	02/27/18	RS	SW7471B
Potassium	602		8	3.0	mg/Kg	1	02/27/18	MA	SW6010C
Magnesium	5860		39	39	mg/Kg	10	02/27/18	MA	SW6010C
Manganese	127		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Sodium	136		8	3.4	mg/Kg	1	02/27/18	MA	SW6010C
Nickel	10.1		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Lead	291		7.8	3.9	mg/Kg	10	02/27/18	MA	SW6010C
Antimony	2.7		2.0	2.0	mg/Kg	1	02/27/18	MA	SW6010C
Selenium	ND		1.6	1.3	mg/Kg	1	02/27/18	MA	SW6010C
Thallium	ND		1.6	1.6	mg/Kg	1	02/27/18	MA	SW6010C
Vanadium	22.3		0.39	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Zinc	92.0		0.8	0.39	mg/Kg	1	02/27/18	MA	SW6010C
Percent Solid	89				%		02/26/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed						02/27/18	/V	SW3545A
Soil Extraction for Pesticides	Completed						02/27/18	/V	SW3545A
Soil Extraction for SVOA	Completed						02/27/18	JJ/CKV	SW3545A
Mercury Digestion	Completed						02/27/18	I/I	SW7471B

Ver 1

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Phoenix I.D.: BZ94521

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed					02/26/18	B/X/BF	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1221	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1232	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1242	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1248	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1254	110	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1260	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1262	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
PCB-1268	ND	73	73	ug/Kg	2	02/28/18	AW	SW8082A
QA/QC Surrogates								
% DCBP	68			%	2	02/28/18	AW	40 - 140 %
% TCMX	79			%	2	02/28/18	AW	40 - 140 %
Pesticides - Soil								
4,4' -DDD	7.1	3.3	3.3	ug/Kg	2	02/28/18	PS	SW8081B
4,4' -DDE	ND	2.2	2.2	ug/Kg	2	02/28/18	PS	SW8081B
4,4' -DDT	4.5	3.3	3.3	ug/Kg	2	02/28/18	PS	SW8081B
a-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
a-Chlordane	ND	3.7	3.7	ug/Kg	2	02/28/18	PS	SW8081B
Aldrin	ND	3.7	3.7	ug/Kg	2	02/28/18	PS	SW8081B
b-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Chlordane	ND	37	37	ug/Kg	2	02/28/18	PS	SW8081B
d-BHC	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Dieldrin	ND	3.7	3.7	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan I	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan II	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Endosulfan sulfate	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Endrin	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Endrin aldehyde	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Endrin ketone	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
g-BHC	ND	1.5	1.5	ug/Kg	2	02/28/18	PS	SW8081B
g-Chlordane	ND	3.7	3.7	ug/Kg	2	02/28/18	PS	SW8081B
Heptachlor	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Heptachlor epoxide	ND	7.3	7.3	ug/Kg	2	02/28/18	PS	SW8081B
Methoxychlor	ND	37	37	ug/Kg	2	02/28/18	PS	SW8081B
Toxaphene	ND	150	150	ug/Kg	2	02/28/18	PS	SW8081B
QA/QC Surrogates								
% DCBP	67			%	2	02/28/18	PS	40 - 140 %
% TCMX	69			%	2	02/28/18	PS	40 - 140 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	350	70	ug/Kg	50	03/01/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Phoenix I.D.: BZ94521

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,3-Trichloropropane	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dibromoethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichlorobenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
1,2-Dichloroethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
1,2-Dichloropropane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
1,3-Dichlorobenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
1,3-Dichloropropane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
1,4-Dichlorobenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
2,2-Dichloropropane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Chlorotoluene	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	
2-Hexanone	ND		30	6.0	ug/Kg	1	03/01/18	JLI	SW8260C	
2-Isopropyltoluene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	1
4-Chlorotoluene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
4-Methyl-2-pentanone	ND		30	6.0	ug/Kg	1	03/01/18	JLI	SW8260C	
Acetone	ND		30	6.0	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Benzene	2.8	J	6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromobenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
Bromochloromethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromodichloromethane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromoform	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Bromomethane	ND		6.0	2.4	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon Disulfide	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Carbon tetrachloride	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Chlorobenzene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloroform	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Chloromethane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,2-Dichloroethene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
cis-1,3-Dichloropropene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromochloromethane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dibromomethane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Dichlorodifluoromethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Ethylbenzene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Hexachlorobutadiene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
Isopropylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
m&p-Xylene	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl Ethyl Ketone	ND		36	6.0	ug/Kg	1	03/01/18	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND		12	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Methylene chloride	ND		6.0	6.0	ug/Kg	1	03/01/18	JLI	SW8260C	
Naphthalene	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	
n-Butylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
n-Propylbenzene	ND		350	70	ug/Kg	50	03/01/18	JLI	SW8260C	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Phoenix I.D.: BZ94521

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
o-Xylene	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
p-Isopropyltoluene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
sec-Butylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
Styrene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
tert-Butylbenzene	ND		350	35	ug/Kg	50	03/01/18	JLI	SW8260C	
Tetrachloroethene	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Tetrahydrofuran (THF)	6.1	J	12	3.0	ug/Kg	1	03/01/18	JLI	SW8260C	1
Toluene	0.99	J	6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,2-Dichloroethene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND		700	180	ug/Kg	50	03/01/18	JLI	SW8260C	
Trichloroethene	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorofluoromethane	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Vinyl chloride	ND		6.0	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	96				%	50	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	97				%	50	03/01/18	JLI	70 - 130 %	
% Dibromofluoromethane	110				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	82				%	1	03/01/18	JLI	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		89	48	ug/kg	1	03/01/18	JLI	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	03/01/18	JLI	70 - 130 %	
% Bromofluorobenzene	75				%	1	03/01/18	JLI	70 - 130 %	
% Toluene-d8	82				%	1	03/01/18	JLI	70 - 130 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		24	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrolein	ND		6.0	1.2	ug/Kg	1	03/01/18	JLI	SW8260C	
Acrylonitrile	ND		24	0.60	ug/Kg	1	03/01/18	JLI	SW8260C	
Tert-butyl alcohol	ND		120	24	ug/Kg	1	03/01/18	JLI	SW8260C	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
1,2,4-Trichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Dichlorobenzene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
1,2-Diphenylhydrazine	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
1,3-Dichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
1,4-Dichlorobenzene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,5-Trichlorophenol	ND		250	200	ug/Kg	1	02/27/18	DD	SW8270D	
2,4,6-Trichlorophenol	ND		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dichlorophenol	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dimethylphenol	ND		250	90	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrophenol	ND		250	250	ug/Kg	1	02/27/18	DD	SW8270D	
2,4-Dinitrotoluene	ND		180	140	ug/Kg	1	02/27/18	DD	SW8270D	
2,6-Dinitrotoluene	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chloronaphthalene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
2-Chlorophenol	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Phoenix I.D.: BZ94521

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
2-Methylnaphthalene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
2-Methylphenol (o-cresol)	ND		250	170	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitroaniline	ND		250	250	ug/Kg	1	02/27/18	DD	SW8270D	
2-Nitrophenol	ND		250	230	ug/Kg	1	02/27/18	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND		250	140	ug/Kg	1	02/27/18	DD	SW8270D	1
3,3'-Dichlorobenzidine	ND		180	170	ug/Kg	1	02/27/18	DD	SW8270D	
3-Nitroaniline	ND		360	730	ug/Kg	1	02/27/18	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND		220	73	ug/Kg	1	02/27/18	DD	SW8270D	
4-Bromophenyl phenyl ether	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloro-3-methylphenol	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chloroaniline	ND		290	170	ug/Kg	1	02/27/18	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitroaniline	ND		360	120	ug/Kg	1	02/27/18	DD	SW8270D	
4-Nitrophenol	ND		360	160	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Acenaphthylene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Acetophenone	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Aniline	ND		290	290	ug/Kg	1	02/27/18	DD	SW8270D	
Anthracene	160	J	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benz(a)anthracene	420		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzidine	ND		360	210	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(a)pyrene	410		180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(b)fluoranthene	400		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(ghi)perylene	300		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzo(k)fluoranthene	360		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Benzoic acid	ND		1800	730	ug/Kg	1	02/27/18	DD	SW8270D	
Benzyl butyl phthalate	ND		250	94	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroethyl)ether	ND		180	98	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Carbazole	ND		180	150	ug/Kg	1	02/27/18	DD	SW8270D	
Chrysene	420		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenz(a,h)anthracene	160	J	180	120	ug/Kg	1	02/27/18	DD	SW8270D	
Dibenzofuran	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Diethyl phthalate	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Dimethylphthalate	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-butylphthalate	ND		250	97	ug/Kg	1	02/27/18	DD	SW8270D	
Di-n-octylphthalate	ND		250	94	ug/Kg	1	02/27/18	DD	SW8270D	
Fluoranthene	1000		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Fluorene	ND		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobenzene	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorobutadiene	ND		250	130	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	1	02/27/18	DD	SW8270D	
Hexachloroethane	ND		180	110	ug/Kg	1	02/27/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	340		250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Isophorone	ND		180	100	ug/Kg	1	02/27/18	DD	SW8270D	
Naphthalene	ND		250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Nitrobenzene	ND		180	130	ug/Kg	1	02/27/18	DD	SW8270D	

Project ID: BEACH 62ND ST., QUEENS, NY
Client ID: SB 10

Phoenix I.D.: BZ94521

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
N-Nitrosodimethylamine	ND	250	100	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	180	120	ug/Kg	1	02/27/18	DD	SW8270D	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachloronitrobenzene	ND	250	140	ug/Kg	1	02/27/18	DD	SW8270D	
Pentachlorophenol	ND	220	140	ug/Kg	1	02/27/18	DD	SW8270D	
Phenanthrene	700	250	100	ug/Kg	1	02/27/18	DD	SW8270D	
Phenol	ND	250	120	ug/Kg	1	02/27/18	DD	SW8270D	
Pyrene	860	250	130	ug/Kg	1	02/27/18	DD	SW8270D	
Pyridine	ND	250	90	ug/Kg	1	02/27/18	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	84			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorobiphenyl	66			%	1	02/27/18	DD	30 - 130 %	
% 2-Fluorophenol	52			%	1	02/27/18	DD	30 - 130 %	
% Nitrobenzene-d5	75			%	1	02/27/18	DD	30 - 130 %	
% Phenol-d5	62			%	1	02/27/18	DD	30 - 130 %	
% Terphenyl-d14	65			%	1	02/27/18	DD	30 - 130 %	
Field Extraction	Completed					02/23/18		SW5035A	1

1 = This parameter is not certified by 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 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.

Pesticide Comment:
A dilution of the pesticide extract was necessary due to matrix interference caused by the presence of PCBs in the sample, the requested criteria could not be met for all pesticide compounds.

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.

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

Phyllis Shiller, Laboratory Director
March 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Monday, March 05, 2018

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

State: NY

Sample Criteria Exceedances Report

GBZ94512 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ94512	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1100	270	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	270	500	500	ug/Kg
BZ94512	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1200	190	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	190	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	500	500	ug/Kg
BZ94512	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	500	500	ug/Kg
BZ94512	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	190	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
BZ94512	$8270SMRDP	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	920	270	800	800	ug/Kg
BZ94512	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
BZ94512	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	23.8	0.69	16	16	mg/Kg
BZ94512	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	23.8	0.69	16	16	mg/Kg
BZ94512	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	23.8	0.69	16	16	mg/Kg
BZ94512	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	23.8	0.69	13	13	mg/Kg
BZ94512	BA-SMDP	Barium	NY / 375-6.8 Metals / Ground Water Protection	1790	6.9	820	820	mg/Kg
BZ94512	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	1790	6.9	350	350	mg/Kg
BZ94512	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential Restricted	1790	6.9	400	400	mg/Kg
BZ94512	BA-SMDP	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	1790	6.9	350	350	mg/Kg
BZ94512	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.95	0.35	2.5	2.5	mg/Kg
BZ94512	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.95	0.35	2.5	2.5	mg/Kg
BZ94512	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	246	3.5	50	50	mg/kg
BZ94512	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.19	0.14	0.18	0.18	mg/Kg
BZ94512	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	34.8	0.35	30	30	mg/Kg
BZ94512	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	1590	69	450	450	mg/Kg
BZ94512	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	1590	69	400	400	mg/Kg
BZ94512	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	1590	69	400	400	mg/Kg
BZ94512	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1590	69	63	63	mg/Kg
BZ94512	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	1130	6.9	109	109	mg/Kg
BZ94513	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	68.7	0.8	63	63	mg/Kg
BZ94514	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.5	2.2	3.3	3.3	ug/Kg
BZ94514	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.23	0.15	0.18	0.18	mg/Kg
BZ94514	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	80.7	0.7	63	63	mg/Kg
BZ94515	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	570	270	500	500	ug/Kg
BZ94515	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	570	270	500	500	ug/Kg
BZ94515	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	570	270	500	500	ug/Kg
BZ94515	$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	130	23	3.3	3.3	ug/Kg
BZ94515	$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	49	2.3	3.3	3.3	ug/Kg

Monday, March 05, 2018

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

State: NY

Sample Criteria Exceedances Report

GBZ94512 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ94515	AG-SM	Silver	NY / 375-6.8 Metals / Unrestricted Use Soil	4.04	0.35	2	2	mg/Kg
BZ94515	AS-SM	Arsenic	NY / 375-6.8 Metals / Ground Water Protection	30.2	0.70	16	16	mg/Kg
BZ94515	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	30.2	0.70	16	16	mg/Kg
BZ94515	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	30.2	0.70	16	16	mg/Kg
BZ94515	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	30.2	0.70	13	13	mg/Kg
BZ94515	CU-SM	Copper	NY / 375-6.8 Metals / Residential	384	3.5	270	270	mg/kg
BZ94515	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	384	3.5	270	270	mg/kg
BZ94515	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	384	3.5	50	50	mg/kg
BZ94515	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.45	0.14	0.18	0.18	mg/Kg
BZ94515	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	220	7.0	63	63	mg/Kg
BZ94515	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	228	7.0	109	109	mg/Kg
BZ94516	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	86.0	0.7	63	63	mg/Kg
BZ94517	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1500	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1700	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1200	200	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1700	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	700	270	500	500	ug/Kg
BZ94517	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1500	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1200	200	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	700	270	500	500	ug/Kg
BZ94517	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	700	270	500	500	ug/Kg
BZ94517	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	270	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	200	1000	1000	ug/Kg
BZ94517	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	270	1000	1000	ug/Kg
BZ94517	$PESTSMDPR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.4	3.9	5	5	ug/Kg
BZ94517	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.9	3.3	3.3	3.3	ug/Kg
BZ94517	$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	27	2.4	3.3	3.3	ug/Kg
BZ94517	$PESTSMDPR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.0	3.3	3.3	3.3	ug/Kg
BZ94517	BA-SMDP	Barium	NY / 375-6.8 Metals / Residential	359	0.7	350	350	mg/Kg
BZ94517	BA-SMDP	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	359	0.7	350	350	mg/Kg
BZ94517	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	60.7	0.36	50	50	mg/kg
BZ94517	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.26	0.14	0.18	0.18	mg/Kg
BZ94517	PB-SMDP	Lead	NY / 375-6.8 Metals / Ground Water Protection	657	7.2	450	450	mg/Kg
BZ94517	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	657	7.2	400	400	mg/Kg
BZ94517	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	657	7.2	400	400	mg/Kg
BZ94517	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	657	7.2	63	63	mg/Kg
BZ94517	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	376	7.2	109	109	mg/Kg
BZ94518	$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Ground Water Protection	86	310	60	60	ug/Kg
BZ94518	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	120	27	50	50	ug/Kg

Monday, March 05, 2018

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

State: NY

Sample Criteria Exceedances Report

GBZ94512 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ94518	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	120	27	50	50	ug/Kg
BZ94518	$8260MADPR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	86	310	60	60	ug/Kg
BZ94518	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1300	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Ground Water Protection	1400	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1300	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1400	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	540	260	500	500	ug/Kg
BZ94518	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	540	260	500	500	ug/Kg
BZ94518	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	540	260	500	500	ug/Kg
BZ94518	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	260	1000	1000	ug/Kg
BZ94518	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	260	1000	1000	ug/Kg
BZ94518	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	79.3	0.7	63	63	mg/Kg
BZ94519	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	99	32	50	50	ug/Kg
BZ94519	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	99	32	50	50	ug/Kg
BZ94519	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	89.5	0.7	63	63	mg/Kg
BZ94520	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Ground Water Protection	66	31	50	50	ug/Kg
BZ94520	$8260MADPR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	66	31	50	50	ug/Kg
BZ94520	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	53.1	0.41	50	50	mg/kg
BZ94520	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	281	8.2	63	63	mg/Kg
BZ94520	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	317	8.2	109	109	mg/Kg
BZ94521	$PCB_SMRDP	PCB-1254	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	110	73	100	100	ug/Kg
BZ94521	$PESTSMDPR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	7.1	3.3	3.3	3.3	ug/Kg
BZ94521	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.5	3.3	3.3	3.3	ug/Kg
BZ94521	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	291	7.8	63	63	mg/Kg

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

NY Temperature Narration

March 05, 2018

SDG I.D.: GBZ94512

The samples in this delivery group were received at 2.4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]
Temp 2.1 °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: Beach 62nd st, Queens, 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: Hongpeng Lan Date: 2/23/18

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	PCBs/Pesticides	TAL Metals	Soil VOA Vials	Soil VOA Vials H2O	GL Soil container [ ] methanol	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
94512	SB 1	S	2/23/18		X	X	X	X	2	1	1								
94513	SB 2	S			X	X	X	X	2	1	1								
94514	SB 3	S			X	X	X	X	2	1	1								
94515	SB 4	S			X	X	X	X	2	1	1								
94516	SB 5	S			X	X	X	X	2	1	1								
94517	SB 6	S			X	X	X	X	2	1	1								
94518	SB 7	S			X	X	X	X	2	1	1								
94519	SB 8	S			X	X	X	X	2	1	1								
94520	SB 9	S			X	X	X	X	2	1	1								
94521	SB 10	S			X	X	X	X	2	1	1								

Relinquished by:	Accepted by:	Date:	Time:
		2/26/18	10:30
	Donald Le	2/26/18	1320

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[X] 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
[ ] 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
[X] EQuIS
[ ] NJ Hazsite EDD
[X] NY EZ EDD (ASP)
[ ] Other

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

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Tuesday, February 27, 2018

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

Project ID: BEACH 62ND ST., QUEENS
Sample ID#s: BZ94522 - BZ94526

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

NY # 11301

SDG Comments

February 27, 2018

SDG I.D.: GBZ94522

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.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

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

February 27, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94522
Phoenix ID: BZ94522

Project ID: BEACH 62ND ST., QUEENS
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	02/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW1

Phoenix I.D.: BZ94522

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	6.9	S	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Benzene	0.84		0.70	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon Disulfide	0.35	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/26/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	1
Toluene	0.33	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	102				%	1	02/26/18	MH	70 - 130 %	
% Bromofluorobenzene	94				%	1	02/26/18	MH	70 - 130 %	
% Dibromofluoromethane	115				%	1	02/26/18	MH	70 - 130 %	

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW1

Phoenix I.D.: BZ94522

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	94			%	1	02/26/18	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

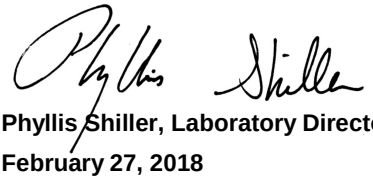
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab 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
February 27, 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

February 27, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94522
Phoenix ID: BZ94523

Project ID: BEACH 62ND ST., QUEENS
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	02/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW2

Phoenix I.D.: BZ94523

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	5.0	JS	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Benzene	0.91		0.70	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/26/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	1
Toluene	0.46	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	02/26/18	MH	70 - 130 %	
% Bromofluorobenzene	94				%	1	02/26/18	MH	70 - 130 %	
% Dibromofluoromethane	114				%	1	02/26/18	MH	70 - 130 %	

Ver 1

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW2

Phoenix I.D.: BZ94523

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95			%	1	02/26/18	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

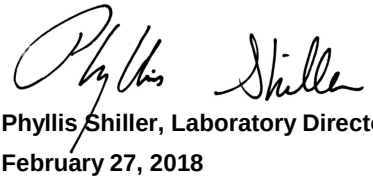
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab 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
February 27, 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

February 27, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94522
Phoenix ID: BZ94524

Project ID: BEACH 62ND ST., QUEENS
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	02/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW3

Phoenix I.D.: BZ94524

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	02/26/18	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	2.0	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	104			%	1	02/26/18	MH	70 - 130 %	
% Bromofluorobenzene	96			%	1	02/26/18	MH	70 - 130 %	
% Dibromofluoromethane	110			%	1	02/26/18	MH	70 - 130 %	

Ver 1

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW3

Phoenix I.D.: BZ94524

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95			%	1	02/26/18	MH	70 - 130 %

1 = This parameter is not certified by 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 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.
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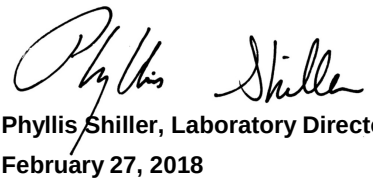


Phyllis Shiller, Laboratory Director

February 27, 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

February 27, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94522
Phoenix ID: BZ94525

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW4

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	02/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	

Ver 1

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW4

Phoenix I.D.: BZ94525

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.3	JS	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon Disulfide	0.30	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/26/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.32	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	101				%	1	02/26/18	MH	70 - 130 %	
% Bromofluorobenzene	94				%	1	02/26/18	MH	70 - 130 %	
% Dibromofluoromethane	112				%	1	02/26/18	MH	70 - 130 %	

Ver 1

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW4

Phoenix I.D.: BZ94525

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95			%	1	02/26/18	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

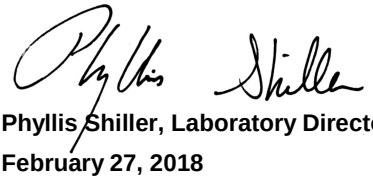
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab 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
February 27, 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

February 27, 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:	HL	02/23/18	
Location Code:	EBC	Received by:	LB	02/26/18	13:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBZ94522
Phoenix ID: BZ94526

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW5

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	02/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW5

Phoenix I.D.: BZ94526

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.5	JS	5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Ethylbenzene	0.27	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/26/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	02/26/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/26/18	MH	SW8260C	1
Toluene	0.32	J	1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/26/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	02/26/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	02/26/18	MH	70 - 130 %	
% Bromofluorobenzene	96				%	1	02/26/18	MH	70 - 130 %	
% Dibromofluoromethane	111				%	1	02/26/18	MH	70 - 130 %	

Ver 1

Project ID: BEACH 62ND ST., QUEENS
Client ID: GW5

Phoenix I.D.: BZ94526

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93			%	1	02/26/18	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

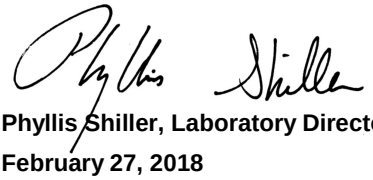
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab 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
February 27, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Tuesday, February 27, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GBZ94522 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ94522	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	0.84	0.70	0.7	0.7	ug/L
BZ94522	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
BZ94522	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
BZ94522	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
BZ94523	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	0.91	0.70	0.7	0.7	ug/L
BZ94523	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
BZ94523	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
BZ94523	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
BZ94524	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
BZ94524	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
BZ94524	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
BZ94525	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
BZ94525	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
BZ94525	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
BZ94526	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
BZ94526	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
BZ94526	$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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

February 27, 2018

SDG I.D.: GBZ94522

The samples in this delivery group were received at 2.4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]

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

Temp 2.4 °C Pg 1 of 1

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

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

Project: Beach 62nd St, Queens, 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: Hongyang Cao Date: 2/23/18

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] 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
945202	GW 1	GW	2/23/18		X			3						
945203	GW 2	GW			X			3						
945204	GW 3	GW			X			3						
945205	GW 4	GW			X			3						
945206	GW 5	GW	↓		X			3						

Relinquished by:	Accepted by:	Date:	Time:
		2/26/18	10:50
	Caroline	2/26/18	1320

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
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

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

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

State where samples were collected: NY

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